



Tools for migrating to the AWS Cloud

# AWS Prescriptive Guidance



# **AWS Prescriptive Guidance: Tools for migrating to the AWS Cloud**

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# Tools for migrating to the AWS Cloud

## *Amazon Web Services*

In a rapidly evolving digital landscape, organizations are increasingly turning to the AWS Cloud to achieve greater agility, scalability, and cost-effectiveness. To facilitate this transition, AWS and AWS Partners offer a comprehensive suite of tools and services designed to simplify and accelerate every phase of the cloud migration journey. From initial discovery and planning to the actual movement of applications and data, these purpose-built tools help you minimize risk, reduce costs, and maintain business continuity throughout the migration.

This guide describes tools for four critical aspects of any cloud migration: discovery and planning, business case analysis, application mobility, and data mobility. By using these tools, you can systematically discover and assess your IT assets, build compelling business cases based on precise TCO analyses, and efficiently and securely move applications and data to AWS. Whether you're planning to rehost, refactor, or modernize your applications, these tools provide the automation and guidance needed to execute your migration strategy successfully:

- [Discovery, planning, and recommendation](#) – Discover IT assets across your application portfolio, and identify dependencies and requirements.
- [Business case analysis](#) – Use total cost of ownership (TCO) analysis to determine target resource types and sizes for running workloads on AWS with the lowest cost possible.
- [Application mobility](#) – Capture resource information about the host server, configuration, storage, network state, application language, and frameworks. Then provision, configure, rehost, refactor, and automatically convert application code based on your migration and modernization approach.
- [Data mobility](#) – Transfer data and databases from multiple sources into target AWS resources.

# Discovery, planning, and recommendation migration tools

When planning a migration to the AWS Cloud, you can use AWS services and AWS Partner tools to accelerate the discovery, assessment, and planning process. These services can help you gather detailed information about your on-premises infrastructure, application dependencies, and utilization patterns. AWS Application Discovery Service and Migration Evaluator are AWS services that provide discovery capabilities at no charge. Many AWS Partners offer tools that provide additional discovery features that can meet the specific needs of your use case.

This section is intended to help you choose the most appropriate tool for your situation. If specific features or capabilities are critical to your use case, you can use the filter categories and attributes available on [Discovery, Planning, and Recommendation migration tools](#) in order to view only the tools that match your criteria.

**This section describes the following discovery, planning, and recommendation tools and their capabilities:**

- [AppDynamics](#)
- [AveriSource Analyze](#)
- [AWS Application Discovery Service](#)
- [BMC Helix Discovery](#)
- [CAST Highlight](#)
- [CAST Imaging](#)
- [Cloudamize](#)
- [Concierto.cloud](#)
- [CloudSphere Cyber Asset Management Platform](#)
- [Corent SurPaas MaaS](#)
- [Datadog](#)
- [Device42](#)
- [Dynatrace](#)
- [Flexera Cloud Migration and Modernization](#)
- [Matilda Discover](#)

- [Migration Evaluator](#)
- [modelizeIT](#)
- [New Relic One](#)
- [Tidal Accelerator](#)
- [Turbonomic](#)
- [vFunction](#)
- [Virtana](#)

## AppDynamics

*Last update: May 15, 2023*

### Notice

AWS Partner product descriptions and reported qualifications, including compliance, are provided by the AWS Partner and are not verified by AWS. For more information about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

## Product overview

Category	Product capabilities
Product website	<a href="#">Cisco AppDynamics</a>
Product certifications	AWS Migration and Modernization – Application Monitoring and Orchestration
<a href="#">AWS Competency Program</a> competencies and other certifications	
AWS Marketplace	Not available
Link to subscribe or download	

Category	Product capabilities
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• Federal Risk and Authorization Management Program (FedRAMP)</li> <li>• General Data Protection Regulation (GDPR)</li> <li>• Payment card industry (PCI)</li> </ul>
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<b>Discovery method</b>  The ability to support one or more of the following discovery methods: <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	Agent-based

Category	Product capabilities
<ul style="list-style-type: none"> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Software processes</li> <li>• Containers</li> </ul>
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Linux</li> <li>• Windows</li> <li>• Solaris</li> </ul>
<p><b>Other resources discoverable</b></p>	<p>No additional information</p>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<p>Physical and virtual servers and their profiles</p>
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such as peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Network utilization data collection</li> </ul>

Category	Product capabilities
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and server dependency</li> <li>• Application and software process dependency</li> <li>• Application and code dependency</li> </ul>
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> <li>• Single application and its software processes</li> <li>• Single application and its programming code</li> </ul>

Category	Product capabilities
<b>Database details discovery, source database system</b>	<ul style="list-style-type: none"><li>• Database engine</li><li>• Database editions</li><li>• Schemas</li><li>• Database size</li><li>• Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li></ul>
<b>Storage details discovery</b>  The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata	Not available
<b>File system details discovery</b>	Not available
<b>Software details discovery</b>	Not available
<b>Container details discovery</b>	<ul style="list-style-type: none"><li>• Amazon Elastic Kubernetes Service (Amazon EKS)</li><li>• Azure Kubernetes Service</li><li>• Docker</li><li>• Google Kubernetes Engine</li><li>• Kubernetes</li><li>• Red Hat OpenShift</li><li>• Rancher</li></ul>
<b>License discovery</b>	Not available

Category	Product capabilities
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Not available
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Not available

## AveriSource Analyze

*Last update: October 22, 2024*

### Notice

AWS Partner product descriptions and reported qualifications, including compliance, are provided by the AWS Partner and are not verified by AWS. For more information about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">AveriSource Analyze</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation

Category	Product capabilities
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">AveriSource Platform on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	Servers deployed on premises in customer environment
<b>Compliance</b>	508 Compliance
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<b>Discovery method</b>  The ability to support one or more of the following discovery methods: <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	<ul style="list-style-type: none"> <li>• Agent-based</li> <li>• Login-based</li> </ul>

Category	Product capabilities
<ul style="list-style-type: none"> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	Not available
<p><b>Operating systems discoverable</b></p>	Not available
<p><b>Other resources discoverable</b></p>	Application resources through source code
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	Not available
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	Not available

Category	Product capabilities
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and software process dependency</li> <li>• Application and code dependency</li> </ul>
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> <li>• Single application and its software processes</li> <li>• Single application and its programming code</li> </ul>

Category	Product capabilities
<b>Database details discovery, source database system</b>	Schemas
<b>Database details discovery, database type</b>	<ul style="list-style-type: none"> <li>• ADABAS</li> <li>• IBM Db2</li> <li>• IBM Information Management System (IMS)</li> <li>• Integrated Database Management System (IDMS)</li> <li>• Virtual Storage Access Method (VSAM)</li> <li>• Sequential</li> </ul>
<b>Storage details discovery</b>  The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata	Not available
<b>Storage systems discoverable</b>  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Not available
<b>File system details discovery</b>	Available
<b>Software details discovery, programming languages</b>	COBOL, RPG, Assembler, JCL, BMS, MFS, CL, DDS, PL/I, Natural, Model 204, ObjectStar, Easytrieve, SAS. Total # of languages supported = 17.
<b>Software details discovery, frameworks or libraries</b>	IBM WebSphere MQ

Category	Product capabilities
<p><b>Software details discovery, ISV products</b></p> <p>The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition</p>	<p>IBM platform utilities and third-party products: ~100+ total discoverable</p>
<p><b>Container details discovery</b></p>	<p>Not available</p>
<p><b>License discovery</b></p>	<p>Not available</p>
<p><b>Data sovereignty support</b></p> <p>The ability to keep discovered data within a specific geographic region</p>	<p>Available</p>
<p><b>Data export ability</b></p> <p>The ability to export the discovered data into a usable format, such as CSV or JSON</p>	<p>Available</p>
<p><b>Code analysis</b></p> <p>The ability to support static and dynamic code analysis, optionally identifying:</p> <ul style="list-style-type: none"> <li>• Deprecated code</li> <li>• Security concerns in code</li> <li>• Resilience concerns in code</li> </ul>	<ul style="list-style-type: none"> <li>• Deprecated code</li> <li>• Other: data access, code flow, business rules, variable tracing, dependencies, flowcharts</li> </ul>
<p><b>Pipeline integration</b></p> <p>The ability to integrate with CI/CD pipelines for continuous code analysis</p>	<p>Not available</p>

Category	Product capabilities
<p><b>Service discovery, mapping</b></p> <p>The ability to automate service discovery mapping, which identifies the underlying services, dependencies, and communication patterns (including to external resources, such as SaaS providers)</p>	Not available
<p><b>Service discovery, recommendations</b></p> <p>The ability to suggest optimizations for discovered services</p>	Not available
<p><b>Monolith decomposition, identification</b></p> <p>The ability to identify candidate microservices, given classes, objects, functions, and stored procedures</p>	Available
<p><b>Monolith decomposition, impact analysis</b></p> <p>The ability to analyze the impact of the decomposition process</p>	Available
<p><b>Open source compliance analysis, identification</b></p> <p>The ability to identify non-compliant open source solutions within an application</p>	Not available
<p><b>Open source compliance analysis, recommendations</b></p> <p>The ability to suggest compliant alternatives or remediation steps</p>	Not available

Category	Product capabilities
<p><b>Framework migration, standard</b></p> <p>The ability to support framework migrations, such as Spring to Spring Boot or .NET Framework to .NET 6+</p>	Not available
<p><b>Framework migration, legacy</b></p> <p>The ability to migrate legacy frameworks, databases, or data formats during framework migrations</p>	Available
<p><b>Environmental impact analysis</b></p> <p>The ability to provide guidance about the sustainability of applications, such as before and after a migration</p>	Not available
<p><b>Cost of change analysis, effort</b></p> <p>The ability to estimate the effort required to modernize an application</p>	Available
<p><b>Cost of change analysis, architecture</b></p> <p>The ability to estimate the target architecture costs after modernizing an application</p>	Not available
<p><b>Predictive outcome analysis</b></p> <p>The ability to rate modernization outcomes based on aggregated, anonymized data, such as the risk of change, the effort of change, and a confidence level that the change will be successful</p>	Not available

Category	Product capabilities
<b>Weighted analysis, preferences</b>  The ability to weight preferences for modernization recommendations based on considerations such as performance, resilience, and cost	Not available
<b>Weighted analysis, organizational priorities</b>  The ability to customize and adjust weights as organizational priorities change	Not available

## AWS Application Discovery Service

*Last update: May 15, 2023*

### Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">AWS Application Discovery Service</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on premises in customer environment</li> </ul>
<b>Compliance</b>	Not available
<b>Service model</b>	Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support

Category	Product capabilities
<b>Pricing model</b>	No charge

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<p><b>Discovery method</b></p> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Agent-based</li> <li>• Login-based</li> </ul>
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Software processes</li> </ul>
<b>Operating systems discoverable</b>	<ul style="list-style-type: none"> <li>• Linux</li> <li>• Windows</li> </ul>
<b>Other resources discoverable</b>	No additional information
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of</p>	<ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> </ul>

Category	Product capabilities
<p>CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> </ul>
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> <li>• Network utilization data collection</li> </ul>
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<p>Application and server dependency</p>

Category	Product capabilities
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> </ul>
<p><b>Database details discovery, source database system</b></p>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Schemas</li> <li>• Database size</li> <li>• Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
<p><b>Database details discovery, database type</b></p>	<ul style="list-style-type: none"> <li>• Microsoft SQL Server</li> <li>• MySQL</li> <li>• Oracle</li> <li>• PostgreSQL</li> </ul>
<p><b>Storage details discovery, systems</b></p>	<p>Local storage</p>

Category	Product capabilities
<b>Storage details discovery, utilization</b>	<ul style="list-style-type: none"> <li>• Mean (average) IOPS</li> <li>• Peak IOPS</li> <li>• Mean (average) throughput (MB per second)</li> <li>• Peak throughput (MB per second)</li> </ul>
<b>File system details discovery</b>	Not available
<b>Software details discovery</b>	Not available
<b>Container details discovery</b>	Not available
<b>License discovery</b>	Not available
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Not available
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## BMC Helix Discovery

*Last update: May 15, 2023*

### Notice

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about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">BMC Helix Discovery</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">BMC Helix on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• Health Insurance Portability and Accountability Act (HIPAA)</li> <li>• Payment card industry (PCI)</li> <li>• System and Organization Controls (SOC)</li> </ul>
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<p><b>Discovery method</b></p> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Login-based</li> </ul>
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Storage systems</li> <li>• Network devices</li> <li>• Software processes</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>• Containers</li> <li>• Mainframe</li> </ul>
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Linux – CentOS, Debian GNU/Linux, Fedora Linux, Gentoo Linux, Oracle, Red Hat Enterprise Linux (RHEL), Scientific Linux, SUSE, Ubuntu</li> <li>• Windows – Windows NT, Windows Server 2000 to 2019</li> <li>• HP – HP-UX, OpenVMS, Tru64 UNIX</li> <li>• IBM – IBM AIX, IBMi, Power HMC, VIO</li> <li>• VMware – VMware ESX Server, VMware ESXi Server, VMware vCenter</li> <li>• Other – FreeBSD, Novell NetWare, OpenBSD, Oracle VM Server, Solaris</li> </ul>
<p><b>Other resources discoverable</b></p>	<ul style="list-style-type: none"> <li>• Hyper-converged infrastructure</li> <li>• Load balancers</li> <li>• Management controllers</li> <li>• Software-defined networks</li> <li>• Software-defined storage</li> </ul>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>• Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> <li>• Network devices and profiles</li> </ul>

Category	Product capabilities
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<p>Not available</p>
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and server dependency</li> <li>• Application and software process dependency</li> </ul>

Category	Product capabilities
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> <li>• Single application and its software processes</li> </ul>
<p><b>Database details discovery, source database system</b></p>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Schemas</li> <li>• Database size</li> <li>• Number of partitions</li> <li>• Clustering and servers in the cluster</li> <li>• Backups</li> <li>• Failover configuration (active-active, active-standby)</li> </ul>
<p><b>Storage details discovery, systems</b></p>	<p>Storage Area Network (SAN)</p>

Category	Product capabilities
<b>Storage details discovery, types</b>  The ability to discover storage system types and access protocols	<ul style="list-style-type: none"><li>• File storage (for example, NFS or SMB)</li><li>• Block storage (for example, Fiber Channel or iSCSI)</li><li>• Object storage (for example, Atmos, Vantara, HTTP, or REST)</li></ul>
<b>Storage details discovery, capacity</b>	Volume identifier and volume size (GB)
<b>Storage details discovery, configuration</b>	Relationships among disk, array, LUN, and VM
<b>Storage details discovery, utilization</b>	Not available
<b>Storage details discovery, object metadata</b>	Object type (for example, text file, image, database data)

Category	Product capabilities
<p><b>Storage systems discoverable</b></p> <p>The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage</p>	<ul style="list-style-type: none"> <li>• Cisco HyperFlex</li> <li>• Dell Compellent, EMC Isilon, Dell EqualLogic</li> <li>• EMC Celerra/VNX(NAS) and eNAS, EMC Data Domain, EMC RecoverPoint, EMC Unity, EMC VMAX, EMC VNXe 3200, EMC VPLEX, EMC XtremIO</li> <li>• Fujitsu ETERNUS DS</li> <li>• Hitachi HCP, Hitachi HDI, Hitachi HNAS, Hitachi VSP</li> <li>• HPE 3PAR, HP P2000, HP P6000 (EVA), HP P9000/P9500, HPE XP7, HPE XP8</li> <li>• Huawei Dorado (V3, V6), Huawei OceanStor (V3, V5, 9000)</li> <li>• IBM DS6000, IBM DS8000, IBM FlashSystem, IBM SVC/Storwize, IBM XIV</li> <li>• NetApp, NetApp E-Series, NetApp SolidFire</li> <li>• Other – Nimble, Nutanix, Oracle ZFS, Pure FlashArray, VMware vSAN</li> </ul>
<p><b>File system details discovery</b></p>	<ul style="list-style-type: none"> <li>• File system types (for example, disk, tape)</li> <li>• File system configuration (for example, clustering, mount point)</li> <li>• Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
<p><b>Software details discovery, frameworks or libraries</b></p>	<p>Apache Tomcat, IBM WebSphere, Microsoft IIS, Oracle GlassFish, Oracle WebLogic, Oracle Application Server, PostgreSQL, Red Hat JBoss, Sybase, Teradata, and around 2,500 software instance types</p>

Category	Product capabilities
<p><b>Software details discovery, tools</b></p>	<p>BMC Remedy, BMC TrueSight, CA Spectrum, Chef, Dynatrace, Flexera, HP OpenView, IBM Tivoli, Microsoft SCCM, New Relic, and hundreds more</p>
<p><b>Software details discovery, ISV products</b></p> <p>The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition</p>	<p>Name, edition, and version</p>
<p><b>Container details discovery</b></p>	<ul style="list-style-type: none"> <li>• Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• Azure Kubernetes Service</li> <li>• CRI-O</li> <li>• Docker</li> <li>• Google Kubernetes Engine</li> <li>• Kubernetes</li> <li>• Red Hat OpenShift</li> <li>• Rocket</li> </ul>
<p><b>License discovery</b></p>	<p>Not available</p>
<p><b>Data sovereignty support</b></p> <p>The ability to keep discovered data within a specific geographic region</p>	<p>Available</p>
<p><b>Data export ability</b></p> <p>The ability to export the discovered data into a usable format, such as CSV or JSON</p>	<p>Available</p>

# CAST Highlight

Last update: October 22, 2024

## Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">CAST Highlight</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">CAST Highlight on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	SaaS-based
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• International Organization for Standardization (ISO) 27001, 27017, 27018, and 27701</li> </ul>

Category	Product capabilities
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<b>Discovery method</b> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	Agent-based

Category	Product capabilities
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	Not available
<p><b>Operating systems discoverable</b></p>	Not available
<p><b>Other resources discoverable</b></p>	<p>CAST Highlight scans application source code and discovers a broad scope of insights such as cloud maturity, cloud blockers for migration and modernization (from customer premises to AWS, from other cloud to AWS, for on AWS modernization), containerization blockers, three types of open source risks, green software insights, and more.</p>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	Not available
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	Not available

Category	Product capabilities
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<p>Not available</p>
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application and its programming code</li> </ul>

Category	Product capabilities
<b>Database details discovery, source database system</b>	Not available
<b>Storage details discovery</b>  The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata	Not available
<b>Storage systems discoverable</b>  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Not available
<b>File system details discovery</b>	Not available
<b>Software details discovery, programming languages</b>	50+ languages, including C#, C++, Closure, COBOL, Go, Java, JavaScript, Kotlin, PHP, Python, Ruby, Scala, Swift, TypeScript, VB.NET. See <a href="#">Technology Coverage</a> .
<b>Software details discovery, frameworks or libraries</b>	All the libraries and frameworks used by applications: defined in dependency files or through copy and pasting of public source code in public repositories
<b>Software details discovery, ISV products</b>  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Detection of proprietary or private components listed in dependency files
<b>Container details discovery</b>	Not available

Category	Product capabilities
<b>License discovery</b>	Not available
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Available
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Available
<b>Code analysis</b>  The ability to support static and dynamic code analysis, optionally identifying: <ul style="list-style-type: none"> <li>• Deprecated code</li> <li>• Security concerns in code</li> <li>• Resilience concerns in code</li> </ul>	<ul style="list-style-type: none"> <li>• Security concerns in code</li> <li>• Resilience concerns in code</li> <li>• Identification of cloud blockers and boosters, software health (resiliency, agility, elegance), software composition, three types of open source risks, use of proprietary components, software green insights. Recommendations of 5R disposition, migration and modernization waves, cloud or containerization blocker remediation and effort estimates, cloud-native services, open source risk remediation. All benchmarked with industry peers and with trends over time.</li> </ul>
<b>Pipeline integration</b>  The ability to integrate with CI/CD pipelines for continuous code analysis	Available

Category	Product capabilities
<p><b>Service discovery, mapping</b></p> <p>The ability to automate service discovery mapping, which identifies the underlying services, dependencies, and communication patterns (including to external resources, such as SaaS providers)</p>	Available
<p><b>Service discovery, recommendations</b></p> <p>The ability to suggest optimizations for discovered services</p>	Partial: to a certain level of detail (for example, only on API calls)
<p><b>Monolith decomposition, identification</b></p> <p>The ability to identify candidate microservices, given classes, objects, functions, and stored procedures</p>	Not available
<p><b>Monolith decomposition, impact analysis</b></p> <p>The ability to analyze the impact of the decomposition process</p>	Not available
<p><b>Open source compliance analysis, identification</b></p> <p>The ability to identify non-compliant open source solutions within an application</p>	Available
<p><b>Open source compliance analysis, recommendations</b></p> <p>The ability to suggest compliant alternatives or remediation steps</p>	Available

Category	Product capabilities
<p><b>Framework migration, standard</b></p> <p>The ability to support framework migrations, such as Spring to Spring Boot or .NET Framework to .NET 6+</p>	Not available
<p><b>Framework migration, legacy</b></p> <p>The ability to migrate legacy frameworks, databases, or data formats during framework migrations</p>	Not available
<p><b>Environmental impact analysis</b></p> <p>The ability to provide guidance about the sustainability of applications, such as before and after a migration</p>	Available
<p><b>Cost of change analysis, effort</b></p> <p>The ability to estimate the effort required to modernize an application</p>	Available
<p><b>Cost of change analysis, architecture</b></p> <p>The ability to estimate the target architecture costs after modernizing an application</p>	Not available
<p><b>Predictive outcome analysis</b></p> <p>The ability to rate modernization outcomes based on aggregated, anonymized data, such as the risk of change, the effort of change, and a confidence level that the change will be successful</p>	Available

Category	Product capabilities
<b>Weighted analysis, preferences</b>  The ability to weight preferences for modernization recommendations based on considerations such as performance, resilience, and cost	Available
<b>Weighted analysis, organizational priorities</b>  The ability to customize and adjust weights as organizational priorities change	Available

## CAST Imaging

*Last update: October 22, 2024*

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">CAST Imaging</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation

Category	Product capabilities
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">CAST Imaging on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• International Organization for Standardization (ISO) 27001, 27017, 27018, and 27701</li> </ul>
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<b>Discovery method</b>  The ability to support one or more of the following discovery methods:	Agent-based

Category	Product capabilities
<ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	Not available
<p><b>Operating systems discoverable</b></p>	Not available
<p><b>Other resources discoverable</b></p>	<p>CAST Imaging scans source code, configuration files, database scripts and other artifacts constituting a system of applications and databases to discover its architecture with its components, dependencies, end-to-end transaction flows and datagraphs, structural flaws, security, reliability, performance efficiency, and maintainability. CAST Imaging also makes recommendations based on various modernization pathways.</p>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	Not available

Category	Product capabilities
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	Not available
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"><li>• Application and server dependency – Individual servers and dependencies that form an application</li><li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li><li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li></ul>	Application and code dependency

Category	Product capabilities
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application and its programming code</li> </ul>
<p><b>Database details discovery, source database system</b></p>	<p>Not available</p>
<p><b>Database details discovery, database type</b></p>	<ul style="list-style-type: none"> <li>• MongoDB</li> <li>• Redis</li> </ul> <p>CAST Imaging covers 12+ database types. See <a href="#">Coverage overview</a>.</p>
<p><b>Storage details discovery</b></p> <p>The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata</p>	<p>Not available</p>

Category	Product capabilities
<p><b>Storage systems discoverable</b></p> <p>The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage</p>	Not available
<p><b>File system details discovery</b></p>	Not available
<p><b>Software details discovery, programming languages</b></p>	CAST Imaging covers 50+ programming languages. See <a href="#">Coverage overview</a> .
<p><b>Software details discovery, frameworks or libraries</b></p>	CAST Imaging covers hundreds of frameworks. See <a href="#">Coverage overview</a> .
<p><b>Software details discovery, ISV products</b></p> <p>The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition</p>	Not available
<p><b>Container details discovery</b></p>	Not available
<p><b>License discovery</b></p>	Not available
<p><b>Data sovereignty support</b></p> <p>The ability to keep discovered data within a specific geographic region</p>	Available
<p><b>Data export ability</b></p> <p>The ability to export the discovered data into a usable format, such as CSV or JSON</p>	Available

Category	Product capabilities
<p><b>Code analysis</b></p> <p>The ability to support static and dynamic code analysis, optionally identifying:</p> <ul style="list-style-type: none"> <li>• Deprecated code</li> <li>• Security concerns in code</li> <li>• Resilience concerns in code</li> </ul>	<ul style="list-style-type: none"> <li>• Deprecated code</li> <li>• Security concerns in code</li> <li>• Resilience concerns in code</li> </ul> <p>CAST Imaging automatically discovers the architecture of a system of applications and databases with its components, dependencies, end-to-end transaction flows and datagraphs, structural flaws, security, reliability, performance efficiency, and maintainability. CAST Imaging also makes recommendations based on various modernization paths.</p>
<p><b>Pipeline integration</b></p> <p>The ability to integrate with CI/CD pipelines for continuous code analysis</p>	<p>Available</p>
<p><b>Service discovery, mapping</b></p> <p>The ability to automate service discovery mapping, which identifies the underlying services, dependencies, and communication patterns (including to external resources, such as SaaS providers)</p>	<p>Available</p>
<p><b>Service discovery, recommendations</b></p> <p>The ability to suggest optimizations for discovered services</p>	<p>Partial: to a certain level of detail (for example, only on API calls)</p>
<p><b>Monolith decomposition, identification</b></p> <p>The ability to identify candidate microservices, given classes, objects, functions, and stored procedures</p>	<p>Available</p>

Category	Product capabilities
<p><b>Monolith decomposition, impact analysis</b></p> <p>The ability to analyze the impact of the decomposition process</p>	Available
<p><b>Open source compliance analysis, identification</b></p> <p>The ability to identify non-compliant open source solutions within an application</p>	Available
<p><b>Open source compliance analysis, recommendations</b></p> <p>The ability to suggest compliant alternatives or remediation steps</p>	Not available
<p><b>Framework migration, standard</b></p> <p>The ability to support framework migrations, such as Spring to Spring Boot or .NET Framework to .NET 6+</p>	Available; can report on compatibility and necessary changes
<p><b>Framework migration, legacy</b></p> <p>The ability to migrate legacy frameworks, databases, or data formats during framework migrations</p>	Available
<p><b>Environmental impact analysis</b></p> <p>The ability to provide guidance about the sustainability of applications, such as before and after a migration</p>	Available

Category	Product capabilities
<p><b>Cost of change analysis, effort</b></p> <p>The ability to estimate the effort required to modernize an application</p>	Available
<p><b>Cost of change analysis, architecture</b></p> <p>The ability to estimate the target architecture costs after modernizing an application</p>	Not available
<p><b>Predictive outcome analysis</b></p> <p>The ability to rate modernization outcomes based on aggregated, anonymized data, such as the risk of change, the effort of change, and a confidence level that the change will be successful</p>	Available
<p><b>Weighted analysis, preferences</b></p> <p>The ability to weight preferences for modernization recommendations based on considerations such as performance, resilience, and cost</p>	Available
<p><b>Weighted analysis, organizational priorities</b></p> <p>The ability to customize and adjust weights as organizational priorities change</p>	Available

## Cloudamize

*Last update: May 15, 2023*

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Cloudamize</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	<ul style="list-style-type: none"> <li>• AWS Migration and Modernization – Business Case Analysis</li> <li>• AWS Microsoft Workloads Competency</li> </ul>
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Cloudamize Assess and Plan on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• International Organization for Standardization (ISO) 27001</li> <li>• System and Organization Controls 2 (SOC 2) Type II</li> </ul>

Category	Product capabilities
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<b>Discovery method</b> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Agent-based</li> <li>• Login-based</li> </ul>

Category	Product capabilities
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Storage systems</li> <li>• Network devices</li> <li>• Software processes</li> <li>• Containers</li> </ul>
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Linux – Amazon Linux, CentOS, Debian GNU/Linux, Fedora Linux, Oracle Linux, Red Hat Enterprise Linux (RHEL), SUSE, Ubuntu</li> <li>• Windows</li> </ul>
<p><b>Other resources discoverable</b></p>	<ul style="list-style-type: none"> <li>• Applications</li> <li>• Application interdependencies</li> <li>• Firewall rules</li> <li>• Client app DNS</li> <li>• IP addresses and DNS</li> <li>• Machines details</li> <li>• SQL license discovery</li> </ul>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> </ul>

Category	Product capabilities
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> <li>• Network utilization data collection</li> </ul>
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and server dependency</li> <li>• Application and software process dependency</li> <li>• Application and code dependency</li> </ul>

Category	Product capabilities
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> <li>• Single application and its software processes</li> <li>• Single application and its programming code</li> </ul>
<p><b>Database details discovery, source database system</b></p>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Schemas (if local admin access is available)</li> <li>• Database size</li> <li>• Number of partitions</li> <li>• Clustering and servers in the cluster</li> <li>• Backups</li> <li>• Failover configuration (active-active, active-standby)</li> <li>• Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>

Category	Product capabilities
<b>Database details discovery, database type</b>	<ul style="list-style-type: none"> <li>• MariaDB</li> <li>• Microsoft SQL Server</li> <li>• MongoDB</li> <li>• MySQL</li> <li>• Oracle</li> <li>• PostgreSQL</li> <li>• Redis</li> <li>• SQLite</li> </ul>
<b>Storage details discovery, systems</b>	<ul style="list-style-type: none"> <li>• Local storage</li> <li>• Storage Area Network (SAN)</li> </ul>
<b>Storage details discovery, types</b>  The ability to discover storage system types and access protocols	<ul style="list-style-type: none"> <li>• File storage (for example, NFS or SMB)</li> <li>• Block storage (for example, Fiber Channel or iSCSI)</li> </ul>
<b>Storage details discovery, capacity</b>	<ul style="list-style-type: none"> <li>• Volume identifier and volume size (GB)</li> <li>• Storage pool name and size (GB)</li> <li>• Storage raw total size, raw usable size (GB)</li> <li>• Used capacity (GB)</li> </ul>
<b>Storage details discovery, configuration</b>	<ul style="list-style-type: none"> <li>• Media types (for example, SSD, magnetic disks, tape)</li> <li>• RAID levels (RAID 0, RAID 1, ..., RAID 6)</li> </ul>
<b>Storage details discovery, utilization</b>	<ul style="list-style-type: none"> <li>• Mean (average) IOPS</li> <li>• Peak IOPS</li> <li>• Mean (average) throughput (MB per second)</li> <li>• Peak throughput (MB per second)</li> <li>• Mean disk latency (milliseconds)</li> <li>• Peak disk latency (milliseconds)</li> </ul>

Category	Product capabilities
<p><b>Storage details discovery, object metadata</b></p>	<ul style="list-style-type: none"> <li>Object type (for example, text file, image, database data)</li> <li>Object size (MB)</li> <li>Object usage: last modified time</li> <li>Object access permissions</li> <li>Object encryption status</li> </ul>
<p><b>Storage systems discoverable</b></p> <p>The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage</p>	<p>No additional information</p>
<p><b>File system details discovery</b></p>	<ul style="list-style-type: none"> <li>File system types (for example, disk, tape)</li> <li>File system configuration (for example, clustering, mount point)</li> <li>Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
<p><b>Software details discovery, programming languages</b></p>	<p>C/C++, Java, .NET, NodeJS, Perl, Python, Ruby</p>
<p><b>Software details discovery, frameworks or libraries</b></p>	<p>Microsoft IIS, JAM, LAMP, MAMP, .NET, Spring Boot</p>
<p><b>Software details discovery, tools</b></p>	<p>Any software installed using OS-provided installation and packaging system mechanism</p>
<p><b>Software details discovery, ISV products</b></p> <p>The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition</p>	<p>Name, edition, and version</p>

Category	Product capabilities
<b>Container details discovery</b>	<ul style="list-style-type: none"> <li>• Docker</li> <li>• Kubernetes</li> <li>• Mesa</li> </ul>
<b>License discovery</b>	<ul style="list-style-type: none"> <li>• Microsoft – Hyper-V, Microsoft SQL Server, Windows</li> <li>• Application software – Cloudfunder discovers the application, vendor, and version, but not the license</li> </ul>
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Available
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## Concierto.cloud

*Last update: November 17, 2025*

### Notice

AWS Partner product descriptions and reported qualifications, including compliance, are provided by the AWS Partner and are not verified by AWS. For more information about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="https://concierto.cloud">Concierto.cloud</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Concierto.cloud on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• System and Organization Controls (SOC)</li> <li>• International Organization for Standardization (ISO) 27001:2022</li> <li>• National Institute of Standards and Technology (NIST) 800-53</li> <li>• CSA Star Level 2</li> </ul>
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>

Category	Product capabilities
Pricing model	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<p><b>Discovery method</b></p> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	Agentless
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Storage systems</li> <li>• Network devices</li> <li>• Software processes</li> </ul>
<b>Operating systems discoverable</b>	<ul style="list-style-type: none"> <li>• Windows</li> <li>• Linux</li> </ul>
<b>Other resources discoverable</b>	Not available

Category	Product capabilities
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>Physical and virtual servers and their profiles</li> <li>Network devices and profiles</li> </ul>
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>Physical and virtual server utilization data collection</li> <li>Network utilization data collection</li> </ul>
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>Application and server dependency – Individual servers and dependencies that form an application</li> <li>Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>Application and server dependency</li> <li>Application and software process dependency</li> <li>Application and code dependency</li> </ul>

Category	Product capabilities
<p data-bbox="115 226 391 258"><b>Visualization level</b></p> <p data-bbox="164 306 683 388">The ability to provide multiple-level visualization of applications:</p> <ul data-bbox="164 415 792 997" style="list-style-type: none"><li data-bbox="164 415 792 541">• All resource and applications – An entire on-premises or source environment with all resources and applications</li><li data-bbox="164 562 792 644">• Single application – A single application across its resources, end to end</li><li data-bbox="164 665 792 842">• Single application and its software processes – Individual software processes and dependencies that form an application</li><li data-bbox="164 863 792 997">• Single application and its programming code – Individual programming code and dependencies that form an application</li></ul>	<ul data-bbox="833 226 1433 527" style="list-style-type: none"><li data-bbox="833 226 1433 258">• All resource and applications</li><li data-bbox="833 279 1433 310">• Single application</li><li data-bbox="833 331 1433 422">• Single application and its software processes</li><li data-bbox="833 443 1433 527">• Single application and its programming code</li></ul>

Category	Product capabilities
<b>Database details discovery, source database system</b>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Schemas</li> <li>• Database size</li> <li>• Number of partitions</li> <li>• Clustering and servers in the cluster</li> <li>• Backups</li> <li>• Failover configuration (active-active, active-standby)</li> <li>• Mapping to storage via storage layers (for example, mapping of tablespaces via Automatic Storage Management file system for Oracle)</li> <li>• Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
<b>Database details discovery, database type</b>	<ul style="list-style-type: none"> <li>• Microsoft SQL Server</li> <li>• MongoDB</li> <li>• MySQL</li> <li>• Oracle</li> <li>• PostgreSQL</li> </ul>
<b>Storage details discovery, systems</b>	Local storage
<b>Storage details discovery, capacity</b>	<ul style="list-style-type: none"> <li>• Volume identifier and volume size (GB)</li> <li>• Storage raw total size, raw usable size (GB)</li> <li>• Used capacity (GB)</li> </ul>
<b>Storage details discovery, configuration</b>	Media types (for example, SSD, magnetic disks, tape)

Category	Product capabilities
<b>Storage details discovery, utilization</b>	<ul style="list-style-type: none"> <li>• Mean (average) IOPS</li> <li>• Peak IOPS</li> <li>• Mean (average) throughput (MB per second)</li> <li>• Peak throughput (MB per second)</li> <li>• Mean disk latency (milliseconds)</li> <li>• Peak disk latency (milliseconds)</li> </ul>
<b>Storage details discovery, object metadata</b>	<ul style="list-style-type: none"> <li>• Object type (for example, text file, image, database data)</li> <li>• Object size (MB)</li> </ul>
<b>Storage systems discoverable</b>  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Not available
<b>File system details discovery</b>	<ul style="list-style-type: none"> <li>• File system types (for example, disk, tape)</li> <li>• File system configuration (for example, clustering, mount point)</li> <li>• Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
<b>Software details discovery, programming languages</b>	<ul style="list-style-type: none"> <li>• ASP.NET</li> <li>• C++</li> <li>• C#</li> <li>• Java</li> <li>• JavaScript</li> <li>• JSP</li> <li>• PHP</li> <li>• VB.NET</li> </ul>

Category	Product capabilities
<b>Software details discovery, frameworks or libraries</b>	<ul style="list-style-type: none"> <li>• Apache Tomcat</li> <li>• Oracle WebLogic</li> <li>• IBM WebSphere</li> <li>• Nginx with all other frameworks discoverable along with legacy application</li> </ul>
<b>Software details discovery, tools</b>	Concierto.cloud identifies all the installed and running software
<b>Software details discovery, ISV products</b>  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Name, edition, and version
<b>Container details discovery</b>	Not available
<b>License discovery</b>	Not available
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Available
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

Category	Product capabilities
<p><b>Code analysis</b></p> <p>The ability to support static and dynamic code analysis, optionally identifying:</p> <ul style="list-style-type: none"> <li>• Deprecated code</li> <li>• Security concerns in code</li> <li>• Resilience concerns in code</li> </ul>	<ul style="list-style-type: none"> <li>• Security concerns in code</li> <li>• Resilience concerns in code</li> </ul>
<p><b>Pipeline integration</b></p> <p>The ability to integrate with CI/CD pipelines for continuous code analysis</p>	Available
<p><b>Service discovery, mapping</b></p> <p>The ability to automate service discovery mapping, which identifies the underlying services, dependencies, and communication patterns (including to external resources, such as SaaS providers)</p>	Available
<p><b>Service discovery, recommendations</b></p> <p>The ability to suggest optimizations for discovered services</p>	Available
<p><b>Monolith decomposition, identification</b></p> <p>The ability to identify candidate microservices, given classes, objects, functions, and stored procedures</p>	Available
<p><b>Monolith decomposition, impact analysis</b></p> <p>The ability to analyze the impact of the decomposition process</p>	Available

Category	Product capabilities
<p><b>Open source compliance analysis, identification</b></p> <p>The ability to identify non-compliant open source solutions within an application</p>	Available
<p><b>Open source compliance analysis, recommendations</b></p> <p>The ability to suggest compliant alternatives or remediation steps</p>	Available
<p><b>Framework migration, standard</b></p> <p>The ability to support framework migrations, such as Spring to Spring Boot or .NET Framework to .NET 6+</p>	Available; can report on compatibility and necessary changes
<p><b>Framework migration, legacy</b></p> <p>The ability to migrate legacy frameworks, databases, or data formats during framework migrations</p>	Available
<p><b>Environmental impact analysis</b></p> <p>The ability to provide guidance about the sustainability of applications, such as before and after a migration</p>	Available
<p><b>Cost of change analysis, effort</b></p> <p>The ability to estimate the effort required to modernize an application</p>	Available

Category	Product capabilities
<p><b>Cost of change analysis, architecture</b></p> <p>The ability to estimate the target architecture costs after modernizing an application</p>	Available
<p><b>Predictive outcome analysis</b></p> <p>The ability to rate modernization outcomes based on aggregated, anonymized data, such as the risk of change, the effort of change, and a confidence level that the change will be successful</p>	Available
<p><b>Weighted analysis, preferences</b></p> <p>The ability to weight preferences for modernization recommendations based on considerations such as performance, resilience, and cost</p>	Not available
<p><b>Weighted analysis, organizational priorities</b></p> <p>The ability to customize and adjust weights as organizational priorities change</p>	Available

## CloudSphere Cyber Asset Management Platform

*Last update: May 15, 2023*

### Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">CloudSphere Cyber Asset Management Platform</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization Competency – Migration
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Cyber Asset Management (CAM) Platform on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	SaaS on AWS (vendor VPC)
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• System and Organization Controls 2 (SOC 2) Type II</li> </ul>
<b>Service model</b>	Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<p><b>Discovery method</b></p> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless – Windows</li> <li>• Login-based – Linux or Unix</li> </ul>
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Software processes</li> <li>• Containers</li> </ul>
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Windows</li> <li>• Linux – Amazon Linux, CentOS, Debian GNU/Linux, Fedora Linux, Oracle Linux, Red Hat Enterprise Linux (RHEL), SUSE</li> <li>• Solaris</li> <li>• IBM AIX</li> <li>• HP-UX</li> </ul>
<p><b>Other resources discoverable</b></p>	<ul style="list-style-type: none"> <li>• Applications</li> <li>• Application interdependencies</li> <li>• Microsoft SQL Server license discovery</li> <li>• Machine details</li> <li>• Software relationships</li> </ul>

Category	Product capabilities
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>• Network dependencies</li> <li>• Performance metrics</li> <li>• IP addresses and DNS</li> <li>• Clusters</li> <li>• Cyber asset details</li> </ul> <ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> </ul>
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> <li>• Network utilization data collection</li> </ul>

Category	Product capabilities
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and server dependency</li> <li>• Application and software process dependency</li> </ul>
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> <li>• Single application and its software processes</li> </ul>

Category	Product capabilities
<b>Database details discovery, source database system</b>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Schemas</li> <li>• Database size</li> <li>• Number of partitions</li> <li>• Clustering and servers in the cluster</li> </ul>
<b>Database details discovery, database type</b>	<ul style="list-style-type: none"> <li>• MariaDB</li> <li>• Microsoft SQL Server</li> <li>• MongoDB</li> <li>• MySQL</li> <li>• Oracle</li> <li>• PostgreSQL</li> <li>• Redis</li> <li>• SQLite</li> </ul>
<b>Storage details discovery, systems</b>	Local storage
<b>Storage details discovery, capacity</b>	<ul style="list-style-type: none"> <li>• Volume identifier and volume size (GB)</li> <li>• Storage raw total size, raw usable size (GB)</li> <li>• Used capacity (GB)</li> </ul>
<b>Storage details discovery, utilization</b>	<ul style="list-style-type: none"> <li>• Mean (average) IOPS</li> <li>• Peak IOPS</li> <li>• Mean (average) throughput (MB per second)</li> <li>• Peak throughput (MB per second)</li> </ul>
<b>File system details discovery</b>	<ul style="list-style-type: none"> <li>• File system configuration (for example, clustering, mount point)</li> <li>• Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>

Category	Product capabilities
<b>Software details discovery, programming languages</b>	Not available
<b>Software details discovery, frameworks or libraries</b>	Not available
<b>Software details discovery, ISV products</b>  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Any software installed using OS provided installation and packaging system mechanism
<b>Container details discovery</b>	Docker
<b>License discovery</b>	Microsoft – Microsoft SQL Server, Windows Server
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Not available
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## Corent SurPaas MaaS

*Last update: May 15, 2023*

**Notice**

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**Product overview**

Category	Product capabilities
<b>Product website</b>	<a href="#">Corent SurPaas MaaS</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Corent MaaS on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	SaaS on AWS (vendor VPC)
<b>Compliance</b>	International Organization for Standardization (ISO) 27001
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<p><b>Discovery method</b></p> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>Agentless</li> <li>Agent-based</li> </ul>
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>Servers and operating systems</li> <li>Databases</li> <li>Storage systems</li> <li>Software processes</li> </ul>
<b>Operating systems discoverable</b>	<ul style="list-style-type: none"> <li>Linux</li> <li>Windows</li> <li>Other – IBM AIX, HP-X, Solaris</li> </ul>

Category	Product capabilities
<p><b>Other resources discoverable</b></p>	<ul style="list-style-type: none"> <li>• Dependency mapping</li> <li>• Performance monitoring</li> </ul>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>• Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> </ul>
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> <li>• Detached storage utilization data collection</li> <li>• Network utilization data collection</li> </ul>

Category	Product capabilities
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and server dependency</li> <li>• Application and software process dependency</li> </ul>
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> <li>• Single application and its software processes</li> </ul>

Category	Product capabilities
<b>Database details discovery, source database system</b>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Schemas</li> <li>• Database size</li> <li>• Clustering and servers in the cluster</li> <li>• Failover configuration (active-active, active-standby)</li> </ul>
<b>Database details discovery, database type</b>	<ul style="list-style-type: none"> <li>• MariaDB</li> <li>• Microsoft SQL Server</li> <li>• MySQL</li> <li>• Oracle</li> <li>• PostgreSQL</li> </ul>
<b>Storage details discovery, systems</b>	<ul style="list-style-type: none"> <li>• Local storage</li> <li>• Storage Area Network (SAN)</li> <li>• Network Attached Storage (NAS)</li> </ul>
<b>Storage details discovery, capacity</b>	<ul style="list-style-type: none"> <li>• Volume identifier and volume size (GB)</li> <li>• Storage pool name and size (GB)</li> <li>• Storage raw total size, raw usable size (GB)</li> <li>• Used capacity (GB)</li> </ul>
<b>Storage details discovery, configuration</b>	<ul style="list-style-type: none"> <li>• Media types (for example, SSD, magnetic disks, tape)</li> <li>• LUN in SAN SCSI environment</li> </ul>
<b>File system details discovery</b>	<ul style="list-style-type: none"> <li>• File system types (for example, disk, tape)</li> <li>• File system configuration (for example, clustering, mount point)</li> <li>• Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>

Category	Product capabilities
<b>Software details discovery, programming languages</b>	.NET, Java, Perl, PHP, Python, Ruby
<b>Software details discovery, frameworks or libraries</b>	Apache, Apache Tomcat, ASP.NET, Apache Tomcat, Microsoft IIS, Red Hat JBoss, IBM WebSphere
<b>Software details discovery, tools</b>	CRM, document management, ERP, SAP, Microsoft SharePoint
<b>Container details discovery</b>	Not available
<b>License discovery</b>	<ul style="list-style-type: none"> <li>• Microsoft – Windows, Microsoft SQL Server</li> <li>• Oracle – Oracle Database</li> </ul>
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Available
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## Datadog

*Last update: May 15, 2023*

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about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Datadog</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Application Monitoring and Orchestration
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Datadog on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• Health Insurance Portability and Accountability Act (HIPAA) Compliant Log Management and Security Monitoring</li> <li>• System and Organization Controls 2 (SOC 2) Type I and Type II</li> <li>• International Organization for Standardization (ISO) 27001</li> <li>• Federal Risk and Authorization Management Program (FedRAMP) LI-SaaS ATO</li> <li>• FedRAMP Moderate Impact for products in US1-FED site</li> <li>• General Data Protection Regulation (GDPR)</li> </ul>

Category	Product capabilities
<b>Service model</b>	<ul style="list-style-type: none"> <li>• CCPA Addendum</li> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription (14-day free trial)

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<b>Discovery method</b> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Agent-based</li> </ul>

Category	Product capabilities
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Storage systems</li> <li>• Network devices</li> <li>• Software processes</li> <li>• Containers</li> </ul>
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Linux – Amazon Linux, CentOS, Debian GNU/Linux, Fedora Linux, Red Hat, SUSE, Ubuntu</li> <li>• Windows</li> <li>• IBM AIX</li> <li>• Other – CoreOS, macOS</li> </ul>
<p><b>Other resources discoverable</b></p>	<p>No additional information</p>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>• Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> <li>• Network devices and profiles</li> </ul>

Category	Product capabilities
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> <li>• Detached storage utilization data collection</li> <li>• Network utilization data collection</li> </ul>
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and server dependency</li> <li>• Application and software process dependency</li> <li>• Application and code dependency</li> </ul>

Category	Product capabilities
<p data-bbox="115 226 391 258"><b>Visualization level</b></p> <p data-bbox="164 306 683 388">The ability to provide multiple-level visualization of applications:</p> <ul data-bbox="164 415 792 997" style="list-style-type: none"><li data-bbox="164 415 792 541">• All resource and applications – An entire on-premises or source environment with all resources and applications</li><li data-bbox="164 564 792 646">• Single application – A single application across its resources, end to end</li><li data-bbox="164 669 792 842">• Single application and its software processes – Individual software processes and dependencies that form an application</li><li data-bbox="164 865 792 997">• Single application and its programming code – Individual programming code and dependencies that form an application</li></ul>	<ul data-bbox="833 226 1433 527" style="list-style-type: none"><li data-bbox="833 226 1433 258">• All resource and applications</li><li data-bbox="833 281 1433 312">• Single application</li><li data-bbox="833 336 1433 420">• Single application and its software processes</li><li data-bbox="833 443 1433 527">• Single application and its programming code</li></ul>

Category	Product capabilities
<b>Database details discovery, source database system</b>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Schemas</li> <li>• Database size</li> <li>• Number of partitions</li> <li>• Clustering and servers in the cluster</li> <li>• Backups</li> <li>• Failover configuration (active-active, active-standby)</li> <li>• Mapping to storage via storage layers (for example, mapping of tablespaces via Automatic Storage Management file system for Oracle)</li> <li>• Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
<b>Database details discovery, database type</b>	<ul style="list-style-type: none"> <li>• MariaDB</li> <li>• Microsoft SQL Server</li> <li>• MongoDB</li> <li>• MySQL</li> <li>• Oracle</li> <li>• PostgreSQL</li> <li>• Redis</li> </ul>
<b>Storage details discovery, systems</b>	<ul style="list-style-type: none"> <li>• Local storage</li> <li>• Storage Area Network (SAN)</li> <li>• Network Attached Storage (NAS)</li> </ul>

Category	Product capabilities
<p><b>Storage details discovery, types</b></p> <p>The ability to discover storage system types and access protocols</p>	<ul style="list-style-type: none"> <li>• File storage (for example, NFS or SMB)</li> <li>• Block storage (for example, Fiber Channel or iSCSI)</li> <li>• Object storage (for example, Atmos, Vantara, HTTP, or REST)</li> </ul>
<p><b>Storage details discovery, capacity</b></p>	<ul style="list-style-type: none"> <li>• Volume identifier and volume size (GB)</li> <li>• Storage pool name and size (GB)</li> <li>• Storage raw total size, raw usable size (GB)</li> <li>• Used capacity (GB)</li> </ul>
<p><b>Storage details discovery, configuration</b></p>	<ul style="list-style-type: none"> <li>• Media types (for example, SSD, magnetic disks, tape)</li> <li>• Relationships among disk, array, LUN, and VM</li> </ul>
<p><b>Storage details discovery, utilization</b></p>	<ul style="list-style-type: none"> <li>• Mean (average) IOPS</li> <li>• Peak IOPS</li> <li>• Mean (average) throughput (MB per second)</li> <li>• Peak throughput (MB per second)</li> <li>• Mean disk latency (milliseconds)</li> <li>• Peak disk latency (milliseconds)</li> </ul>
<p><b>Storage details discovery, object metadata</b></p>	<ul style="list-style-type: none"> <li>• Object type (for example, text file, image, database data)</li> <li>• Object size (MB)</li> <li>• Object usage: last modified time</li> <li>• Object access permissions</li> <li>• Object encryption status</li> </ul>

Category	Product capabilities
<p><b>Storage systems discoverable</b></p> <p>The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage</p>	<p>No additional information</p>
<p><b>File system details discovery</b></p>	<ul style="list-style-type: none"> <li>• File system types (for example, disk, tape)</li> <li>• File system configuration (for example, clustering, mount point)</li> <li>• Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
<p><b>Software details discovery, programming languages</b></p>	<p>C++, Elixir, Go, Java, .NET, NodeJS, PHP, Python, Ruby</p>
<p><b>Software details discovery, frameworks or libraries</b></p>	<p>ASP.NET, Django, Drupal, Elasticsearch, Flask, Gin, gRPC, MongoDB, Spring Web, WordPress, and <a href="#">more</a></p>
<p><b>Software details discovery, tools</b></p>	<p>Microsoft Azure DevOps, Bitbucket, GitHub, GitLab, Gremlin, Jira, PagerDuty, ServiceNow, Sentry, Zendesk</p>
<p><b>Software details discovery, ISV products</b></p> <p>The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition</p>	<p>Name, edition, and version</p>

Category	Product capabilities
<b>Container details discovery</b>	<ul style="list-style-type: none"> <li>• Amazon Elastic Container Service (Amazon ECS)</li> <li>• Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• containerd</li> <li>• Docker</li> <li>• Kubernetes</li> <li>• Red Hat OpenShift</li> <li>• Rancher</li> </ul>
<b>License discovery</b>	Not available
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Not available
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Not available

## Device42

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Device42</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Device42 on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> </ul>
<b>Compliance</b>	<p>Because Device42 is deployed within the customer environment, many of these compliance standards are not required, such as Federal Risk and Authorization Management Program (FedRAMP) and General Data Protection Regulation (GDPR). As a result, Device42 meets the standard.</p>
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<p><b>Discovery method</b></p> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>Agentless</li> <li>Agent-based</li> <li>Login-based</li> </ul>
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>Servers and operating systems</li> <li>Databases</li> <li>Storage systems</li> <li>Network devices</li> <li>Software processes</li> <li>Containers</li> <li>Mainframe</li> </ul>
<b>Operating systems discoverable</b>	<ul style="list-style-type: none"> <li>Linux</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>• Windows</li> <li>• Other – FreeBSD, HP-UX, IBM AIX, IBMi, IBM Z, macOS, OpenBSD, Solaris, Unix</li> </ul>
<p><b>Other resources discoverable</b></p>	<p>Cloud discovery for AWS, Microsoft Azure, Google Cloud Platform (GCP), and Oracle. For details, see the <a href="#">Device42 website</a>.</p>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>• Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> </ul>
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> <li>• Detached storage utilization data collection</li> <li>• Network utilization data collection</li> </ul>

Category	Product capabilities
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and server dependency</li> <li>• Application and software process dependency</li> </ul>
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> <li>• Single application and its software processes</li> </ul>

Category	Product capabilities
<b>Database details discovery, source database system</b>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Schemas</li> <li>• Database size</li> <li>• Clustering and servers in the cluster</li> <li>• Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
<b>Database details discovery, database type</b>	<ul style="list-style-type: none"> <li>• MariaDB</li> <li>• Microsoft SQL Server</li> <li>• MongoDB</li> <li>• MySQL</li> <li>• Oracle</li> <li>• PostgreSQL</li> <li>• Redis</li> <li>• SQLite</li> </ul>
<b>Storage details discovery, systems</b>	<ul style="list-style-type: none"> <li>• Local storage</li> <li>• Storage Area Network (SAN)</li> <li>• Network Attached Storage (NAS)</li> </ul>
<b>Storage details discovery, types</b>  The ability to discover storage system types and access protocols	<ul style="list-style-type: none"> <li>• File storage (for example, NFS or SMB)</li> <li>• Block storage (for example, Fiber Channel or iSCSI)</li> </ul>
<b>Storage details discovery, capacity</b>	<ul style="list-style-type: none"> <li>• Volume identifier and volume size (GB)</li> <li>• Storage pool name and size (GB)</li> <li>• Storage raw total size, raw usable size (GB)</li> <li>• Used capacity (GB)</li> </ul>

Category	Product capabilities
<b>Storage details discovery, configuration</b>	<ul style="list-style-type: none"><li>• Media types (for example, SSD, magnetic disks, tape)</li><li>• LUN in SAN SCSI environment</li><li>• RAID levels (RAID 0, RAID 1, ..., RAID 6)</li><li>• Relationships among disk, array, LUN, and VM</li></ul>
<b>Storage details discovery, utilization</b>	<ul style="list-style-type: none"><li>• Mean (average) IOPS</li><li>• Peak IOPS</li><li>• Mean (average) throughput (MB per second)</li><li>• Peak throughput (MB per second)</li><li>• Mean disk latency (milliseconds)</li><li>• Peak disk latency (milliseconds)</li></ul>
<b>Storage details discovery, object metadata</b>	Not available

Category	Product capabilities
<p><b>Storage systems discoverable</b></p> <p>The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage</p>	<ul style="list-style-type: none"> <li>• Celerra</li> <li>• Dell Equallogic</li> <li>• EMC ECS, EMC Recover Point, EMC VMAX, EMC VNX, EMC VNXE, EMC XTREME IO</li> <li>• HDS G1000</li> <li>• Hitachi</li> <li>• HP Lefthand, HPE 3PAR</li> <li>• HPE Nimble</li> <li>• IBM Infinidat</li> <li>• LSI</li> <li>• NetApp</li> <li>• Oracle ZFS</li> <li>• Pure Storage</li> <li>• Tintri</li> <li>• VMware</li> </ul>
<p><b>File system details discovery</b></p>	<ul style="list-style-type: none"> <li>• File system types (for example, disk, tape)</li> <li>• File system configuration (for example, clustering, mount point)</li> </ul>
<p><b>Software details discovery, ISV products</b></p> <p>The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition</p>	<p>Name, edition, and version</p>
<p><b>Container details discovery</b></p>	<ul style="list-style-type: none"> <li>• Docker</li> <li>• Kubernetes</li> <li>• Linux Containers (LXC)</li> </ul>

Category	Product capabilities
<p><b>License discovery</b></p>	<ul style="list-style-type: none"> <li>• Microsoft – Hyper-V, Microsoft SQL Server, Windows, Microsoft Office, and others</li> <li>• Oracle – Operating System, Oracle Application Server, and others</li> <li>• Application software – All running processes and installed software through package manager</li> </ul>
<p><b>Data sovereignty support</b></p> <p>The ability to keep discovered data within a specific geographic region</p>	<p>Available</p>
<p><b>Data export ability</b></p> <p>The ability to export the discovered data into a usable format, such as CSV or JSON</p>	<p>Available</p>

## Dynatrace

*Last update: May 15, 2023*

### Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Dynatrace</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Application Monitoring and Orchestration
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Dynatrace on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• International Organization for Standardization (ISO) 27001</li> <li>• System and Organization Controls 2 (SOC 2) Type II</li> </ul> <p>The Dynatrace SaaS infrastructure is hosted in AWS, which meets many certification requirements, including System and Organization Controls (SOC) 1-3 / SSAE-16, ISO 27001, ISO 27017, ISO 27018, Payment Card Industry Data Security Standard (PCI DSS) level 1, Federal Risk and Authorization Management Program (FedRAMP), and more.</p>

Category	Product capabilities
<p><b>Service model</b></p>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<p><b>Pricing model</b></p>	<p>Subscription</p>

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<p><b>Discovery method</b></p> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Agent-based</li> </ul>

Category	Product capabilities
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Storage systems</li> <li>• Network devices</li> <li>• Software processes</li> <li>• Containers</li> <li>• Mainframe</li> </ul>
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Linux</li> <li>• Windows</li> <li>• Other – Android, IBM AIX, iOS, Solaris, IBM z/OS</li> </ul>
<p><b>Other resources discoverable</b></p>	<p>Citrix NetScaler 10.5+, IBM DataPower 4.0+, F5 BIG-IP LTM 11+, IBM iSeries (AS/400) - Preview 7.2+, IBM MQ 8.0+, Juniper Networks - Preview 12.1+, SAP ABAP platform - Preview 7.31+, Windows Server 2003+</p>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>• Network devices and profiles</li> </ul>
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> <li>• Network utilization data collection</li> </ul>

Category	Product capabilities
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and server dependency</li> <li>• Application and software process dependency</li> <li>• Application and code dependency</li> </ul>
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> <li>• Single application and its software processes</li> <li>• Single application and its programming code</li> </ul>

Category	Product capabilities
<b>Database details discovery, source database system</b>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
<b>Storage details discovery</b>  The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata	Not available
<b>File system details discovery</b>	Not available
<b>Software details discovery, programming languages</b>	Java, .NET, .NET Core, C / C++, Go, NodeJS, PHP, Python, Scala
<b>Software details discovery, frameworks or libraries</b>	Over 100 frameworks supported, Database, Web, Web services, Remoting, JavaScript, .NET, C++, Java
<b>Container details discovery</b>	<ul style="list-style-type: none"> <li>• BOSH bpm</li> <li>• containerd</li> <li>• CRI-O</li> <li>• Docker</li> <li>• Docker Enterprise</li> <li>• Garden-runC</li> <li>• Kubernetes</li> <li>• Red Hat OpenShift</li> <li>• SUSE CaaS</li> <li>• VMware Tanzu Kubernetes Grid</li> </ul>
<b>License discovery</b>	Not available

Category	Product capabilities
<b>Data sovereignty support</b> The ability to keep discovered data within a specific geographic region	Available
<b>Data export ability</b> The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## Flexera Cloud Migration and Modernization

*Last update: May 15, 2023*

### Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Flexera</a>
<b>Product certifications</b> <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation

Category	Product capabilities
<p><b>AWS Marketplace</b></p> <p>Link to subscribe or download</p>	<p><a href="#">Flexera Cloud Migration and Modernization on AWS Marketplace</a></p>
<p><b>Tool deployment model</b></p> <p>Product can be SaaS-based or customer-deployed</p>	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> </ul>
<p><b>Compliance</b></p>	<ul style="list-style-type: none"> <li>• APP Entity</li> <li>• General Data Protection Regulation (GDPR)</li> <li>• Health Insurance Portability and Accountability Act (HIPAA)</li> <li>• Payment card industry (PCI)</li> <li>• System and Organization Controls (SOC)</li> </ul>
<p><b>Service model</b></p>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<p><b>Pricing model</b></p>	<p>Subscription</p>

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<p><b>Discovery method</b></p> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<p>Agentless</p>
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Storage systems</li> <li>• Network devices</li> <li>• Software processes</li> </ul>
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Linux – CentOS (5.x, 6.x, 7.x), Red Hat Enterprise Linux (RHEL), SUSE, Ubuntu (12.04, 14.04, 16.04)</li> <li>• Windows</li> <li>• Other – IBM AIX, Oracle, Unix</li> </ul>
<p><b>Other resources discoverable</b></p>	<p>Basic equipment (IP phones, printers, fax machines), databases, load balancers (NetScaler, F5 Networks), network equipment (switches, routers, firewalls, etc.), SUSE Linux Enterprise Server (9, 10, 11, 12)</p>

Category	Product capabilities
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>• Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> <li>• Network devices and profiles</li> </ul>
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> <li>• Detached storage utilization data collection</li> <li>• Network utilization data collection</li> </ul>
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and server dependency</li> <li>• Application and software process dependency</li> </ul>

Category	Product capabilities
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> <li>• Single application and its software processes</li> </ul>
<p><b>Database details discovery, source database system</b></p>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Schemas</li> <li>• Database size</li> <li>• Mapping to storage via storage layers (for example, mapping of tablespaces via Automatic Storage Management file system for Oracle)</li> <li>• Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
<p><b>Database details discovery, database type</b></p>	<ul style="list-style-type: none"> <li>• Microsoft SQL Server</li> <li>• MySQL</li> <li>• Oracle</li> </ul>

Category	Product capabilities
<b>Storage details discovery, systems</b>	<ul style="list-style-type: none"> <li>Local storage</li> <li>Network Attached Storage (NAS)</li> </ul>
<b>Storage details discovery, types</b>  The ability to discover storage system types and access protocols	<ul style="list-style-type: none"> <li>File storage (for example, NFS or SMB)</li> <li>Block storage (for example, Fiber Channel or iSCSI)</li> </ul>
<b>Storage details discovery, capacity</b>	<ul style="list-style-type: none"> <li>Volume identifier and volume size (GB)</li> <li>Storage raw total size, raw usable size (GB)</li> <li>Used capacity (GB)</li> </ul>
<b>Storage details discovery, utilization</b>	<ul style="list-style-type: none"> <li>Mean (average) IOPS</li> <li>Peak IOPS</li> <li>Mean (average) throughput (MB per second)</li> <li>Peak disk latency (milliseconds)</li> </ul>
<b>Storage systems discoverable</b>  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Based on credential support
<b>File system details discovery</b>	<ul style="list-style-type: none"> <li>File system types (for example, disk, tape)</li> <li>File system configuration (for example, clustering, mount point)</li> <li>Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
<b>Software details discovery, programming languages</b>	C++, Fortran, Java, JavaScript, PHP, Python, SQL, essentially anything that is discovered in the Process List

Category	Product capabilities
<b>Software details discovery, frameworks or libraries</b>	Apache, Apache Tomcat, ASP.NET, BSD, Microsoft IIS, Java, Red Hat JBoss, NGen, Open Toolkit
<b>Software details discovery, tools</b>	Any tool with an on-premises component
<b>Software details discovery, ISV products</b>  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Name, edition, and version
<b>Container details discovery</b>	Not available
<b>License discovery</b>	<ul style="list-style-type: none"> <li>• Microsoft – Microsoft SQL Server, Windows</li> <li>• Oracle – All licenses publicly from vendor</li> <li>• Application software – All licenses publicly from vendor</li> </ul>
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Available
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## Matilda Discover

*Last update: May 15, 2023*

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**Product overview**

Category	Product capabilities
<b>Product website</b>	<a href="#">Matilda Discover</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
<b>AWS Marketplace</b>  Link to subscribe or download	Not available
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	International Organization for Standardization (ISO) 27001
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<p><b>Discovery method</b></p> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Agent-based</li> <li>• Login-based</li> </ul>
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Storage systems</li> <li>• Network devices</li> <li>• Software processes</li> </ul>

Category	Product capabilities
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Containers</li> <li>• Linux – Ubuntu 12.04+, Red Hat Enterprise Linux (RHEL) 5+, CentOS 5+, Oracle Enterprise 5+, SUSE 11+</li> <li>• Microsoft – Windows 2003 and later</li> <li>• HP – HP-UX 11 and later</li> <li>• Solaris – Solaris 10+</li> <li>• IBM – IBM AIX 6+</li> </ul>
<p><b>Other resources discoverable</b></p>	<ul style="list-style-type: none"> <li>• Applications</li> <li>• Application interdependencies</li> <li>• Firewall rules</li> <li>• Client app DNS</li> <li>• IP addresses and DNS</li> <li>• Machine details</li> <li>• Microsoft SQL Server license discovery</li> <li>• Load balancers (hardware and software)</li> <li>• Storage devices</li> <li>• Network devices</li> </ul>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>• Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> <li>• Network devices and profiles</li> </ul>

Category	Product capabilities
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> <li>• Detached storage utilization data collection</li> <li>• Network utilization data collection</li> </ul>
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and server dependency</li> <li>• Application and software process dependency</li> <li>• Application and code dependency</li> </ul>

Category	Product capabilities
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> <li>• Single application and its software processes</li> </ul>
<p><b>Database details discovery, source database system</b></p>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Schemas</li> <li>• Database size</li> <li>• Number of partitions</li> <li>• Clustering and servers in the cluster</li> <li>• Backups</li> <li>• Failover configuration (active-active, active-standby)</li> <li>• Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>

Category	Product capabilities
<b>Database details discovery, database type</b>	<ul style="list-style-type: none"> <li>• MariaDB</li> <li>• Microsoft SQL Server</li> <li>• MongoDB</li> <li>• MySQL</li> <li>• Oracle</li> <li>• PostgreSQL</li> <li>• Redis</li> <li>• SQLite</li> </ul>
<b>Storage details discovery, systems</b>	<ul style="list-style-type: none"> <li>• Local storage</li> <li>• Storage Area Network (SAN)</li> <li>• Network Attached Storage (NAS)</li> </ul>
<b>Storage details discovery, types</b>  The ability to discover storage system types and access protocols	<ul style="list-style-type: none"> <li>• File storage (for example, NFS or SMB)</li> <li>• Block storage (for example, Fiber Channel or iSCSI)</li> <li>• Object storage (for example, Atmos, Vantara, HTTP, or REST)</li> </ul>
<b>Storage details discovery, capacity</b>	<ul style="list-style-type: none"> <li>• Volume identifier and volume size (GB)</li> <li>• Storage pool name and size (GB)</li> <li>• Storage raw total size, raw usable size (GB)</li> <li>• Used capacity (GB)</li> </ul>
<b>Storage details discovery, configuration</b>	<ul style="list-style-type: none"> <li>• Media types (for example, SSD, magnetic disks, tape)</li> <li>• RAID levels (RAID 0, RAID 1, ..., RAID 6)</li> </ul>

Category	Product capabilities
<b>Storage details discovery, utilization</b>	<ul style="list-style-type: none"> <li>• Mean (average) IOPS</li> <li>• Peak IOPS</li> <li>• Mean (average) throughput (MB per second)</li> <li>• Peak throughput (MB per second)</li> <li>• Mean disk latency (milliseconds)</li> <li>• Peak disk latency (milliseconds)</li> </ul>
<b>Storage details discovery, object metadata</b>	<ul style="list-style-type: none"> <li>• Object type (for example, text file, image, database data)</li> <li>• Object size (MB)</li> </ul>
<b>Storage systems discoverable</b>  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Provided that SNMP is enabled
<b>File system details discovery</b>	<ul style="list-style-type: none"> <li>• File system types (for example, disk, tape)</li> <li>• File system configuration (for example, clustering, mount point)</li> <li>• Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
<b>Software details discovery, programming languages</b>	Java, .NET, Python, Ruby, NodeJS, Angular, React
<b>Software details discovery, frameworks or libraries</b>	Platform can identify all Java, .NET, Python, and Ruby based application frameworks. Platform can detect AngularJS, ReactJS frameworks. Applications running in Spring Boot services, Kubernetes platform. Other platforms such as Hadoop, SAP, and ERP systems.

Category	Product capabilities
<p><b>Software details discovery, ISV products</b></p> <p>The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition</p>	<p>Name, edition, and version</p>
<p><b>Container details discovery</b></p>	<ul style="list-style-type: none"> <li>• Docker</li> <li>• Kubernetes</li> </ul>
<p><b>License discovery</b></p>	<ul style="list-style-type: none"> <li>• Microsoft – Microsoft SQL Server, Windows operating systems, Hyper-V, Microsoft Office, Microsoft Active Directory</li> <li>• Oracle – Oracle Database, Oracle EBS applications, Oracle WebLogic</li> </ul> <p>Platform can extract software licenses for a variety of application software, including software IBM Db2, Informix, SAP Systems, IBM WebSphere, Oracle WebLogic, Microsoft IIS, Red Hat JBoss, and WildFly</p>
<p><b>Data sovereignty support</b></p> <p>The ability to keep discovered data within a specific geographic region</p>	<p>Available</p>
<p><b>Data export ability</b></p> <p>The ability to export the discovered data into a usable format, such as CSV or JSON</p>	<p>Available</p>

## Migration Evaluator

*Last update: May 15, 2023*

## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Migration Evaluator</a>
<b>Request for discovery assessment</b>  The ability to provide a business case to make sound AWS planning and migration decisions	<a href="#">Submit request</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	Servers deployed on premises in customer environment
<b>Compliance</b>	General Data Protection Regulation (GDPR)
<b>Service model</b>	Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services
<b>Pricing model</b>	No charge

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<b>Discovery method</b>  The ability to support one or more of the following discovery methods: <ul style="list-style-type: none"> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	Agentless

Category	Product capabilities
<ul style="list-style-type: none"> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> </ul>
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Linux</li> <li>• Windows</li> </ul>
<p><b>Other resources discoverable</b></p>	<p>Virtualization stacks</p>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> </ul>
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> </ul>

Category	Product capabilities
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<p>Application and server dependency</p>
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<p>All resources and applications through AWS Migration Hub</p>

Category	Product capabilities
<b>Database details discovery, source database system</b>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Clustering and servers in the cluster</li> <li>• Failover configuration (active-active, active-standby)</li> </ul>
<b>Database details discovery, database type</b>	Microsoft SQL Server
<b>Storage details discovery, systems</b>	Local storage
<b>Storage details discovery, types</b>  The ability to discover storage system types and access protocols	Block storage (for example, Fiber Channel or iSCSI)
<b>Storage details discovery, capacity</b>	<ul style="list-style-type: none"> <li>• Volume identifier and volume size (GB)</li> <li>• Storage raw total size, raw usable size (GB)</li> <li>• Used capacity (GB)</li> </ul>
<b>File system details discovery</b>	Not available
<b>Software details discovery</b>	Not available
<b>Container details discovery</b>	Not available
<b>License discovery</b>	Microsoft SQL Server version and edition
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Available

Category	Product capabilities
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## modelizeIT

*Last update: May 15, 2023*

### Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">modelizeIT</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">modelizeIT on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• Health Insurance Portability and Accountability Act (HIPAA)</li> <li>• Payment card industry (PCI)</li> <li>• System and Organization Controls (SOC) and other certifications are available through delivery partners</li> </ul>
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<p><b>Discovery method</b></p> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Agent-based</li> <li>• Login-based</li> </ul>
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Storage systems</li> <li>• Network devices</li> <li>• Software processes</li> <li>• Containers</li> <li>• Mainframe</li> </ul>
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Linux – Amazon Linux, Mainframe zLinux</li> <li>• Windows</li> <li>• Others – FreeBSD, HP-UX, Hyper-V, IBM AIX, OpenVMS, SCO UNIX, Solaris, Tru64 UNIX, VMware</li> </ul>
<p><b>Other resources discoverable</b></p>	<p>Hypervisors: Windows, Hyper-V, VMware, Kernel-based Virtual Machine (KVM), Xen, Oracle virtualization server, IBM AIX LPARs and</p>

Category	Product capabilities
	<p>WPARs, Solaris LDOMs and Zones, HP VPARs. Their configurations, clustering, and VMs.</p>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>• Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> <li>• Network devices and profiles</li> </ul>
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> <li>• Detached storage utilization data collection</li> <li>• Network utilization data collection</li> </ul>

Category	Product capabilities
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and server dependency</li> <li>• Application and software process dependency</li> <li>• Application and code dependency</li> </ul>
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> <li>• Single application and its software processes</li> <li>• Single application and its programming code</li> </ul>

Category	Product capabilities
<b>Database details discovery, source database system</b>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Schemas</li> <li>• Database size</li> <li>• Number of partitions</li> <li>• Clustering and servers in the cluster</li> <li>• Backups</li> <li>• Failover configuration (active-active, active-standby)</li> <li>• Mapping to storage via storage layers (for example, mapping of tablespaces via Automatic Storage Management file system for Oracle)</li> <li>• Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
<b>Database details discovery, database type</b>	<p>34 engines, including:</p> <ul style="list-style-type: none"> <li>• MariaDB</li> <li>• Microsoft SQL Server</li> <li>• MongoDB</li> <li>• MySQL</li> <li>• Oracle</li> <li>• PostgreSQL</li> <li>• Redis</li> <li>• SQLite</li> </ul>
<b>Storage details discovery, systems</b>	<ul style="list-style-type: none"> <li>• Local storage</li> <li>• Storage Area Network (SAN)</li> <li>• Network Attached Storage (NAS)</li> </ul>

Category	Product capabilities
<p><b>Storage details discovery, types</b></p> <p>The ability to discover storage system types and access protocols</p>	<ul style="list-style-type: none"> <li>• File storage (for example, NFS or SMB)</li> <li>• Block storage (for example, Fiber Channel or iSCSI)</li> <li>• Object storage (for example, Atmos, Vantara, HTTP, or REST)</li> </ul>
<p><b>Storage details discovery, capacity</b></p>	<ul style="list-style-type: none"> <li>• Volume identifier and volume size (GB)</li> <li>• Storage pool name and size (GB)</li> <li>• Storage raw total size, raw usable size (GB)</li> <li>• Used capacity (GB)</li> </ul>
<p><b>Storage details discovery, configuration</b></p>	<ul style="list-style-type: none"> <li>• Media types (for example, SSD, magnetic disks, tape)</li> <li>• LUN in SAN SCSI environment</li> <li>• RAID levels (RAID 0, RAID 1, ..., RAID 6)</li> <li>• Relationships among disk, array, LUN, and VM</li> </ul>
<p><b>Storage details discovery, utilization</b></p>	<ul style="list-style-type: none"> <li>• Mean (average) IOPS</li> <li>• Peak IOPS</li> <li>• Mean (average) throughput (MB per second)</li> <li>• Peak throughput (MB per second)</li> </ul>
<p><b>Storage details discovery, object metadata</b></p>	<ul style="list-style-type: none"> <li>• Object type (for example, text file, image, database data)</li> <li>• Object size (MB)</li> </ul>
<p><b>Storage systems discoverable</b></p> <p>The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage</p>	<p>EMC Isilon, NetApp filers, other devices from IBM, EMC, HP, Dell for which the information is discoverable at the client side</p>

Category	Product capabilities
<b>File system details discovery</b>	<ul style="list-style-type: none"> <li>• File system types (for example, disk, tape)</li> <li>• File system configuration (for example, clustering, mount point)</li> <li>• Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
<b>Software details discovery, programming languages</b>	SAP ABAP, COBOL, Java, JavaScript, Perl, PHP, PowerShell, Python, Shell script, VBS
<b>Software details discovery, frameworks or libraries</b>	Apache Tomcat, Microsoft IIS, Red Hat JBoss, Oracle Containers for J2EE, Oracle WebLogic, IBM WebSphere, and others
<b>Software details discovery, tools</b>	More than 2,000 models for various software vendors
<b>Software details discovery, ISV products</b>  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Name, edition, and version
<b>Container details discovery</b>	IBM AIX WPARs, Docker (including framework s on top of Docker such as Red Hat OpenShift and Rancher), Solaris containers (including Zones), Virtuozzo/OpenVZ. Containers are mapped to the applications deployed on them and related inter-dependencies.

Category	Product capabilities
<p><b>License discovery</b></p>	<ul style="list-style-type: none"> <li>• Microsoft – Windows, Microsoft SQL Server, Hyper-V (150+ total Microsoft products)</li> <li>• Oracle – 150+ Oracle products are identified. Editions and versions are identified for Oracle Database, Oracle WebLogic, and many other products. Usage of database options, packs, features is analyzed. Products are mapped to CPU pools on the physical hosts for virtual and physical servers via various virtualization and containerization technologies with consideration of Oracle CPU partitioning rules. CPU pools are mapped to the counts of required Oracle processor licenses according to the corresponding Oracle CPU factors.</li> <li>• Application software – IBM Db2, IBM WebSphere, and various other products from IBM, Red Hat, TIBCO, and 670+ other vendors.</li> </ul>
<p><b>Data sovereignty support</b></p> <p>The ability to keep discovered data within a specific geographic region</p>	<p>Available</p>
<p><b>Data export ability</b></p> <p>The ability to export the discovered data into a usable format, such as CSV or JSON</p>	<p>Available</p>

## New Relic One

*Last update: May 15, 2023*

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**Product overview**

Category	Product capabilities
<b>Product website</b>	<a href="#">New Relic</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Application Monitoring and Orchestration
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">New Relic Infrastructure and Application Monitoring on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• Federal Risk and Authorization Management Program (FedRAMP) moderate</li> <li>• General Data Protection Regulation (GDPR)</li> <li>• Health Insurance Portability and Accountability Act (HIPAA)</li> <li>• Payment card industry (PCI)</li> <li>• System and Organization Controls (SOC)</li> </ul>

Category	Product capabilities
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<b>Discovery method</b> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Agent-based</li> </ul>

Category	Product capabilities
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Software processes</li> <li>• Containers</li> </ul>
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Linux</li> <li>• Windows</li> </ul>
<p><b>Other resources discoverable</b></p>	<p>No additional information</p>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<p>Physical and virtual servers and their profiles</p>
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> <li>• Detached storage utilization data collection</li> <li>• Network utilization data collection</li> </ul>

Category	Product capabilities
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and server dependency</li> <li>• Application and software process dependency</li> <li>• Application and code dependency</li> </ul>
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> <li>• Single application and its software processes</li> <li>• Single application and its programming code</li> </ul>

Category	Product capabilities
<p><b>Database details discovery, source database system</b></p>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Database size</li> <li>• Clustering and servers in the cluster</li> <li>• Failover configuration (active-active, active-standby)</li> <li>• Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
<p><b>Storage details discovery</b></p> <p>The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata</p>	<p>Not available</p>
<p><b>File system details discovery</b></p>	<ul style="list-style-type: none"> <li>• File system types (for example, disk, tape)</li> <li>• File system configuration (for example, clustering, mount point)</li> <li>• Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
<p><b>Software details discovery, programming languages</b></p>	<p>.NET C#, Go, Java, Node, PHP, Python, Ruby</p>
<p><b>Software details discovery, frameworks or libraries</b></p>	<p>Apache Tomcat, ASP.NET, most modern Java frameworks</p>
<p><b>Software details discovery, ISV products</b></p> <p>The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition</p>	<p>Name, edition, and version</p>

Category	Product capabilities
<b>Container details discovery</b>	<ul style="list-style-type: none"> <li>• Docker</li> <li>• Kubernetes</li> <li>• Red Hat OpenShift</li> </ul>
<b>License discovery</b>	Not available
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Available
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## Tidal Accelerator

*Last update: October 22, 2024*

### Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Tidal Accelerator</a>

Category	Product capabilities
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
<b>AWS Marketplace</b>  Link to subscribe or download	Not available
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	SaaS on AWS (vendor VPC)
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• Health Insurance Portability and Accountability Act (HIPAA)</li> <li>• System and Organization Controls (SOC)</li> <li>• System and Organization Controls 2 (SOC 2) Type II</li> </ul>
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<p><b>Discovery method</b></p> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Login-based</li> </ul>
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Software processes</li> </ul>
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Windows</li> <li>• Linux</li> <li>• Solaris</li> <li>• IBM AIX</li> </ul>
<p><b>Other resources discoverable</b></p>	<p>Not available</p>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks,</p>	<ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>• Network devices and profiles</li> </ul>

Category	Product capabilities
<p>storage size, IOPS, network interfaces, or bandwidth</p>	
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such as peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> <li>• Network utilization data collection</li> </ul>
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• Application and server dependency</li> <li>• Application and software process dependency</li> <li>• Application and code dependency</li> </ul>

Category	Product capabilities
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<p>Single application</p>
<p><b>Database details discovery, source database system</b></p>	<p>Database engine</p>
<p><b>Database details discovery, database type</b></p>	<ul style="list-style-type: none"> <li>• Microsoft SQL Server</li> <li>• MySQL</li> <li>• Oracle</li> <li>• PostgreSQL</li> <li>• Redis</li> <li>• Neo4j</li> </ul>
<p><b>Storage details discovery, systems</b></p>	<p>Local storage</p>
<p><b>Storage details discovery, types</b></p> <p>The ability to discover storage system types and access protocols</p>	<p>Not available</p>

Category	Product capabilities
<b>Storage details discovery, capacity</b>	<ul style="list-style-type: none"> <li>• Volume identifier and volume size (GB)</li> <li>• Storage raw total size, raw usable size (GB)</li> <li>• Used capacity (GB)</li> </ul>
<b>Storage details discovery, configuration</b>	Not available
<b>Storage details discovery, utilization</b>	Not available
<b>Storage details discovery, object metadata</b>	Not available
<b>Storage systems discoverable</b>  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Not available
<b>File system details discovery</b>	Not available
<b>Software details discovery, programming languages</b>	From the <a href="#">Tidal guides</a> : C#, Java, JavaScript, Python, COBOL, PHP, C++, C, sh/bash., JSP, Perl, Visual Basic, VB.NET, VBScript
<b>Software details discovery, frameworks or libraries</b>	<ul style="list-style-type: none"> <li>• All libraries frameworks in C#, JavaScript, Python</li> <li>• Application frameworks: Apache Tomcat, Oracle WebLogic, IBM WebSphere</li> </ul>
<b>Software details discovery, ISV products</b>  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Not available

Category	Product capabilities
<b>Container details discovery</b>	Not available
<b>License discovery</b>	Not available
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Not available
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Available
<b>Code analysis</b>  The ability to support static and dynamic code analysis, optionally identifying: <ul style="list-style-type: none"> <li>• Deprecated code</li> <li>• Security concerns in code</li> <li>• Resilience concerns in code</li> </ul>	Security concerns in code
<b>Pipeline integration</b>  The ability to integrate with CI/CD pipelines for continuous code analysis	Available
<b>Service discovery, mapping</b>  The ability to automate service discovery mapping, which identifies the underlying services, dependencies, and communication patterns (including to external resources, such as SaaS providers)	Not available

Category	Product capabilities
<p><b>Service discovery, recommendations</b></p> <p>The ability to suggest optimizations for discovered services</p>	Not available
<p><b>Monolith decomposition, identification</b></p> <p>The ability to identify candidate microservices, given classes, objects, functions, and stored procedures</p>	Not available
<p><b>Monolith decomposition, impact analysis</b></p> <p>The ability to analyze the impact of the decomposition process</p>	Available
<p><b>Open source compliance analysis, identification</b></p> <p>The ability to identify non-compliant open source solutions within an application</p>	Not available
<p><b>Open source compliance analysis, recommendations</b></p> <p>The ability to suggest compliant alternatives or remediation steps</p>	Not available
<p><b>Framework migration, standard</b></p> <p>The ability to support framework migrations, such as Spring to Spring Boot or .NET Framework to .NET 6+</p>	Not available

Category	Product capabilities
<p><b>Framework migration, legacy</b></p> <p>The ability to migrate legacy frameworks, databases, or data formats during framework migrations</p>	Not available
<p><b>Environmental impact analysis</b></p> <p>The ability to provide guidance about the sustainability of applications, such as before and after a migration</p>	Available
<p><b>Cost of change analysis, effort</b></p> <p>The ability to estimate the effort required to modernize an application</p>	Not available
<p><b>Cost of change analysis, architecture</b></p> <p>The ability to estimate the target architecture costs after modernizing an application</p>	Not available
<p><b>Predictive outcome analysis</b></p> <p>The ability to rate modernization outcomes based on aggregated, anonymized data, such as the risk of change, the effort of change, and a confidence level that the change will be successful</p>	Available
<p><b>Weighted analysis, preferences</b></p> <p>The ability to weight preferences for modernization recommendations based on considerations such as performance, resilience, and cost</p>	Available

Category	Product capabilities
<b>Weighted analysis, organizational priorities</b>  The ability to customize and adjust weights as organizational priorities change	Available

## Turbonomic

*Last update: May 15, 2023*

### Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">IBM Turbonomic</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	<ul style="list-style-type: none"> <li>• AWS Cloud Management Tools Competency</li> <li>• AWS Microsoft Workloads Competency</li> <li>• AWS Cloud Migration Competency</li> </ul>
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Turbonomic on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	Not available
<b>Service model</b>	<ul style="list-style-type: none"> <li>Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<p><b>Discovery method</b></p> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>Agentless</li> <li>Login-based</li> </ul>

Category	Product capabilities
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Storage systems</li> <li>• Software processes</li> <li>• Containers</li> <li>• Mainframe</li> </ul>
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Linux</li> <li>• Windows</li> <li>• IBM AIX</li> </ul>
<p><b>Other resources discoverable</b></p>	<p>Bare metal, business applications (via APMs), containers and pods, hyper-converged systems, other cloud resources</p>
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>• Physical and virtual servers and their profiles</li> <li>• Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>• Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> </ul>
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>• Physical and virtual server utilization data collection</li> <li>• Attached storage utilization data collection</li> <li>• Detached storage utilization data collection</li> </ul>

Category	Product capabilities
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<p>Not available</p>
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<p>All resource and applications</p>

Category	Product capabilities
<b>Database details discovery, source database system</b>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Database editions</li> <li>• Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
<b>Storage details discovery, systems</b>	<ul style="list-style-type: none"> <li>• Local storage</li> <li>• Storage Area Network (SAN)</li> <li>• Network Attached Storage (NAS)</li> </ul>
<b>Storage details discovery, configuration</b>	Block storage (for example, Fiber Channel or iSCSI)
<b>Storage details discovery, capacity</b>	<ul style="list-style-type: none"> <li>• Volume identifier and volume size (GB)</li> <li>• Storage raw total size, raw usable size (GB)</li> <li>• Used capacity (GB)</li> </ul>
<b>Storage details discovery, types</b>  The ability to discover storage system types and access protocols	Relationships among disk, array, LUN, and VM
<b>Storage details discovery, utilization</b>	<ul style="list-style-type: none"> <li>• Mean (average) IOPS</li> <li>• Peak IOPS</li> <li>• Mean (average) throughput (MB per second)</li> <li>• Peak throughput (MB per second)</li> <li>• Mean disk latency (milliseconds)</li> <li>• Peak disk latency (milliseconds)</li> </ul>
<b>Storage details discovery, object metadata</b>	Not available

Category	Product capabilities
<p><b>Storage systems discoverable</b></p> <p>The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage</p>	<ul style="list-style-type: none"> <li>• EMC ScaleIO, EMC VMAX, EMC VPLEX, EMC XtremIO</li> <li>• HPE 3PAR</li> <li>• NetApp</li> <li>• Pure Storage</li> </ul>
<p><b>File system details discovery</b></p>	<p>Not available</p>
<p><b>Software details discovery</b></p>	<p>Not available</p>
<p><b>Container details discovery</b></p>	<ul style="list-style-type: none"> <li>• Kubernetes</li> <li>• Red Hat OpenShift</li> </ul>
<p><b>License discovery</b></p>	<p>Microsoft – Windows, Microsoft SQL Server, Hyper-V (stand-alone of SSVM)</p>
<p><b>Data sovereignty support</b></p> <p>The ability to keep discovered data within a specific geographic region</p>	<p>Available</p>
<p><b>Data export ability</b></p> <p>The ability to export the discovered data into a usable format, such as CSV or JSON</p>	<p>Available</p>

## vFunction

*Last update: October 22, 2024*

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about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">vFunction</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">vFunction on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> </ul>
<b>Compliance</b>	Not available
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>

Category	Product capabilities
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<b>Discovery method</b>  The ability to support one or more of the following discovery methods: <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	Agent-based
<b>Resources discoverable</b>  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	Software processes
<b>Operating systems discoverable</b>	<ul style="list-style-type: none"> <li>• Windows</li> <li>• Linux</li> </ul>
<b>Other resources discoverable</b>	Custom software applications, business logic
<b>Discovery of resource profiles</b>  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of	Not available

Category	Product capabilities
<p>CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<p>Not available</p>
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>• Application and server dependency – Individual servers and dependencies that form an application</li> <li>• Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>• Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<p>Application and code dependency</p>

Category	Product capabilities
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<p>Single application and its programming code</p>
<p><b>Database details discovery, source database system</b></p>	<p>Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</p>
<p><b>Storage details discovery</b></p> <p>The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata</p>	<p>Not available</p>
<p><b>Storage systems discoverable</b></p> <p>The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage</p>	<p>Not available</p>
<p><b>File system details discovery</b></p>	<p>Not available</p>

Category	Product capabilities
<b>Software details discovery, programming languages</b>	Java, .NET, Python, Ruby, Go, NodeJS, C++, PHP++
<b>Software details discovery, frameworks or libraries</b>	J2EE, Spring, Spring Boot, Quarkus, Hibernate, ASP.NET, VB.NET, C#.NET, and most others
<b>Software details discovery, ISV products</b>  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Not available
<b>Container details discovery</b>	Not available
<b>License discovery</b>	Not available
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Available
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Available
<b>Code analysis</b>  The ability to support static and dynamic code analysis, optionally identifying: <ul style="list-style-type: none"> <li>• Deprecated code</li> <li>• Security concerns in code</li> <li>• Resilience concerns in code</li> </ul>	<ul style="list-style-type: none"> <li>• Deprecated code</li> <li>• Resilience concerns in code</li> <li>• Scalability, engineering velocity, technical debt</li> </ul>

Category	Product capabilities
<p><b>Pipeline integration</b></p> <p>The ability to integrate with CI/CD pipelines for continuous code analysis</p>	Available
<p><b>Service discovery, mapping</b></p> <p>The ability to automate service discovery mapping, which identifies the underlying services, dependencies, and communication patterns (including to external resources, such as SaaS providers)</p>	Available
<p><b>Service discovery, recommendations</b></p> <p>The ability to suggest optimizations for discovered services</p>	Available
<p><b>Monolith decomposition, identification</b></p> <p>The ability to identify candidate microservices, given classes, objects, functions, and stored procedures</p>	Available
<p><b>Monolith decomposition, impact analysis</b></p> <p>The ability to analyze the impact of the decomposition process</p>	Available
<p><b>Open source compliance analysis, identification</b></p> <p>The ability to identify non-compliant open source solutions within an application</p>	Available

Category	Product capabilities
<p><b>Open source compliance analysis, recommendations</b></p> <p>The ability to suggest compliant alternatives or remediation steps</p>	Available
<p><b>Framework migration, standard</b></p> <p>The ability to support framework migrations, such as Spring to Spring Boot or .NET Framework to .NET 6+</p>	Available; can report on compatibility and necessary changes and can propose new code
<p><b>Framework migration, legacy</b></p> <p>The ability to migrate legacy frameworks, databases, or data formats during framework migrations</p>	Available
<p><b>Environmental impact analysis</b></p> <p>The ability to provide guidance about the sustainability of applications, such as before and after a migration</p>	Not available
<p><b>Cost of change analysis, effort</b></p> <p>The ability to estimate the effort required to modernize an application</p>	Available
<p><b>Cost of change analysis, architecture</b></p> <p>The ability to estimate the target architecture costs after modernizing an application</p>	Not available

Category	Product capabilities
<p><b>Predictive outcome analysis</b></p> <p>The ability to rate modernization outcomes based on aggregated, anonymized data, such as the risk of change, the effort of change, and a confidence level that the change will be successful</p>	Available
<p><b>Weighted analysis, preferences</b></p> <p>The ability to weight preferences for modernization recommendations based on considerations such as performance, resilience, and cost</p>	Available
<p><b>Weighted analysis, organizational priorities</b></p> <p>The ability to customize and adjust weights as organizational priorities change</p>	Available

## Virtana

*Last update: February 16, 2024*

### Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Virtana</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Virtana on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on premises in customer environment</li> </ul>
<b>Compliance</b>	System and Organization Controls (SOC)
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<p><b>Discovery method</b></p> <p>The ability to support one or more of the following discovery methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Login-based</li> </ul>
<p><b>Resources discoverable</b></p> <p>The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes</p>	<ul style="list-style-type: none"> <li>• Servers and operating systems</li> <li>• Databases</li> <li>• Storage systems</li> <li>• Network devices</li> <li>• Containers</li> </ul>
<p><b>Operating systems discoverable</b></p>	<ul style="list-style-type: none"> <li>• Linux</li> <li>• Windows</li> <li>• Solaris</li> </ul>
<p><b>Other resources discoverable</b></p>	<p>KVM, Hyper-V, AppDynamics, Dynatrace, ServiceNow, NetFlow, Cisco UCS, IBM PowerVM, Kubernetes, Brocade SAN Switch, Cisco SAN Switch, Dell PowerFlex, PowerMax, VPLEX, PowerStore, XtremIO, Hitachi VSP, NetApp Storage, Pure, Cisco Nexus</p>

Category	Product capabilities
<p><b>Discovery of resource profiles</b></p> <p>The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth</p>	<ul style="list-style-type: none"> <li>Physical and virtual servers and their profiles</li> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> <li>Network devices and profiles</li> </ul>
<p><b>Resource utilization data collection</b></p> <p>The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month</p>	<ul style="list-style-type: none"> <li>Physical and virtual server utilization data collection</li> <li>Attached storage utilization data collection</li> <li>Detached storage utilization data collection</li> <li>Network utilization data collection</li> </ul>
<p><b>Application dependency level</b></p> <p>The ability to discover application dependency and export dependency data:</p> <ul style="list-style-type: none"> <li>Application and server dependency – Individual servers and dependencies that form an application</li> <li>Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>Application and server dependency</li> <li>Application and software process dependency</li> <li>Application and code dependency</li> </ul>

Category	Product capabilities
<p><b>Visualization level</b></p> <p>The ability to provide multiple-level visualization of applications:</p> <ul style="list-style-type: none"> <li>• All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>• Single application – A single application across its resources, end to end</li> <li>• Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>• Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul style="list-style-type: none"> <li>• All resource and applications</li> <li>• Single application</li> <li>• Single application and its software processes</li> </ul>
<p><b>Database details discovery, source database system</b></p>	<ul style="list-style-type: none"> <li>• Database engine</li> <li>• Clustering and servers in the cluster</li> </ul>
<p><b>Database details discovery, database type</b></p>	<ul style="list-style-type: none"> <li>• MariaDB</li> <li>• Microsoft SQL Server</li> <li>• MongoDB</li> <li>• MySQL</li> <li>• Oracle</li> <li>• PostgreSQL</li> </ul>
<p><b>Storage details discovery, systems</b></p>	<ul style="list-style-type: none"> <li>• Local storage</li> <li>• Storage Area Network (SAN)</li> <li>• Network Attached Storage (NAS)</li> </ul>

Category	Product capabilities
<b>Storage details discovery, configuration</b>	<ul style="list-style-type: none"> <li>• File storage (for example, NFS or SMB)</li> <li>• Block storage (for example, Fiber Channel or iSCSI)</li> <li>• Object storage (for example, Atmos, Vantara, HTTP, or REST)</li> </ul>
<b>Storage details discovery, capacity</b>	<ul style="list-style-type: none"> <li>• Volume identifier and volume size (GB)</li> <li>• Storage pool name and size (GB)</li> <li>• Storage raw total size, raw usable size (GB)</li> <li>• Used capacity (GB)</li> </ul>
<b>Storage details discovery, types</b>  The ability to discover storage system types and access protocols	<ul style="list-style-type: none"> <li>• LUN in SAN SCSI environment</li> <li>• RAID levels (RAID 0, RAID 1, ..., RAID 6)</li> <li>• Relationships among disk, array, LUN, and VM</li> </ul>
<b>Storage details discovery, utilization</b>	<ul style="list-style-type: none"> <li>• Mean (average) IOPS</li> <li>• Peak IOPS</li> <li>• Mean (average) throughput (MB per second)</li> <li>• Peak throughput (MB per second)</li> <li>• Mean disk latency (milliseconds)</li> <li>• Peak disk latency (milliseconds)</li> </ul>
<b>Storage details discovery, object metadata</b>	Not available
<b>Storage systems discoverable</b>  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Dell PowerFlex, Hitachi VSP, HPE, IBM SVC, Infinidat, NetApp Storage, PowerMax, PowerProtect, PowerStore, Pure, Unity, VPLEX, XtremIO
<b>File system details discovery</b>	Not available

Category	Product capabilities
<b>Software details discovery</b>	Not available
<b>Container details discovery</b>	<ul style="list-style-type: none"><li>• AWS</li><li>• Kubernetes</li><li>• Microsoft Azure</li><li>• Red Hat OpenShift</li></ul>
<b>License discovery</b>	Not available
<b>Data sovereignty support</b>  The ability to keep discovered data within a specific geographic region	Available
<b>Data export ability</b>  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

# Business case analysis migration tools

Understanding and optimizing the total cost of ownership (TCO) is crucial for successful cloud migrations. AWS and AWS Partners offer tools that can help you make informed financial decisions. These tools help you accurately estimate cloud costs and potential savings compared to on-premises environments. They can offer sophisticated TCO analysis capabilities, including detailed cost modeling, rightsizing recommendations, and optimization scenarios. These tools help you build a strong business case for migration by providing granular insights into current infrastructure costs, projected costs, and potential cost optimization opportunities across compute, storage, and networking resources. This data-driven approach to TCO analysis helps you make migration decisions that are financially sound and aligned with your business objectives.

This section is intended to help you choose the most appropriate tool for your situation. If specific features or capabilities are critical to your use case, you can use the filter categories and attributes available on [Business Case Analysis migration tools](#) in order to view only the tools that match your criteria.

**This section describes the following business case analysis tools and their capabilities:**

- [Cloudamize](#)
- [CloudHealth by VMware](#)
- [Concierto.cloud](#)
- [Corent SurPaas MaaS](#)
- [Datadog](#)
- [Flexera Cloud Migration and Modernization](#)
- [Migration Evaluator](#)
- [Turbonomic](#)

## Cloudamize

*Last update: May 15, 2023*

### Notice

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about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Cloudamize</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	<ul style="list-style-type: none"> <li>• AWS Migration and Modernization – Business Case Analysis</li> <li>• AWS Microsoft Workloads Competency</li> </ul>
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Cloudamize on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• International Organization for Standardization (ISO) 27001</li> <li>• System and Organization Controls 2 (SOC 2) Type II</li> </ul>
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance</li> </ul>

Category	Product capabilities
	<p>ce can be done by customer or end-user with the option of vendor support</p> <ul style="list-style-type: none"> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Business case analysis capabilities

Category	Product capabilities
<p><b>Data import</b></p> <p>The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)</p>	<p>Programmatically through the API</p>
<p><b>Right-sizing, Amazon EC2 instance type</b></p> <p>The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile<sup>1</sup> and utilization data<sup>2</sup>, application characteristics<sup>3</sup>, and Amazon EC2 characteristics<sup>4</sup></p>	<ul style="list-style-type: none"> <li>• vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>• CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> <li>• CPU speed (GHz) per generation</li> <li>• Application or user process CPU utilization</li> <li>• Synthetic workload test against processor benchmarking</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>• Intel x86 Hyper-Threading Technology for symmetric multiprocessing (SMP) applications</li> </ul>
<p><b>Right-sizing, Amazon EC2 manufacturer</b></p>	<ul style="list-style-type: none"> <li>• Intel-based EC2 instances</li> <li>• AMD-based EC2 instances</li> <li>• Arm-based EC2 instances</li> </ul>
<p><b>Exclusion of resource types</b></p> <p>The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation</p>	<p>Yes</p>
<p><b>VMware Cloud on AWS analysis</b></p> <p>The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using Amazon Simple Storage Service (Amazon S3) for storage</p>	<p>Yes</p>
<p><b>Right-sizing, tenancy</b></p> <p>The ability to make optimized recommendations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances</p>	<ul style="list-style-type: none"> <li>• Dedicated Hosts</li> <li>• Dedicated Instances</li> </ul>

Category	Product capabilities
<p><b>Right-sizing, attached storage</b></p> <p>The ability to use source storage profile data, utilization data, application characteristics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD</p>	<p>Yes</p>
<p><b>Choice of resource capacity allocation</b></p> <p>The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or fine-tune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan</p>	<p>Yes</p>
<p><b>License analysis</b></p> <p>The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS</p>	<ul style="list-style-type: none"> <li>• Provide EC2 license options, including BYOL and AWS license-included options</li> <li>• Optimize server license cost by reducing the licensable number of CPU cores</li> <li>• Optimize server license edition (for example, recommend downgrade option from Microsoft SQL Server Enterprise to Microsoft SQL Server Standard)</li> <li>• Analyze replatform costs; for example, Microsoft SQL Server to Amazon Relational Database Service (Amazon RDS), Oracle to Amazon Aurora PostgreSQL-Compatible Edition</li> <li>• Analyze database consolidation costs</li> </ul>

Category	Product capabilities
<p><b>TCO coverage, on premises</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	Not available
<p><b>TCO coverage, AWS</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	<ul style="list-style-type: none"> <li>• EC2 and Reserved Instance costs</li> <li>• Storage costs</li> <li>• Database costs</li> <li>• Networking costs</li> <li>• VMware Cloud on AWS costs</li> <li>• License costs</li> </ul>
<p><b>TCO coverage, migration</b></p> <p>Cost estimates</p>	Not available
<p><b>TCO data sovereignty support</b></p> <p>The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations</p>	Yes

<sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth

<sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month

<sup>3</sup> Application characteristics – CPU-intensive, CPU-bursty, memory-intensive, storage I/O-bound, or network-bound

<sup>4</sup> [Amazon EC2 characteristics](#)

# CloudHealth by VMware

Last update: May 15, 2023

## Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">VMware Tanzu CloudHealth</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	<ul style="list-style-type: none"> <li>• AWS Migration and Modernization – Business Case Analysis</li> <li>• AWS Cloud Management Tools Competency</li> </ul>
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">VMware Tanzu CloudHealth on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	SaaS on AWS (vendor VPC)
<b>Compliance</b>	System and Organization Controls 2 (SOC 2) Type II
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

## Business case analysis capabilities

Category	Product capabilities
<p><b>Data import</b></p> <p>The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)</p>	Programmatically through the API
<p><b>Right-sizing, Amazon EC2 instance type</b></p> <p>The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile<sup>1</sup> and utilization data<sup>2</sup>, application characteristics<sup>3</sup>, and Amazon EC2 characteristics<sup>4</sup></p>	<ul style="list-style-type: none"> <li>vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> </ul>
<p><b>Exclusion of resource types</b></p> <p>The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation</p>	Yes

Category	Product capabilities
<p><b>VMware Cloud on AWS analysis</b></p> <p>The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using Amazon Simple Storage Service (Amazon S3) for storage</p>	No
<p><b>Right-sizing, tenancy</b></p> <p>The ability to make optimized recommendations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances</p>	<ul style="list-style-type: none"> <li>• Dedicated Hosts</li> <li>• Dedicated Instances</li> </ul>
<p><b>Right-sizing, attached storage</b></p> <p>The ability to use source storage profile data, utilization data, application characteristics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD</p>	No
<p><b>Choice of resource capacity allocation</b></p> <p>The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or fine-tune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan</p>	Yes

Category	Product capabilities
<p><b>License analysis</b></p> <p>The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS</p>	<p>Not available</p>
<p><b>TCO coverage, on premises</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	<ul style="list-style-type: none"> <li>• Server and storage costs</li> <li>• Software, license, and support costs</li> <li>• Facility and maintenance costs (rack, infrastructure, power, and real estate)</li> <li>• Labor costs</li> </ul>
<p><b>TCO coverage, AWS</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	<ul style="list-style-type: none"> <li>• EC2 and Reserved Instance costs</li> <li>• Storage costs</li> <li>• Database costs</li> <li>• Networking costs</li> <li>• License costs</li> </ul>
<p><b>TCO coverage, migration</b></p> <p>Cost estimates</p>	<ul style="list-style-type: none"> <li>• Training costs</li> <li>• Tool costs</li> <li>• Labor costs (customer, partner, and AWS resources)</li> <li>• AWS services costs</li> </ul>
<p><b>TCO data sovereignty support</b></p> <p>The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations</p>	<p>No</p>

<sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth

<sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month

<sup>3</sup> Application characteristics – CPU-intensive, CPU-bursty, memory-intensive, storage I/O-bound, or network-bound

<sup>4</sup> [Amazon EC2 characteristics](#)

## Concierto.cloud

*Last update: November 17, 2025*

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Concierto.cloud</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Business Case Analysis
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Concierto.cloud on AWS Marketplace</a>

Category	Product capabilities
<p><b>Tool deployment model</b></p> <p>Product can be SaaS-based or customer-deployed</p>	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<p><b>Compliance</b></p>	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• System and Organization Controls (SOC)</li> <li>• International Organization for Standardization (ISO) 27001:2022</li> <li>• National Institute of Standards and Technology (NIST) 800-53</li> <li>• CSA Star Level 2</li> </ul>
<p><b>Service model</b></p>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<p><b>Pricing model</b></p>	<p>Subscription</p>

## Business case analysis capabilities

Category	Product capabilities
<p><b>Data import</b></p> <p>The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V)</p>	<ul style="list-style-type: none"> <li>• Manually</li> <li>• Programmatically through the API</li> </ul>

Category	Product capabilities
<p>or from software distribution tools (such as Microsoft SCCM)</p>	
<p><b>Right-sizing, Amazon EC2 instance type</b></p> <p>The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile<sup>1</sup> and utilization data<sup>2</sup>, application characteristics<sup>3</sup>, and Amazon EC2 characteristics<sup>4</sup></p>	<ul style="list-style-type: none"> <li>• vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>• CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> <li>• Application or user process CPU utilization</li> </ul>
<p><b>Exclusion of resource types</b></p> <p>The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation</p>	<p>Yes</p>
<p><b>Right-sizing, tenancy</b></p> <p>The ability to make optimized recommendations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances</p>	<p>Dedicated Hosts</p>
<p><b>Right-sizing, attached storage</b></p> <p>The ability to use source storage profile data, utilization data, application characteristics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD</p>	<p>Yes</p>

Category	Product capabilities
<p><b>Choice of resource capacity allocation</b></p> <p>The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or fine-tune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan</p>	<p>No</p>
<p><b>License analysis</b></p> <p>The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS</p>	<ul style="list-style-type: none"> <li>• Provide EC2 license options, including BYOL and AWS license-included options</li> <li>• Optimize server license cost by reducing the licensable number of CPU cores</li> <li>• Optimize server license edition (for example, recommend downgrade option from Microsoft SQL Server Enterprise to Microsoft SQL Server Standard)</li> <li>• Analyze replatform costs; for example, Microsoft SQL Server to Amazon Relational Database Service (Amazon RDS), Oracle to Amazon Aurora PostgreSQL-Compatible Edition</li> <li>• Analyze database consolidation costs</li> </ul>
<p><b>TCO coverage, on premises</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	<ul style="list-style-type: none"> <li>• Server and storage costs</li> <li>• Software, license, and support costs</li> <li>• Facility and maintenance costs (rack, infrastructure, power, and real estate)</li> <li>• Labor costs</li> </ul>

Category	Product capabilities
<p><b>TCO coverage, AWS</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	<p>EC2 and Reserved Instance costs</p>
<p><b>TCO coverage, migration</b></p> <p>Cost estimates</p>	<ul style="list-style-type: none"> <li>• Training costs</li> <li>• Tool costs</li> <li>• Labor costs (customer, partner, and AWS resources)</li> </ul>
<p><b>TCO data sovereignty support</b></p> <p>The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations</p>	<p>Yes</p>

<sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth

<sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month

<sup>3</sup> Application characteristics – CPU-intensive, CPU-bursty, memory-intensive, storage I/O-bound, or network-bound

<sup>4</sup> [Amazon EC2 characteristics](#)

## Corent SurPaas MaaS

*Last update: May 15, 2023*

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about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Corent SurPaas MaaS</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Corent MaaS on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	SaaS on AWS (vendor VPC)
<b>Compliance</b>	International Organization for Standardization (ISO) 27001
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>

Category	Product capabilities
Pricing model	Subscription

## Business case analysis capabilities

Category	Product capabilities
<p><b>Data import</b></p> <p>The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)</p>	Programmatically through the API
<p><b>Right-sizing, Amazon EC2 instance type</b></p> <p>The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile<sup>1</sup> and utilization data<sup>2</sup>, application characteristics<sup>3</sup>, and Amazon EC2 characteristics<sup>4</sup></p>	<ul style="list-style-type: none"> <li>vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> </ul>
<p><b>Exclusion of resource types</b></p> <p>The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation</p>	Yes
<p><b>VMware Cloud on AWS analysis</b></p> <p>The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using</p>	No

Category	Product capabilities
<p>Amazon Simple Storage Service (Amazon S3) for storage</p>	
<p><b>Right-sizing, tenancy</b></p> <p>The ability to make optimized recommendations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances</p>	<p>Not available</p>
<p><b>Right-sizing, attached storage</b></p> <p>The ability to use source storage profile data, utilization data, application characteristics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD</p>	<p>Yes</p>
<p><b>Choice of resource capacity allocation</b></p> <p>The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or fine-tune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan</p>	<p>Yes</p>
<p><b>License analysis</b></p> <p>The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS</p>	<ul style="list-style-type: none"> <li>Analyze replatform costs; for example, Microsoft SQL Server to Amazon Relational Database Service (Amazon RDS), Oracle to Amazon Aurora PostgreSQL-Compatible Edition</li> <li>Analyze database consolidation costs</li> </ul>

Category	Product capabilities
<p><b>TCO coverage, on premises</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	<p>Not available</p>
<p><b>TCO coverage, AWS</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	<ul style="list-style-type: none"> <li>• EC2 and Reserved Instance costs</li> <li>• Storage costs</li> <li>• Database costs</li> <li>• Networking costs</li> </ul>
<p><b>TCO coverage, migration</b></p> <p>Cost estimates</p>	<ul style="list-style-type: none"> <li>• Training costs</li> <li>• Tool costs</li> <li>• Labor costs (customer, partner, and AWS resources)</li> </ul>
<p><b>TCO data sovereignty support</b></p> <p>The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations</p>	<p>SaaS deployment running in multiple AWS Regions based on the AWS Partner and customer needs</p>

<sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth

<sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month

<sup>3</sup> Application characteristics – CPU-intensive, CPU-bursty, memory-intensive, storage I/O-bound, or network-bound

<sup>4</sup> [Amazon EC2 characteristics](#)

# Datadog

Last update: May 15, 2023

## Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Datadog</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Application Monitoring and Orchestration
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Datadog on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• CCPA Addendum</li> <li>• Federal Risk and Authorization Management Program (FedRAMP) LI-SaaS ATO</li> <li>• FedRAMP Moderate Impact for products in US1-FED site</li> <li>• General Data Protection Regulation (GDPR)</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>• Health Insurance Portability and Accountability Act (HIPAA) Compliant Log Management and Security Monitoring</li> <li>• International Organization for Standardization (ISO) 27001</li> <li>• System and Organization Controls 2 (SOC 2) Type I and Type II</li> </ul>
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Business case analysis capabilities

Category	Product capabilities
<b>Data import</b>  The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)	Programmatically through the API

Category	Product capabilities
<p><b>Right-sizing, Amazon EC2 instance type</b></p> <p>The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile<sup>1</sup> and utilization data<sup>2</sup>, application characteristics<sup>3</sup>, and Amazon EC2 characteristics<sup>4</sup></p>	<ul style="list-style-type: none"> <li>• vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>• CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> <li>• CPU speed (GHz) per generation</li> <li>• Application or user process CPU utilization</li> <li>• Synthetic workload test against processor benchmarking</li> <li>• Intel x86 Hyper-Threading Technology for symmetric multiprocessing (SMP) applications</li> </ul>
<p><b>Right-sizing, Amazon EC2 manufacturer</b></p>	<ul style="list-style-type: none"> <li>• Intel-based EC2 instances</li> <li>• AMD-based EC2 instances</li> <li>• Arm-based EC2 instances</li> </ul>
<p><b>Exclusion of resource types</b></p> <p>The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation</p>	<p>Yes</p>
<p><b>VMware Cloud on AWS analysis</b></p> <p>The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using Amazon Simple Storage Service (Amazon S3) for storage</p>	<p>No</p>

Category	Product capabilities
<p><b>Right-sizing, tenancy</b></p> <p>The ability to make optimized recommendations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances</p>	<ul style="list-style-type: none"> <li>• Dedicated Hosts</li> <li>• Dedicated Instances</li> </ul>
<p><b>Right-sizing, attached storage</b></p> <p>The ability to use source storage profile data, utilization data, application characteristics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD</p>	<p>Yes</p>
<p><b>Choice of resource capacity allocation</b></p> <p>The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or fine-tune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan</p>	<p>Yes</p>
<p><b>License analysis</b></p> <p>The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS</p>	<p>Not available</p>

Category	Product capabilities
<b>TCO coverage, on premises</b>  Cost estimates over 1 year and 3 years, respectively	Not available
<b>TCO coverage, AWS</b>  Cost estimates over 1 year and 3 years, respectively	Not available
<b>TCO coverage, migration</b>  Cost estimates	Not available
<b>TCO data sovereignty support</b>  The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	Yes

<sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth

<sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month

<sup>3</sup> Application characteristics – CPU-intensive, CPU-bursty, memory-intensive, storage I/O-bound, or network-bound

<sup>4</sup> [Amazon EC2 characteristics](#)

## Flexera Cloud Migration and Modernization

*Last update: May 15, 2023*

**Notice**

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**Product overview**

Category	Product capabilities
<b>Product website</b>	<a href="#">Flexera Cloud Migration</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Flexera Cloud Migration and Modernization on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on premises in customer environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• App Entity</li> <li>• General Data Protection Regulation (GDPR)</li> <li>• Health Insurance Portability and Accountability Act (HIPAA)</li> <li>• Payment card industry (PCI)</li> <li>• System and Organization Controls (SOC)</li> </ul>

Category	Product capabilities
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Business case analysis capabilities

Category	Product capabilities
<p><b>Data import</b></p> <p>The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)</p>	Manually
<p><b>Right-sizing, Amazon EC2 instance type</b></p> <p>The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile<sup>1</sup> and utilization data<sup>2</sup>, application characteristics<sup>3</sup>, and Amazon EC2 characteristics<sup>4</sup></p>	<ul style="list-style-type: none"> <li>• vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>• CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> <li>• Application or user process CPU utilization</li> </ul>

Category	Product capabilities
<b>Right-sizing, Amazon EC2 manufacturer</b>	Intel-based EC2 instances
<b>Exclusion of resource types</b>  The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation	No
<b>VMware Cloud on AWS analysis</b>  The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using Amazon Simple Storage Service (Amazon S3) for storage	Yes
<b>Right-sizing, tenancy</b>  The ability to make optimized recommendations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances	Dedicated Instances
<b>Right-sizing, attached storage</b>  The ability to use source storage profile data, utilization data, application characteristics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD	Yes

Category	Product capabilities
<p><b>Choice of resource capacity allocation</b></p> <p>The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or fine-tune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan</p>	<p>Yes</p>
<p><b>License analysis</b></p> <p>The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS</p>	<ul style="list-style-type: none"> <li>• Provide EC2 license options, including BYOL and AWS license-included options</li> <li>• Optimize server license cost by reducing the licensable number of CPU cores</li> <li>• Optimize server license edition (for example, recommend downgrade option from Microsoft SQL Server Enterprise to Microsoft SQL Server Standard)</li> <li>• Analyze replatform costs; for example, Microsoft SQL Server to Amazon Relational Database Service (Amazon RDS), Oracle to Amazon Aurora PostgreSQL-Compatible Edition</li> <li>• Analyze database consolidation costs</li> </ul>
<p><b>TCO coverage, on premises</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	<ul style="list-style-type: none"> <li>• Server and storage costs</li> <li>• Software, license, and support costs</li> <li>• Facility and maintenance costs (rack, infrastructure, power, and real estate)</li> </ul>

Category	Product capabilities
<p><b>TCO coverage, AWS</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	<ul style="list-style-type: none"> <li>• EC2 and Reserved Instance costs</li> <li>• Storage costs</li> <li>• Networking costs</li> <li>• VMware Cloud on AWS costs</li> <li>• License costs</li> </ul>
<p><b>TCO coverage, migration</b></p> <p>Cost estimates</p>	<ul style="list-style-type: none"> <li>• Training costs</li> <li>• Tool costs</li> <li>• Labor costs (customer, partner, and AWS resources)</li> <li>• AWS services costs</li> </ul>
<p><b>TCO data sovereignty support</b></p> <p>The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations</p>	<p>Yes</p>

<sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth

<sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month

<sup>3</sup> Application characteristics – CPU-intensive, CPU-bursty, memory-intensive, storage I/O-bound, or network-bound

<sup>4</sup> [Amazon EC2 characteristics](#)

## Migration Evaluator

*Last update: May 15, 2023*

## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Migration Evaluator</a>
<b>Request for TCO assessment</b>  The ability to provide a business case to make sound AWS planning and migration decisions	<a href="#">Submit request</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	SaaS on AWS (vendor VPC)
<b>Compliance</b>	General Data Protection Regulation (GDPR)
<b>Service model</b>	Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services
<b>Pricing model</b>	No charge

## Business case analysis capabilities

Category	Product capabilities
<b>Data import</b>  The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)	Manually

Category	Product capabilities
<p><b>Right-sizing, Amazon EC2 instance type</b></p> <p>The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile<sup>1</sup> and utilization data<sup>2</sup>, application characteristics<sup>3</sup>, and Amazon EC2 characteristics<sup>4</sup></p>	<ul style="list-style-type: none"> <li>• vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>• CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> <li>• CPU speed (GHz) per generation</li> <li>• Synthetic workload test against processor benchmarking</li> </ul>
<p><b>Right-sizing, Amazon EC2 manufacturer</b></p>	<ul style="list-style-type: none"> <li>• Intel-based EC2 instances</li> <li>• AMD-based EC2 instances</li> </ul>
<p><b>Exclusion of resource types</b></p> <p>The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation</p>	<p>Yes</p>
<p><b>VMware Cloud on AWS analysis</b></p> <p>The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using Amazon Simple Storage Service (Amazon S3) for storage</p>	<p>Yes</p>
<p><b>Right-sizing, tenancy</b></p> <p>The ability to make optimized recommendations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances</p>	<ul style="list-style-type: none"> <li>• Dedicated Hosts</li> <li>• Dedicated Instances</li> </ul>

Category	Product capabilities
<p><b>Right-sizing, attached storage</b></p> <p>The ability to use source storage profile data, utilization data, application characteristics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD</p>	No
<p><b>Choice of resource capacity allocation</b></p> <p>The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or fine-tune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan</p>	Yes
<p><b>License analysis</b></p> <p>The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS</p>	<ul style="list-style-type: none"> <li>• Provide EC2 license options, including BYOL and AWS license-included options</li> <li>• Optimize server license cost by reducing the licensable number of CPU cores</li> <li>• Analyze database consolidation costs</li> </ul>
<p><b>TCO coverage, on premises</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	<ul style="list-style-type: none"> <li>• Server and storage costs</li> <li>• Software, license, and support costs</li> <li>• Facility and maintenance costs (rack, infrastructure, power, and real estate)</li> </ul>

Category	Product capabilities
<p><b>TCO coverage, AWS</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	<ul style="list-style-type: none"> <li>• EC2 and Reserved Instance costs</li> <li>• Storage costs</li> <li>• Database costs</li> <li>• VMware Cloud on AWS costs</li> <li>• License costs</li> </ul>
<p><b>TCO coverage, migration</b></p> <p>Cost estimates</p>	<p>Not available</p>
<p><b>TCO data sovereignty support</b></p> <p>The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations</p>	<p>No</p>

<sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth

<sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month

<sup>3</sup> Application characteristics – CPU-intensive, CPU-bursty, memory-intensive, storage I/O-bound, or network-bound

<sup>4</sup> [Amazon EC2 characteristics](#)

## Turbonomic

*Last update: May 15, 2023*

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">IBM Turbonomic</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	<ul style="list-style-type: none"> <li>• AWS Migration and Modernization – Business Case Analysis</li> <li>• AWS Cloud Management Tools Competency</li> <li>• AWS Microsoft Workloads Competency</li> <li>• AWS Cloud Migration Competency</li> </ul>
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Turbonomic on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	Not available
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> </ul>
<b>Pricing model</b>	Subscription

## Business case analysis capabilities

Category	Product capabilities
<p><b>Data import</b></p> <p>The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)</p>	<ul style="list-style-type: none"> <li>Manually</li> <li>Programmatically through the API</li> </ul>
<p><b>Right-sizing, Amazon EC2 instance type</b></p> <p>The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile<sup>1</sup> and utilization data<sup>2</sup>, application characteristics<sup>3</sup>, and Amazon EC2 characteristics<sup>4</sup></p>	<ul style="list-style-type: none"> <li>vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> <li>CPU speed (GHz) per generation</li> <li>Application or user process CPU utilization</li> <li>Synthetic workload test against processor benchmarking</li> <li>Intel x86 Hyper-Threading Technology for symmetric multiprocessing (SMP) applications</li> </ul>

Category	Product capabilities
<p><b>Exclusion of resource types</b></p> <p>The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation</p>	<p>Yes</p>
<p><b>VMware Cloud on AWS analysis</b></p> <p>The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using Amazon Simple Storage Service (Amazon S3) for storage</p>	<p>Not available</p>
<p><b>Right-sizing, tenancy</b></p> <p>The ability to make optimized recommendations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances</p>	<p>Not available</p>
<p><b>Right-sizing, attached storage</b></p> <p>The ability to use source storage profile data, utilization data, application characteristics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD</p>	<p>Yes</p>

Category	Product capabilities
<p><b>Choice of resource capacity allocation</b></p> <p>The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or fine-tune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan</p>	<p>Yes</p>
<p><b>License analysis</b></p> <p>The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS</p>	<p>Provide EC2 license options, including BYOL and AWS license-included options</p>
<p><b>TCO coverage, on premises</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	<ul style="list-style-type: none"> <li>• Server and storage costs</li> <li>• Software, license, and support costs</li> </ul>
<p><b>TCO coverage, AWS</b></p> <p>Cost estimates over 1 year and 3 years, respectively</p>	<ul style="list-style-type: none"> <li>• EC2 and Reserved Instance costs</li> <li>• Storage costs</li> <li>• License costs</li> </ul>
<p><b>TCO coverage, migration</b></p> <p>Cost estimates</p>	<p>Not available</p>
<p><b>TCO data sovereignty support</b></p> <p>The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations</p>	<p>Yes</p>

- <sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth
- <sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month
- <sup>3</sup> Application characteristics – CPU-intensive, CPU-bursty, memory-intensive, storage I/O-bound, or network-bound
- <sup>4</sup> [Amazon EC2 characteristics](#)

# Application mobility migration tools

Migrating applications to the AWS Cloud can be streamlined through AWS and AWS Partner tools that are specifically designed for application mobility. Application mobility tools capture resource information about the host server, configuration, storage, network state, application language, and frameworks. Then, they can provision, configure, rehost, refactor, and automatically convert the application code based on your migration and modernization approach.

Some tools provide automated lift-and-shift capabilities for a wide range of applications, and others offer specialized features for complex application migrations, including automated dependency mapping, workload replication, and cutover orchestration.

This section is intended to help you choose the most appropriate tool for your situation. If specific features or capabilities are critical to your use case, you can use the filter categories and attributes available on [Application Mobility migration tools](#) in order to view only the tools that match your criteria.

**This section describes the following application mobility tools and their capabilities:**

- [AWS Application Migration Service](#)
- [CloudHedge OmniDeq application modernization platform](#)
- [Concierto.cloud](#)
- [Deloitte ATAsphere Suite](#)
- [Matilda Cloud](#)
- [RiverMeadow](#)
- [Stromasys Charon family of emulators](#)

## AWS Application Migration Service

*Last update: June 3, 2024*

### Product overview

Category	Product capabilities
Product website	<a href="#">AWS Application Migration Service</a>

Category	Product capabilities
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	Servers deployed on AWS (customer VPC)
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• Federal Risk and Authorization Management Program (FedRAMP)</li> <li>• General Data Protection Regulation (GDPR)</li> <li>• Health Insurance Portability and Accountability Act (HIPAA)</li> <li>• Payment card industry (PCI)</li> <li>• System and Organization Controls (SOC)</li> </ul>
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> </ul>
<b>Pricing model</b>	No charge for service; resource charges apply

## Application mobility capabilities

Category	Product capabilities
<b>Replication method</b>  The ability to support one or more of the following replication methods: <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Agent-based</li> </ul>

Category	Product capabilities
<ul style="list-style-type: none"> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
<p><b>Supported sources</b></p> <p>The hosting environments that the product can migrate applications from</p>	<ul style="list-style-type: none"> <li>• Google Cloud Platform</li> <li>• Hyper-V</li> <li>• Microsoft Azure</li> <li>• Physical servers</li> <li>• VMware</li> </ul>
<p><b>Application data collection</b></p> <p>The ability to collect data to support application transformation, such as code from .NET legacy to .NET core, monolith-to-microservices code conversions, or server-to-container conversions</p>	<p>Not available</p>
<p><b>Supported operating systems</b></p> <p>Operating systems that the product can migrate</p>	<ul style="list-style-type: none"> <li>• Linux</li> <li>• Windows</li> </ul>
<p><b>Supported targets</b></p> <p>Resources that the product can migrate to</p>	<p>Amazon Elastic Compute Cloud (Amazon EC2)</p>
<p><b>Source code repository integration</b></p> <p>Repositories that the product can analyze to support application transformation</p>	<p>Not available</p>

Category	Product capabilities
<p><b>Deployment integration</b></p> <p>Services that the product integrates with to support deployment</p>	Not available
<p><b>Infrastructure as code templates</b></p> <p>Templates that the product can generate to support application deployment</p>	Not available
<p><b>Notifications</b></p> <p>Methods that the product can use to notify you of progress or issues</p>	<ul style="list-style-type: none"> <li>• Logs</li> <li>• Metrics</li> </ul>
<p><b>Replication options, continuous asynchronous replication</b></p>	Available
<p><b>Replication options, bandwidth consumption</b></p> <p>The ability to manage bandwidth consumption, such as by using throttling or parallel replication streams</p>	Not available
<p><b>Replication options, storage types</b></p> <p>The ability to select storage types for both temporary and target replication disk volumes to manage performance and cost</p>	Available
<p><b>Replication options, reporting progress</b></p> <p>The ability to report replication progress, including success, stall, or failure states, and send events or alerts for those states</p>	Available

Category	Product capabilities
<p><b>Conversion options, programming languages</b></p> <p>The ability to convert application code to other languages</p>	Not available
<p><b>Conversion options, AWS native services</b></p> <p>The ability to convert an application for deployment to AWS Cloud native services</p>	Not available
<p><b>Conversion options, AWS managed container services</b></p> <p>The ability to convert an application for deployment to AWS managed container services</p>	Not available
<p><b>Conversion options, AWS serverless services</b></p> <p>The ability to convert an application to a serverless architecture based on AWS Lambda and Amazon API Gateway</p>	Not available
<p><b>Conversion options, licensing</b></p> <p>The ability to convert licensing mechanisms. For example replace a BYOL license with an AWS license-included option</p>	Available
<p><b>Data import</b></p> <p>The ability to import data from other telemetry sources and applications in common formats, such as CSV, JSON, YAML, or API</p>	Available

Category	Product capabilities
<b>Data export</b>  The ability to export discovered data into a usable format, such as CSV, JSON, YAML, or API	Available
<b>Data sovereignty support</b>  The ability to store data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	Yes

## CloudHedge OmniDeq application modernization platform

*Last update: June 3, 2024*

### Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">CloudHedge</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	Migration and Modernization ISV Competency

Category	Product capabilities
<p><b>AWS Marketplace</b></p> <p>Link to subscribe or download</p>	<p><a href="#">CloudHedge on AWS Marketplace</a></p>
<p><b>Tool deployment model</b></p> <p>Product can be SaaS-based or customer-deployed</p>	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<p><b>Compliance</b></p>	<p>Not available</p>
<p><b>Service model</b></p>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<p><b>Pricing model</b></p>	<p>Subscription</p>

## Application mobility capabilities

Category	Product capabilities
<p><b>Replication method</b></p> <p>The ability to support one or more of the following replication methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Login-based</li> </ul>
<p><b>Supported sources</b></p> <p>The hosting environments that the product can migrate applications from</p>	<ul style="list-style-type: none"> <li>• Container platforms, including Docker and Kubernetes-based</li> <li>• Google Cloud Platform</li> <li>• Hyper-V</li> <li>• Microsoft Azure</li> <li>• Physical servers</li> <li>• VMware</li> </ul>
<p><b>Application data collection</b></p> <p>The ability to collect data to support application transformation, such as code from .NET legacy to .NET core, monolith-to-microservices code conversions, or server-to-container conversions</p>	<ul style="list-style-type: none"> <li>• Programming language</li> <li>• Software versions</li> <li>• Environment</li> </ul>
<p><b>Supported operating systems</b></p> <p>Operating systems that the product can migrate</p>	<ul style="list-style-type: none"> <li>• IBM AIX</li> <li>• HP-UX</li> <li>• Linux</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>• Solaris</li> <li>• Windows</li> </ul>
<p><b>Supported targets</b></p> <p>Resources that the product can migrate to</p>	<ul style="list-style-type: none"> <li>• Amazon Elastic Compute Cloud (Amazon EC2)</li> <li>• AWS Lambda</li> <li>• Amazon Elastic Container Service (Amazon ECS) or Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• Other environmental configuration, including security groups</li> </ul>
<p><b>Source code repository integration</b></p> <p>Repositories that the product can analyze to support application transformation</p>	<ul style="list-style-type: none"> <li>• AWS CodeCommit</li> <li>• Bitbucket</li> <li>• GitHub</li> <li>• GitLab</li> <li>• Microsoft Azure Repos</li> </ul>
<p><b>Deployment integration</b></p> <p>Services that the product integrates with to support deployment</p>	Jenkins
<p><b>Infrastructure as code templates</b></p> <p>Templates that the product can generate to support application deployment</p>	<ul style="list-style-type: none"> <li>• Ansible</li> <li>• HashiCorp Terraform</li> <li>• PowerShell scripts</li> </ul>
<p><b>Notifications</b></p> <p>Methods that the product can use to notify you of progress or issues</p>	<ul style="list-style-type: none"> <li>• Email</li> <li>• Logs</li> </ul>
<p><b>Replication options, continuous asynchronous replication</b></p>	Available

Category	Product capabilities
<p><b>Replication options, bandwidth consumption</b></p> <p>The ability to manage bandwidth consumption, such as by using throttling or parallel replication streams</p>	Available
<p><b>Replication options, storage types</b></p> <p>The ability to select storage types for both temporary and target replication disk volumes to manage performance and cost</p>	Available
<p><b>Replication options, reporting progress</b></p> <p>The ability to report replication progress, including success, stall, or failure states, and send events or alerts for those states</p>	Available
<p><b>Conversion options, programming languages</b></p> <p>The ability to convert application code to other languages</p>	.NET Framework and .NET Legacy to .NET Core 6 and .NET Core 8
<p><b>Conversion options, AWS native services</b></p> <p>The ability to convert an application for deployment to AWS Cloud native services</p>	Available
<p><b>Conversion options, AWS managed container services</b></p> <p>The ability to convert an application for deployment to AWS managed container services</p>	Available

Category	Product capabilities
<p><b>Conversion options, AWS serverless services</b></p> <p>The ability to convert an application to a serverless architecture based on AWS Lambda and Amazon API Gateway</p>	Not available
<p><b>Conversion options, licensing</b></p> <p>The ability to convert licensing mechanisms. For example replace a BYOL license with an AWS license-included option</p>	Not available
<p><b>Data import</b></p> <p>The ability to import data from other telemetry sources and applications in common formats, such as CSV, JSON, YAML, or API</p>	Available
<p><b>Data export</b></p> <p>The ability to export discovered data into a usable format, such as CSV, JSON, YAML, or API</p>	Available
<p><b>Data sovereignty support</b></p> <p>The ability to store data on premises or at a designated location based on the data protection policies or government data sovereignty regulations</p>	Yes

## Concierto.cloud

*Last update: November 17, 2025*

**Notice**

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="https://concierto.cloud">Concierto.cloud</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	AWS Migration and Modernization – Application Mobility
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Concierto.cloud on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• System and Organization Controls (SOC)</li> <li>• International Organization for Standardization (ISO) 27001:2022</li> <li>• National Institute of Standards and Technology (NIST) 800-53</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>• CSA Star Level 2</li> </ul>
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Application mobility capabilities

Category	Product capabilities
<p><b>Replication method</b></p> <p>The ability to support one or more of the following replication methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Login-based</li> </ul>
<p><b>Supported sources</b></p> <p>The hosting environments that the product can migrate applications from</p>	<ul style="list-style-type: none"> <li>• Container platforms, including Docker and Kubernetes-based</li> <li>• Google Cloud Platform</li> <li>• Microsoft Azure</li> <li>• Physical servers</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>• VMware</li> </ul>
<p><b>Application data collection</b></p> <p>The ability to collect data to support application transformation, such as code from .NET legacy to .NET core, monolith-to-microservices code conversions, or server-to-container conversions</p>	<ul style="list-style-type: none"> <li>• Application anomalies</li> <li>• Application environment</li> <li>• Application errors and codes</li> <li>• Environment</li> <li>• Frameworks and libraries</li> <li>• Missing source code attribute</li> <li>• Number of lines of code</li> <li>• Number of unique functions or modules at source level or binary level</li> <li>• Performance data and metrics</li> <li>• Programming language</li> <li>• Software versions</li> <li>• Software vulnerabilities</li> </ul>
<p><b>Supported operating systems</b></p> <p>Operating systems that the product can migrate</p>	<ul style="list-style-type: none"> <li>• Linux</li> <li>• Windows</li> </ul>
<p><b>Supported targets</b></p> <p>Resources that the product can migrate to</p>	<ul style="list-style-type: none"> <li>• Amazon Elastic Compute Cloud (Amazon EC2)</li> <li>• AWS Lambda</li> <li>• Amazon Elastic Container Service (Amazon ECS) or Amazon Elastic Kubernetes Service (Amazon EKS)</li> </ul>
<p><b>Source code repository integration</b></p> <p>Repositories that the product can analyze to support application transformation</p>	<ul style="list-style-type: none"> <li>• Bitbucket</li> <li>• GitHub</li> <li>• GitLab</li> </ul>

Category	Product capabilities
<p><b>Deployment integration</b></p> <p>Services that the product integrates with to support deployment</p>	<ul style="list-style-type: none"> <li>• AWS CodePipeline</li> <li>• Bamboo</li> <li>• Buddy</li> <li>• GitLab</li> <li>• Jenkins</li> </ul>
<p><b>Infrastructure as code templates</b></p> <p>Templates that the product can generate to support application deployment</p>	<ul style="list-style-type: none"> <li>• AWS CloudFormation</li> <li>• HashiCorp Terraform</li> </ul>
<p><b>Notifications</b></p> <p>Methods that the product can use to notify you of progress or issues</p>	<ul style="list-style-type: none"> <li>• Email</li> <li>• Logs</li> <li>• Metrics</li> <li>• SMS</li> </ul>
<p><b>Replication options, continuous asynchronous replication</b></p>	<p>Available</p>
<p><b>Replication options, bandwidth consumption</b></p> <p>The ability to manage bandwidth consumption, such as by using throttling or parallel replication streams</p>	<p>Available</p>
<p><b>Replication options, storage types</b></p> <p>The ability to select storage types for both temporary and target replication disk volumes to manage performance and cost</p>	<p>Available</p>

Category	Product capabilities
<p><b>Replication options, reporting progress</b></p> <p>The ability to report replication progress, including success, stall, or failure states, and send events or alerts for those states</p>	Available
<p><b>Conversion options, programming languages</b></p> <p>The ability to convert application code to other languages</p>	.NET to .NET Core, Java upgrades, legacy SDK for .NET upgrades
<p><b>Conversion options, AWS native services</b></p> <p>The ability to convert an application for deployment to AWS Cloud native services</p>	Available
<p><b>Conversion options, AWS managed container services</b></p> <p>The ability to convert an application for deployment to AWS managed container services</p>	Available
<p><b>Conversion options, AWS serverless services</b></p> <p>The ability to convert an application to a serverless architecture based on AWS Lambda and Amazon API Gateway</p>	Not available
<p><b>Conversion options, licensing</b></p> <p>The ability to convert licensing mechanisms. For example replace a BYOL license with an AWS license-included option</p>	Not available

Category	Product capabilities
<p><b>Data import</b></p> <p>The ability to import data from other telemetry sources and applications in common formats, such as CSV, JSON, YAML, or API</p>	Available
<p><b>Data export</b></p> <p>The ability to export discovered data into a usable format, such as CSV, JSON, YAML, or API</p>	Available
<p><b>Data sovereignty support</b></p> <p>The ability to store data on premises or at a designated location based on the data protection policies or government data sovereignty regulations</p>	Yes

## Deloitte ATAsphere Suite

*Last update: June 3, 2024*

### Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Deloitte ATADATA</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	Migration and Modernization ISV Competency
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Deloitte ATADATA on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• Health Insurance Portability and Accountability Act (HIPAA)</li> <li>• Payment card industry (PCI)</li> <li>• System and Organization Controls (SOC)</li> </ul>
<b>Service model</b>	Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services
<b>Pricing model</b>	Subscription

## Application mobility capabilities

Category	Product capabilities
<p><b>Replication method</b></p> <p>The ability to support one or more of the following replication methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<p>Agentless</p>
<p><b>Supported sources</b></p> <p>The hosting environments that the product can migrate applications from</p>	<ul style="list-style-type: none"> <li>• Container platforms, including Docker and Kubernetes-based</li> <li>• Google Cloud Platform</li> <li>• Hyper-V</li> <li>• Microsoft Azure</li> <li>• Physical servers</li> <li>• VMware</li> </ul>
<p><b>Application data collection</b></p> <p>The ability to collect data to support application transformation, such as code from .NET legacy to .NET core, monolith-to-microservices code conversions, or server-to-container conversions</p>	<ul style="list-style-type: none"> <li>• Application environment</li> <li>• Performance data</li> <li>• Software versions</li> </ul>
<p><b>Supported operating systems</b></p> <p>Operating systems that the product can migrate</p>	<ul style="list-style-type: none"> <li>• IBM AIX</li> <li>• HP-UX</li> <li>• Linux</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>• Solaris</li> <li>• Windows</li> </ul>
<p><b>Supported targets</b></p> <p>Resources that the product can migrate to</p>	<ul style="list-style-type: none"> <li>• Amazon Elastic Compute Cloud (Amazon EC2)</li> <li>• Amazon Elastic Container Service (Amazon ECS) or Amazon Elastic Kubernetes Service (Amazon EKS)</li> </ul>
<p><b>Source code repository integration</b></p> <p>Repositories that the product can analyze to support application transformation</p>	Not available
<p><b>Deployment integration</b></p> <p>Services that the product integrates with to support deployment</p>	Not available
<p><b>Infrastructure as code templates</b></p> <p>Templates that the product can generate to support application deployment</p>	Not available
<p><b>Notifications</b></p> <p>Methods that the product can use to notify you of progress or issues</p>	<ul style="list-style-type: none"> <li>• Logs</li> <li>• Metrics</li> </ul>
<p><b>Replication options, continuous asynchronous replication</b></p>	Available
<p><b>Replication options, bandwidth consumption</b></p> <p>The ability to manage bandwidth consumption, such as by using throttling or parallel replication streams</p>	Available

Category	Product capabilities
<p><b>Replication options, storage types</b></p> <p>The ability to select storage types for both temporary and target replication disk volumes to manage performance and cost</p>	Available
<p><b>Replication options, reporting progress</b></p> <p>The ability to report replication progress, including success, stall, or failure states, and send events or alerts for those states</p>	Available
<p><b>Conversion options, programming languages</b></p> <p>The ability to convert application code to other languages</p>	Not available
<p><b>Conversion options, AWS native services</b></p> <p>The ability to convert an application for deployment to AWS Cloud native services</p>	Not available
<p><b>Conversion options, AWS managed container services</b></p> <p>The ability to convert an application for deployment to AWS managed container services</p>	Not available
<p><b>Conversion options, AWS serverless services</b></p> <p>The ability to convert an application to a serverless architecture based on AWS Lambda and Amazon API Gateway</p>	Not available

Category	Product capabilities
<p><b>Conversion options, licensing</b></p> <p>The ability to convert licensing mechanisms. For example replace a BYOL license with an AWS license-included option</p>	Not available
<p><b>Data import</b></p> <p>The ability to import data from other telemetry sources and applications in common formats, such as CSV, JSON, YAML, or API</p>	Available
<p><b>Data export</b></p> <p>The ability to export discovered data into a usable format, such as CSV, JSON, YAML, or API</p>	Available
<p><b>Data sovereignty support</b></p> <p>The ability to store data on premises or at a designated location based on the data protection policies or government data sovereignty regulations</p>	Yes

## Matilda Cloud

*Last update: June 3, 2024*

### Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Matilda Cloud</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	Migration and Modernization ISV Competency
<b>AWS Marketplace</b>  Link to subscribe or download	Not available
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	Not available
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>

Category	Product capabilities
<b>Pricing model</b>	Subscription

## Application mobility capabilities

Category	Product capabilities
<p><b>Replication method</b></p> <p>The ability to support one or more of the following replication methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Login-based</li> </ul>
<p><b>Supported sources</b></p> <p>The hosting environments that the product can migrate applications from</p>	<ul style="list-style-type: none"> <li>• Container platforms, including Docker and Kubernetes-based</li> <li>• Google Cloud Platform</li> <li>• Hyper-V</li> <li>• Microsoft Azure</li> <li>• Physical servers</li> <li>• VMware</li> </ul>
<p><b>Application data collection</b></p> <p>The ability to collect data to support application transformation, such as code from .NET legacy to .NET core, monolith-</p>	<ul style="list-style-type: none"> <li>• Programming language</li> <li>• Software versions</li> <li>• Environment</li> </ul>

Category	Product capabilities
to-microservices code conversions, or server-to-container conversions	
<b>Supported operating systems</b>  Operating systems that the product can migrate	<ul style="list-style-type: none"> <li>• IBM AIX</li> <li>• HP-UX</li> <li>• Linux</li> <li>• Solaris</li> <li>• Windows</li> </ul>
<b>Supported targets</b>  Resources that the product can migrate to	<ul style="list-style-type: none"> <li>• Amazon Elastic Compute Cloud (Amazon EC2)</li> <li>• AWS Lambda</li> <li>• Amazon Elastic Container Service (Amazon ECS) or Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>• Other environmental configuration, including security groups</li> </ul>
<b>Source code repository integration</b>  Repositories that the product can analyze to support application transformation	<ul style="list-style-type: none"> <li>• AWS CodeCommit</li> <li>• Bitbucket</li> <li>• GitHub</li> <li>• GitLab</li> <li>• Microsoft Azure Repos</li> </ul>
<b>Deployment integration</b>  Services that the product integrates with to support deployment	Jenkins
<b>Infrastructure as code templates</b>  Templates that the product can generate to support application deployment	<ul style="list-style-type: none"> <li>• Ansible</li> <li>• HashiCorp Terraform</li> <li>• PowerShell scripts</li> </ul>

Category	Product capabilities
<p><b>Notifications</b></p> <p>Methods that the product can use to notify you of progress or issues</p>	<ul style="list-style-type: none"> <li>• Email</li> <li>• Logs</li> </ul>
<p><b>Replication options, continuous asynchronous replication</b></p>	<p>Available</p>
<p><b>Replication options, bandwidth consumption</b></p> <p>The ability to manage bandwidth consumption, such as by using throttling or parallel replication streams</p>	<p>Available</p>
<p><b>Replication options, storage types</b></p> <p>The ability to select storage types for both temporary and target replication disk volumes to manage performance and cost</p>	<p>Available</p>
<p><b>Replication options, reporting progress</b></p> <p>The ability to report replication progress, including success, stall, or failure states, and send events or alerts for those states</p>	<p>Available</p>
<p><b>Conversion options, programming languages</b></p> <p>The ability to convert application code to other languages</p>	<p>.NET Framework and .NET Legacy to .NET Core 6 and .NET Core 8</p>
<p><b>Conversion options, AWS native services</b></p> <p>The ability to convert an application for deployment to AWS Cloud native services</p>	<p>Available</p>

Category	Product capabilities
<p><b>Conversion options, AWS managed container services</b></p> <p>The ability to convert an application for deployment to AWS managed container services</p>	Available
<p><b>Conversion options, AWS serverless services</b></p> <p>The ability to convert an application to a serverless architecture based on AWS Lambda and Amazon API Gateway</p>	Not available
<p><b>Conversion options, licensing</b></p> <p>The ability to convert licensing mechanisms. For example replace a BYOL license with an AWS license-included option</p>	Not available
<p><b>Data import</b></p> <p>The ability to import data from other telemetry sources and applications in common formats, such as CSV, JSON, YAML, or API</p>	Available
<p><b>Data export</b></p> <p>The ability to export discovered data into a usable format, such as CSV, JSON, YAML, or API</p>	Available
<p><b>Data sovereignty support</b></p> <p>The ability to store data on premises or at a designated location based on the data protection policies or government data sovereignty regulations</p>	Yes

# RiverMeadow

Last update: June 3, 2024

## Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">RiverMeadow</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	Migration and Modernization ISV Competency
<b>AWS Marketplace</b>  Link to subscribe or download	Not available
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> </ul>
<b>Compliance</b>	System and Organization Controls (SOC)
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Application mobility capabilities

Category	Product capabilities
<b>Replication method</b>  The ability to support one or more of the following replication methods: <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul style="list-style-type: none"> <li>• Agentless</li> <li>• Agent-based</li> </ul>
<b>Supported sources</b>  The hosting environments that the product can migrate applications from	<ul style="list-style-type: none"> <li>• Google Cloud Platform</li> <li>• Hyper-V</li> <li>• Microsoft Azure</li> <li>• Physical servers</li> <li>• VMware</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>• Other – Oracle Cloud Infrastructure (OCI), IBM Cloud, Alibaba, Red Hat Virtualization (RHV), Kernel-based Virtual Machine (KVM), Nutanix AHV, Microsoft Azure Stack HCI</li> </ul>
<p><b>Application data collection</b></p> <p>The ability to collect data to support application transformation, such as code from .NET legacy to .NET core, monolith-to-microservices code conversions, or server-to-container conversions</p>	<ul style="list-style-type: none"> <li>• Software versions</li> <li>• Software vulnerabilities</li> </ul>
<p><b>Supported operating systems</b></p> <p>Operating systems that the product can migrate</p>	<ul style="list-style-type: none"> <li>• Linux</li> <li>• Windows</li> </ul>
<p><b>Supported targets</b></p> <p>Resources that the product can migrate to</p>	<ul style="list-style-type: none"> <li>• Amazon Elastic Compute Cloud (Amazon EC2)</li> <li>• Amazon Elastic Block Store (Amazon EBS), Amazon Simple Storage Service (Amazon S3)</li> </ul>
<p><b>Source code repository integration</b></p> <p>Repositories that the product can analyze to support application transformation</p>	GitHub
<p><b>Deployment integration</b></p> <p>Services that the product integrates with to support deployment</p>	Jenkins
<p><b>Infrastructure as code templates</b></p> <p>Templates that the product can generate to support application deployment</p>	AWS CloudFormation

Category	Product capabilities
<p><b>Notifications</b></p> <p>Methods that the product can use to notify you of progress or issues</p>	<ul style="list-style-type: none"> <li>• Email</li> <li>• Logs</li> </ul>
<p><b>Replication options, continuous asynchronous replication</b></p>	<p>Available</p>
<p><b>Replication options, bandwidth consumption</b></p> <p>The ability to manage bandwidth consumption, such as by using throttling or parallel replication streams</p>	<p>Available</p>
<p><b>Replication options, storage types</b></p> <p>The ability to select storage types for both temporary and target replication disk volumes to manage performance and cost</p>	<p>Available</p>
<p><b>Replication options, reporting progress</b></p> <p>The ability to report replication progress, including success, stall, or failure states, and send events or alerts for those states</p>	<p>Available</p>
<p><b>Conversion options, programming languages</b></p> <p>The ability to convert application code to other languages</p>	<p>Not available</p>
<p><b>Conversion options, AWS native services</b></p> <p>The ability to convert an application for deployment to AWS Cloud native services</p>	<p>Not available</p>

Category	Product capabilities
<p><b>Conversion options, AWS managed container services</b></p> <p>The ability to convert an application for deployment to AWS managed container services</p>	Not available
<p><b>Conversion options, AWS serverless services</b></p> <p>The ability to convert an application to a serverless architecture based on AWS Lambda and Amazon API Gateway</p>	Not available
<p><b>Conversion options, licensing</b></p> <p>The ability to convert licensing mechanisms. For example replace a BYOL license with an AWS license-included option</p>	Available
<p><b>Data import</b></p> <p>The ability to import data from other telemetry sources and applications in common formats, such as CSV, JSON, YAML, or API</p>	Available
<p><b>Data export</b></p> <p>The ability to export discovered data into a usable format, such as CSV, JSON, YAML, or API</p>	Available
<p><b>Data sovereignty support</b></p> <p>The ability to store data on premises or at a designated location based on the data protection policies or government data sovereignty regulations</p>	Yes

# Stromasys Charon family of emulators

Last update: June 3, 2024

## Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Stromasys Charon</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	Migration and Modernization ISV Competency
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Virtualization for SPARC on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> </ul>
<b>Compliance</b>	General Data Protection Regulation (GDPR)
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> </ul>

Category	Product capabilities
	<ul style="list-style-type: none"> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<b>Pricing model</b>	Subscription

## Application mobility capabilities

Category	Product capabilities
<p><b>Replication method</b></p> <p>The ability to support one or more of the following replication methods:</p> <ul style="list-style-type: none"> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	Login-based
<p><b>Supported sources</b></p> <p>The hosting environments that the product can migrate applications from</p>	Physical servers with Sun SPARC, HP PA-RISC, DEC Alpha, VAX, and PDP-11 hardware
<p><b>Application data collection</b></p> <p>The ability to collect data to support application transformation, such as code from .NET legacy to .NET core, monolith-</p>	Not available

Category	Product capabilities
to-microservices code conversions, or server-to-container conversions	
<b>Supported operating systems</b>  Operating systems that the product can migrate	<ul style="list-style-type: none"> <li>• HP-UX</li> <li>• Solaris</li> <li>• Other – OpenVMS, Tru64 UNIX, MPE</li> </ul>
<b>Supported targets</b>  Resources that the product can migrate to	Amazon Elastic Compute Cloud (Amazon EC2)
<b>Source code repository integration</b>  Repositories that the product can analyze to support application transformation	Not available
<b>Deployment integration</b>  Services that the product integrates with to support deployment	Jenkins
<b>Infrastructure as code templates</b>  Templates that the product can generate to support application deployment	Not available
<b>Notifications</b>  Methods that the product can use to notify you of progress or issues	<ul style="list-style-type: none"> <li>• Email</li> <li>• Logs</li> </ul>
<b>Replication options, continuous asynchronous replication</b>	Not available

Category	Product capabilities
<p><b>Replication options, bandwidth consumption</b></p> <p>The ability to manage bandwidth consumption, such as by using throttling or parallel replication streams</p>	Not available
<p><b>Replication options, storage types</b></p> <p>The ability to select storage types for both temporary and target replication disk volumes to manage performance and cost</p>	Not available
<p><b>Replication options, reporting progress</b></p> <p>The ability to report replication progress, including success, stall, or failure states, and send events or alerts for those states</p>	Available
<p><b>Conversion options, programming languages</b></p> <p>The ability to convert application code to other languages</p>	Converts binary code from Sun SPARC, HP PA-RISC, DEC Alpha, VAX, and PDP-11 to x86 binary code
<p><b>Conversion options, AWS native services</b></p> <p>The ability to convert an application for deployment to AWS Cloud native services</p>	Not available
<p><b>Conversion options, AWS managed container services</b></p> <p>The ability to convert an application for deployment to AWS managed container services</p>	Not available

Category	Product capabilities
<p><b>Conversion options, AWS serverless services</b></p> <p>The ability to convert an application to a serverless architecture based on AWS Lambda and Amazon API Gateway</p>	Not available
<p><b>Conversion options, licensing</b></p> <p>The ability to convert licensing mechanisms. For example replace a BYOL license with an AWS license-included option</p>	Not available
<p><b>Data import</b></p> <p>The ability to import data from other telemetry sources and applications in common formats, such as CSV, JSON, YAML, or API</p>	Not available
<p><b>Data export</b></p> <p>The ability to export discovered data into a usable format, such as CSV, JSON, YAML, or API</p>	Not available
<p><b>Data sovereignty support</b></p> <p>The ability to store data on premises or at a designated location based on the data protection policies or government data sovereignty regulations</p>	Yes

# Data mobility migration tools

Data mobility tools help you move large volumes of data and databases to the AWS Cloud efficiently and securely. Capabilities of these tools might include automated data validation, compression, deduplication, and bandwidth optimization. These tools are designed for different network constraints, data volumes, and security requirements.

This section is intended to help you choose the most appropriate tool for your situation. If specific features or capabilities are critical to your use case, you can use the filter categories and attributes available on [Data Mobility migration tools](#) in order to view only the tools that match your criteria.

**This section describes the following data mobility tools and their capabilities:**

- [Cirata Data Migrator](#)
- [Komprise Elastic Data Migration](#)
- [Tessell DBaaS](#)
- [Vcinity Ultimate X](#)

## Cirata Data Migrator

*Last update: November 15, 2024*

### Notice

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## Product overview

Category	Product capabilities
Product website	<a href="#">Cirata Data Migrator</a>

Category	Product capabilities
<p><b>Product certifications</b></p> <p><a href="#">AWS Competency Program</a> competencies and other certifications</p>	<p>Migration and Modernization ISV Competency</p>
<p><b>AWS Marketplace</b></p> <p>Link to subscribe or download</p>	<p><a href="#">Cirata Data Migrator on AWS Marketplace</a></p>
<p><b>Tool deployment model</b></p> <p>Product can be SaaS-based or customer-deployed</p>	<ul style="list-style-type: none"> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<p><b>Compliance</b></p>	<p>General Data Protection Regulation (GDPR)</p>
<p><b>Service model</b></p>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> <li>• Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
<p><b>Pricing model</b></p>	<p>Subscription</p>

## Data migration

Category	Product capabilities
<p><b>Replication method</b></p> <p>The ability to support one or more of the following replication methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<p>Agent-based</p>
<p><b>Replication source</b></p> <p>Support for one or more of the following sources:</p> <ul style="list-style-type: none"> <li>• Block</li> <li>• File</li> <li>• Object</li> <li>• Tape</li> <li>• Other</li> </ul>	<ul style="list-style-type: none"> <li>• File</li> <li>• Object</li> </ul>
<p><b>Automation</b></p> <p>The ability to manage a migration through scheduling controls:</p> <ul style="list-style-type: none"> <li>• Product can be accessed, configured, and managed programmatically</li> <li>• Product can schedule migration jobs</li> <li>• Product can pause and resume migrations</li> </ul>	<ul style="list-style-type: none"> <li>• Access programmatically</li> <li>• Schedule migrations</li> <li>• Pause and resume migration</li> <li>• Schedule bandwidth throttling</li> </ul>

Category	Product capabilities
<ul style="list-style-type: none"> <li>Product can schedule bandwidth throttling (for example, to increase throughput during off-peak periods)</li> </ul>	
<p><b>Performance</b></p> <p>The ability to optimize performance:</p> <ul style="list-style-type: none"> <li>Manage bandwidth consumption, such as through throttling</li> <li>Compress data before transfer to reduce network traffic</li> <li>Run multithreaded or concurrent process for data migration tasks</li> </ul>	<ul style="list-style-type: none"> <li>Managed bandwidth consumption</li> <li>Multithreaded or concurrent process support</li> </ul>
<p><b>Security</b></p> <p>The ability to secure the product and data transfers:</p> <ul style="list-style-type: none"> <li>Encrypt data in transit from source to destination</li> <li>Support the use of customer-provided encryption keys</li> <li>Store all actions requested by the user and performed by the tool in a tamper-proof audit log</li> <li>Integrate with third-party identity providers for authentication</li> </ul>	<ul style="list-style-type: none"> <li>Encrypt data in transit from source to destination</li> <li>Store all actions requested by the user and performed by the tool in a tamper-proof audit log</li> <li>Integrate with third-party identity providers for authentication</li> </ul>

Category	Product capabilities
<p><b>Synchronization type</b></p> <p>The ability to support multiple data-synchronization options:</p> <ul style="list-style-type: none"> <li>• One-time transfer</li> <li>• Periodic transfer</li> <li>• Continuous transfer</li> </ul>	<ul style="list-style-type: none"> <li>• One-time transfer</li> <li>• Periodic transfer</li> <li>• Continuous transfer</li> </ul>
<p><b>File-transfer options</b></p> <p>The ability to support file migration options:</p> <ul style="list-style-type: none"> <li>• Track all files copied previously and compare against source data in the subsequent copy</li> <li>• Copy only modified portions of a file instead of the entire file</li> <li>• Support include or exclude patterns for copying files and folders with simple or regular expression patterns</li> </ul>	<ul style="list-style-type: none"> <li>• Changed-file tracking</li> <li>• Include or exclude patterns</li> </ul>
<p><b>NFS and SMB options</b></p> <p>For Network File System (NFS) and Server Message Block (SMB) file systems, the ability to do the following:</p> <ul style="list-style-type: none"> <li>• Preserve symbolic link</li> <li>• Preserve hard link</li> <li>• Move open files</li> </ul>	<ul style="list-style-type: none"> <li>• Preserve symbolic link</li> <li>• Move open files</li> </ul>
<p><b>Data validation</b></p> <p>The ability to validate data transfers by using checksums for data integrity</p>	<p>Not available</p>

Category	Product capabilities
<p><b>Discovery</b></p> <p>The ability to scan and report on source system data (such as file name, type, size, usage, file timestamps, and summary statistics) and produce a pre-migration assessment report</p>	<p>Not available</p>
<p><b>Reporting and alerting</b></p> <p>The ability to report on data-transfer progress and statistics:</p> <ul style="list-style-type: none"> <li>• File and object transfer statistics</li> <li>• Network statistics</li> <li>• Time and duration statistics, including time taken and forecast completion</li> <li>• Generation of a detailed post-migration report</li> <li>• Generation of a full validation report after migration completion</li> <li>• Alerting on failure scenarios, job completion</li> </ul>	<ul style="list-style-type: none"> <li>• File and object transfer statistics</li> <li>• Network statistics</li> <li>• Time and duration statistics, including time taken and forecast completion</li> <li>• Generation of a detailed post-migration report</li> <li>• Generation of a full validation report after migration completion</li> <li>• Alerting on failure scenarios, job completion</li> </ul>
<p><b>Failure handling</b></p> <p>The ability to retry transfer operations if a network failure or connectivity issue occurs</p>	<p>Available</p>

## Database migration

Category	Product capabilities
<p><b>Migration approach</b></p> <ul style="list-style-type: none"> <li>• Homogeneous – Source and target engine are the same</li> <li>• Heterogeneous – Source and target engine are different</li> <li>• The ability to convert source database engine metadata to be compatible with the target database engine</li> <li>• The ability of the tool to migrate large database objects, such as LOB and binary data types</li> </ul>	<ul style="list-style-type: none"> <li>• Homogeneous</li> <li>• Heterogeneous</li> <li>• Schema conversion</li> <li>• Support for LOB data types</li> </ul>
<p><b>Source engine</b></p> <p>The ability to migrate specific database engines, such as IBM Db2 LUW, MariaDB, Microsoft SQL Server, MySQL, Oracle, PostgreSQL, or others</p>	<ul style="list-style-type: none"> <li>• Apache Hive</li> <li>• Apache Iceberg</li> <li>• Databricks</li> <li>• Snowflake</li> </ul>
<p><b>Migration type</b></p> <ul style="list-style-type: none"> <li>• Full load only – Perform a one-time migration from source to target</li> <li>• Full load with CDC – Perform full load with change data capture (CDC) to continue replication from source to target</li> <li>• CDC only – Don't perform a one-time migration, but continue to replicate data changes from the source to the target</li> </ul>	<p>Full load with CDC</p>

Category	Product capabilities
<ul style="list-style-type: none"> <li>Offline – Migrate large data sets by using offline methods or external storage devices</li> </ul>	
<p><b>Data transform</b></p> <p>The ability to transform data during the migration</p>	<p>Metadata only, transforms Apache Hive compatible formats to Delta Lake formats and Snowflake formats</p>
<p><b>Migration scope</b></p> <p>The ability to migrate metadata and application data:</p> <ul style="list-style-type: none"> <li>Metadata – Migrate database schema structure, including table, view, and stored procedure definition</li> <li>Table data – Migrate table data</li> </ul>	<ul style="list-style-type: none"> <li>Metadata</li> <li>Table data</li> </ul>
<p><b>Tool architecture, high availability</b></p> <p>The ability support one or more of the following high availability (HA) configurations:</p> <ul style="list-style-type: none"> <li>Built-in HA configuration</li> <li>Manual HA configuration</li> </ul>	<p>Manual HA configuration</p>
<p><b>Tool sizing</b></p> <p>The ability to size itself for the migration load:</p> <ul style="list-style-type: none"> <li>Intelligent sizing during discovery</li> <li>Manual sizing based on source database parameters, such as database size or change log</li> </ul>	<p>Manual sizing</p>

Category	Product capabilities
<p><b>Data-type support</b></p> <p>The ability to migrate standard and custom data types</p>	Standard
<p><b>Pre-migration assessment</b></p> <p>The ability to assess and warn of potential migration issues before starting the migration task</p>	Available
<p><b>Data validation</b></p> <p>The ability to compare the data at the source and the target immediately after it performs a full data load</p>	Available for all tables
<p><b>Monitoring and logging</b></p> <p>The ability to log and monitor the migration task and monitor tool performance</p>	<ul style="list-style-type: none"> <li>• Task logging</li> <li>• Task monitoring and alerts</li> <li>• Performance monitoring</li> </ul>
<p><b>Security</b></p> <p>The ability to retain data encryption (if any) from source to target</p>	Available
<p><b>Data selection</b></p> <p>The ability to migrate a subset of data</p>	Available
<p><b>Migration parallelism</b></p> <p>The ability to migrate multiple subsets of data in parallel</p>	Available. Metadata migration is defined based on the table and database pattern. If the metadata matches the pattern, it will be migrated in parallel based on the configured thread count and system limits.

# Komprise Elastic Data Migration

Last update: November 15, 2024

## Notice

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## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Komprise Elastic Data Migration</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	Migration and Modernization ISV Competency
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Komprise Intelligent Data Management on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• Servers deployed on AWS (customer VPC)</li> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on premises in customer environment</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	System and Organization Controls 2 (SOC 2)

Category	Product capabilities
Service model	Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support
Pricing model	Subscription

## Data migration

Category	Product capabilities
<p><b>Replication method</b></p> <p>The ability to support one or more of the following replication methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	Agent-based
<p><b>Replication source</b></p> <p>Support for one or more of the following sources:</p> <ul style="list-style-type: none"> <li>• Block</li> <li>• File</li> <li>• Object</li> <li>• Tape</li> </ul>	<ul style="list-style-type: none"> <li>• File</li> <li>• Object</li> <li>• Other – Any NFS, SMB, Object interface (including tape with file front-end)</li> </ul>

Category	Product capabilities
<ul style="list-style-type: none"> <li>• Other</li> </ul>	
<p><b>Automation</b></p> <p>The ability to manage a migration through scheduling controls:</p> <ul style="list-style-type: none"> <li>• Product can be accessed, configured, and managed programmatically</li> <li>• Product can schedule migration jobs</li> <li>• Product can pause and resume migrations</li> <li>• Product can schedule bandwidth throttling (for example, to increase throughput during off-peak periods)</li> </ul>	<ul style="list-style-type: none"> <li>• Access programmatically</li> <li>• Schedule migrations</li> <li>• Pause and resume migration</li> <li>• Schedule bandwidth throttling</li> </ul>
<p><b>Performance</b></p> <p>The ability to optimize performance:</p> <ul style="list-style-type: none"> <li>• Manage bandwidth consumption, such as through throttling</li> <li>• Compress data before transfer to reduce network traffic</li> <li>• Run multithreaded or concurrent process for data migration tasks</li> </ul>	<ul style="list-style-type: none"> <li>• Managed bandwidth consumption</li> <li>• Multithreaded or concurrent process support</li> </ul>

Category	Product capabilities
<p><b>Security</b></p> <p>The ability to secure the product and data transfers:</p> <ul style="list-style-type: none"> <li>• Encrypt data in transit from source to destination</li> <li>• Support the use of customer-provided encryption keys</li> <li>• Store all actions requested by the user and performed by the tool in a tamper-proof audit log</li> <li>• Integrate with third-party identity providers for authentication</li> </ul>	<ul style="list-style-type: none"> <li>• Encrypt data in transit from source to destination</li> <li>• Store all actions requested by the user and performed by the tool in a tamper-proof audit log</li> <li>• Integrate with third-party identity providers for authentication</li> </ul>
<p><b>Synchronization type</b></p> <p>The ability to support multiple data-synchronization options:</p> <ul style="list-style-type: none"> <li>• One-time transfer</li> <li>• Periodic transfer</li> <li>• Continuous transfer</li> </ul>	<ul style="list-style-type: none"> <li>• One-time transfer</li> <li>• Periodic transfer</li> <li>• Continuous transfer</li> </ul>
<p><b>File-transfer options</b></p> <p>The ability to support file migration options:</p> <ul style="list-style-type: none"> <li>• Track all files copied previously and compare against source data in the subsequent copy</li> <li>• Copy only modified portions of a file instead of the entire file</li> <li>• Support include or exclude patterns for copying files and folders with simple or regular expression patterns</li> </ul>	<ul style="list-style-type: none"> <li>• Changed-file tracking</li> <li>• Include or exclude patterns</li> </ul>

Category	Product capabilities
<p><b>NFS and SMB options</b></p> <p>For Network File System (NFS) and Server Message Block (SMB) file systems, the ability to do the following:</p> <ul style="list-style-type: none"><li>• Preserve symbolic link</li><li>• Preserve hard link</li><li>• Move open files</li></ul>	<ul style="list-style-type: none"><li>• Preserve symbolic link</li><li>• Preserve hard link</li></ul>
<p><b>Data validation</b></p> <p>The ability to validate data transfers by using checksums for data integrity</p>	Available
<p><b>Discovery</b></p> <p>The ability to scan and report on source system data (such as file name, type, size, usage, file timestamps, and summary statistics) and produce a pre-migration assessment report</p>	Available

Category	Product capabilities
<p><b>Reporting and alerting</b></p> <p>The ability to report on data-transfer progress and statistics:</p> <ul style="list-style-type: none"> <li>• File and object transfer statistics</li> <li>• Network statistics</li> <li>• Time and duration statistics, including time taken and forecast completion</li> <li>• Generation of a detailed post-migration report</li> <li>• Generation of a full validation report after migration completion</li> <li>• Alerting on failure scenarios, job completion</li> </ul>	<ul style="list-style-type: none"> <li>• File and object transfer statistics</li> <li>• Network statistics</li> <li>• Time and duration statistics, including time taken and forecast completion</li> <li>• Generation of a detailed post-migration report</li> <li>• Generation of a full validation report after migration completion</li> <li>• Alerting on failure scenarios, job completion</li> </ul>
<p><b>Failure handling</b></p> <p>The ability to retry transfer operations if a network failure or connectivity issue occurs</p>	<p>Available</p>

## Database migration

Not available

## Tessell DBaaS

*Last update: November 15, 2024*

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about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

## Product overview

Category	Product capabilities
<b>Product website</b>	<a href="#">Tessell</a>
<b>Product certifications</b>  <a href="#">AWS Competency Program</a> competencies and other certifications	Migration and Modernization ISV Competency
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Tessell DBaaS on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• SaaS on AWS (vendor VPC)</li> <li>• Servers deployed on AWS (customer VPC)</li> <li>• SaaS or servers in other cloud provider environment</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• International Organization for Standardization (ISO) 27001 and 27701</li> <li>• Payment card industry (PCI)</li> <li>• System and Organization Controls (SOC)</li> </ul>
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> </ul>

Category	Product capabilities
<b>Pricing model</b>	Subscription

## Data migration

Category	Product capabilities
<p><b>Replication method</b></p> <p>The ability to support one or more of the following replication methods:</p> <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<p>Login-based</p>
<p><b>Replication source</b></p> <p>Support for one or more of the following sources:</p> <ul style="list-style-type: none"> <li>• Block</li> <li>• File</li> <li>• Object</li> <li>• Tape</li> <li>• Other</li> </ul>	<ul style="list-style-type: none"> <li>• Block</li> <li>• File</li> </ul>
<p><b>Automation</b></p> <p>The ability to manage a migration through scheduling controls:</p>	<ul style="list-style-type: none"> <li>• Access programmatically</li> <li>• Schedule migrations</li> <li>• Pause and resume migration</li> </ul>

Category	Product capabilities
<ul style="list-style-type: none"> <li>• Product can be accessed, configured, and managed programmatically</li> <li>• Product can schedule migration jobs</li> <li>• Product can pause and resume migrations</li> <li>• Product can schedule bandwidth throttling (for example, to increase throughput during off-peak periods)</li> </ul>	<ul style="list-style-type: none"> <li>• Schedule bandwidth throttling</li> </ul>
<p><b>Performance</b></p> <p>The ability to optimize performance:</p> <ul style="list-style-type: none"> <li>• Manage bandwidth consumption, such as through throttling</li> <li>• Compress data before transfer to reduce network traffic</li> <li>• Run multithreaded or concurrent process for data migration tasks</li> </ul>	<ul style="list-style-type: none"> <li>• Managed bandwidth consumption</li> <li>• Compression before transfer</li> <li>• Multithreaded or concurrent process support</li> </ul>
<p><b>Security</b></p> <p>The ability to secure the product and data transfers:</p> <ul style="list-style-type: none"> <li>• Encrypt data in transit from source to destination</li> <li>• Support the use of customer-provided encryption keys</li> <li>• Store all actions requested by the user and performed by the tool in a tamper-proof audit log</li> <li>• Integrate with third-party identity providers for authentication</li> </ul>	<ul style="list-style-type: none"> <li>• Encrypt data in transit from source to destination</li> <li>• Support the use of customer-provided encryption keys</li> <li>• Store all actions requested by the user and performed by the tool in a tamper-proof audit log</li> <li>• Integrate with third-party identity providers for authentication</li> </ul>

Category	Product capabilities
<p><b>Synchronization type</b></p> <p>The ability to support multiple data-synchronization options:</p> <ul style="list-style-type: none"> <li>• One-time transfer</li> <li>• Periodic transfer</li> <li>• Continuous transfer</li> </ul>	<ul style="list-style-type: none"> <li>• One-time transfer</li> <li>• Periodic transfer</li> <li>• Continuous transfer</li> </ul>
<p><b>File-transfer options</b></p> <p>The ability to support file migration options:</p> <ul style="list-style-type: none"> <li>• Track all files copied previously and compare against source data in the subsequent copy</li> <li>• Copy only modified portions of a file instead of the entire file</li> <li>• Support include or exclude patterns for copying files and folders with simple or regular expression patterns</li> </ul>	<ul style="list-style-type: none"> <li>• Changed-file tracking</li> <li>• Copy for only modified portions of a file</li> </ul>
<p><b>NFS and SMB options</b></p> <p>For Network File System (NFS) and Server Message Block (SMB) file systems, the ability to do the following:</p> <ul style="list-style-type: none"> <li>• Preserve symbolic link</li> <li>• Preserve hard link</li> <li>• Move open files</li> </ul>	<p>Not available</p>
<p><b>Data validation</b></p> <p>The ability to validate data transfers by using checksums for data integrity</p>	<p>Available</p>

Category	Product capabilities
<p><b>Discovery</b></p> <p>The ability to scan and report on source system data (such as file name, type, size, usage, file timestamps, and summary statistics) and produce a pre-migration assessment report</p>	<p>Available</p>
<p><b>Reporting and alerting</b></p> <p>The ability to report on data-transfer progress and statistics:</p> <ul style="list-style-type: none"> <li>• File and object transfer statistics</li> <li>• Network statistics</li> <li>• Time and duration statistics, including time taken and forecast completion</li> <li>• Generation of a detailed post-migration report</li> <li>• Generation of a full validation report after migration completion</li> <li>• Alerting on failure scenarios, job completion</li> </ul>	<ul style="list-style-type: none"> <li>• File and object transfer statistics</li> <li>• Time and duration statistics, including time taken and forecast completion</li> <li>• Generation of a detailed post-migration report</li> <li>• Generation of a full validation report after migration completion</li> <li>• Alerting on failure scenarios, job completion</li> </ul>
<p><b>Failure handling</b></p> <p>The ability to retry transfer operations if a network failure or connectivity issue occurs</p>	<p>Available</p>

## Database migration

Category	Product capabilities
<p><b>Migration approach</b></p> <ul style="list-style-type: none"> <li>• Homogeneous – Source and target engine are the same</li> <li>• Heterogeneous – Source and target engine are different</li> <li>• The ability to convert source database engine metadata to be compatible with the target database engine</li> <li>• The ability of the tool to migrate large database objects, such as LOB and binary data types</li> </ul>	<ul style="list-style-type: none"> <li>• Homogeneous</li> <li>• Support for LOB data types, including BLOB, CLOB, NCLOB, and BFILE</li> </ul>
<p><b>Source engine</b></p> <p>The ability to migrate specific database engines, such as IBM Db2 LUW, MariaDB, Microsoft SQL Server, MySQL, Oracle, PostgreSQL, or others</p>	<ul style="list-style-type: none"> <li>• MariaDB</li> <li>• Microsoft SQL Server</li> <li>• Milvus</li> <li>• MongoDB</li> <li>• MySQL</li> <li>• Oracle</li> <li>• PostgreSQL</li> </ul>
<p><b>Migration type</b></p> <ul style="list-style-type: none"> <li>• Full load only – Perform a one-time migration from source to target</li> <li>• Full load with CDC – Perform full load with change data capture (CDC) to continue replication from source to target</li> <li>• CDC only – Don't perform a one-time migration, but continue to replicate data changes from the source to the target</li> </ul>	<ul style="list-style-type: none"> <li>• Full load with CDC</li> <li>• Offline</li> </ul>

Category	Product capabilities
<ul style="list-style-type: none"> <li>• Offline – Migrate large data sets by using offline methods or external storage devices</li> </ul>	
<p><b>Data transform</b></p> <p>The ability to transform data during the migration</p>	<ul style="list-style-type: none"> <li>• Metadata</li> <li>• Table data</li> </ul>
<p><b>Migration scope</b></p> <p>The ability to migrate metadata and application data:</p> <ul style="list-style-type: none"> <li>• Metadata – Migrate database schema structure, including table, view, and stored procedure definition</li> <li>• Table data – Migrate table data</li> </ul>	<ul style="list-style-type: none"> <li>• Metadata</li> <li>• Table data</li> </ul>
<p><b>Tool architecture, high availability</b></p> <p>The ability support one or more of the following high availability (HA) configurations:</p> <ul style="list-style-type: none"> <li>• Built-in HA configuration</li> <li>• Manual HA configuration</li> </ul>	<p>Built-in HA configuration</p>
<p><b>Tool sizing</b></p> <p>The ability to size itself for the migration load:</p> <ul style="list-style-type: none"> <li>• Intelligent sizing during discovery</li> <li>• Manual sizing based on source database parameters, such as database size or change log</li> </ul>	<ul style="list-style-type: none"> <li>• Intelligent sizing</li> <li>• Manual sizing</li> </ul>

Category	Product capabilities
<p><b>Data-type support</b></p> <p>The ability to migrate standard and custom data types</p>	<ul style="list-style-type: none"> <li>• Standard</li> <li>• Custom</li> </ul>
<p><b>Pre-migration assessment</b></p> <p>The ability to assess and warn of potential migration issues before starting the migration task</p>	<p>Available</p>
<p><b>Data validation</b></p> <p>The ability to compare the data at the source and the target immediately after it performs a full data load</p>	<p>Available for all tables</p>
<p><b>Monitoring and logging</b></p> <p>The ability to log and monitor the migration task and monitor tool performance</p>	<ul style="list-style-type: none"> <li>• Task logging</li> <li>• Task monitoring and alerts</li> <li>• Performance monitoring</li> </ul>
<p><b>Security</b></p> <p>The ability to retain data encryption (if any) from source to target</p>	<p>Available</p>
<p><b>Data selection</b></p> <p>The ability to migrate a subset of data</p>	<p>Available</p>

Category	Product capabilities
<p><b>Migration parallelism</b></p> <p>The ability to migrate multiple subsets of data in parallel</p>	<p>Available. Multiple degrees of parallelism can be achieved when taking an <a href="#">RMAN backup</a>.</p> <p>After the backup is restored, the subsequent data transfer through Oracle DataGuard happens serially in the order that the transactions were executed. The transfer is done this way so that the database at the destination always remains consistent and readable.</p>

## Vcinity Ultimate X

Last update: November 15, 2024

### Notice

AWS Partner product descriptions and reported qualifications, including compliance, are provided by the AWS Partner and are not verified by AWS. For more information about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

## Product overview

Category	Product capabilities
<p><b>Product website</b></p>	<p><a href="#">Vcinity Ultimate X</a></p>
<p><b>Product certifications</b></p> <p><a href="#">AWS Competency Program</a> competencies and other certifications</p>	<p>Migration and Modernization ISV Competency</p>

Category	Product capabilities
<b>AWS Marketplace</b>  Link to subscribe or download	<a href="#">Vcinity Ultimate X on AWS Marketplace</a>
<b>Tool deployment model</b>  Product can be SaaS-based or customer-deployed	<ul style="list-style-type: none"> <li>• Servers deployed on AWS (customer VPC)</li> <li>• Servers deployed on premises in customer environment</li> </ul>
<b>Compliance</b>	Not available
<b>Service model</b>	<ul style="list-style-type: none"> <li>• Full self-service – Deployment, management, and maintenance can be done by the customer or end-user</li> <li>• Self-service with vendor support – Deployment, management, and maintenance can be done by customer or end-user with the option of vendor support</li> </ul>
<b>Pricing model</b>	Subscription

## Data migration

Category	Product capabilities
<b>Replication method</b>  The ability to support one or more of the following replication methods: <ul style="list-style-type: none"> <li>• Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>• Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> </ul>	Login-based

Category	Product capabilities
<ul style="list-style-type: none"> <li>• Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
<p><b>Replication source</b></p> <p>Support for one or more of the following sources:</p> <ul style="list-style-type: none"> <li>• Block</li> <li>• File</li> <li>• Object</li> <li>• Tape</li> <li>• Other</li> </ul>	<ul style="list-style-type: none"> <li>• File</li> <li>• Object</li> </ul>
<p><b>Automation</b></p> <p>The ability to manage a migration through scheduling controls:</p> <ul style="list-style-type: none"> <li>• Product can be accessed, configured, and managed programmatically</li> <li>• Product can schedule migration jobs</li> <li>• Product can pause and resume migrations</li> <li>• Product can schedule bandwidth throttling (for example, to increase throughput during off-peak periods)</li> </ul>	<p>Access programmatically</p>

Category	Product capabilities
<p><b>Performance</b></p> <p>The ability to optimize performance:</p> <ul style="list-style-type: none"> <li>• Manage bandwidth consumption, such as through throttling</li> <li>• Compress data before transfer to reduce network traffic</li> <li>• Run multithreaded or concurrent process for data migration tasks</li> </ul>	<ul style="list-style-type: none"> <li>• Managed bandwidth consumption</li> <li>• Compression before transfer</li> <li>• Multithreaded or concurrent process support</li> </ul>
<p><b>Security</b></p> <p>The ability to secure the product and data transfers:</p> <ul style="list-style-type: none"> <li>• Encrypt data in transit from source to destination</li> <li>• Support the use of customer-provided encryption keys</li> <li>• Store all actions requested by the user and performed by the tool in a tamper-proof audit log</li> <li>• Integrate with third-party identity providers for authentication</li> </ul>	<ul style="list-style-type: none"> <li>• Encrypt data in transit from source to destination</li> <li>• Support the use of customer-provided encryption keys</li> <li>• Store all actions requested by the user and performed by the tool in a tamper-proof audit log</li> </ul>
<p><b>Synchronization type</b></p> <p>The ability to support multiple data-synchronization options:</p> <ul style="list-style-type: none"> <li>• One-time transfer</li> <li>• Periodic transfer</li> <li>• Continuous transfer</li> </ul>	<p>One-time transfer</p>

Category	Product capabilities
<p><b>File-transfer options</b></p> <p>The ability to support file migration options:</p> <ul style="list-style-type: none"><li>• Track all files copied previously and compare against source data in the subsequent copy</li><li>• Copy only modified portions of a file instead of the entire file</li><li>• Support include or exclude patterns for copying files and folders with simple or regular expression patterns</li></ul>	Not available
<p><b>NFS and SMB options</b></p> <p>For Network File System (NFS) and Server Message Block (SMB) file systems, the ability to do the following:</p> <ul style="list-style-type: none"><li>• Preserve symbolic link</li><li>• Preserve hard link</li><li>• Move open files</li></ul>	Not available
<p><b>Data validation</b></p> <p>The ability to validate data transfers by using checksums for data integrity</p>	Available
<p><b>Discovery</b></p> <p>The ability to scan and report on source system data (such as file name, type, size, usage, file timestamps, and summary statistics) and produce a pre-migration assessment report</p>	Not available

Category	Product capabilities
<p><b>Reporting and alerting</b></p> <p>The ability to report on data-transfer progress and statistics:</p> <ul style="list-style-type: none"> <li>• File and object transfer statistics</li> <li>• Network statistics</li> <li>• Time and duration statistics, including time taken and forecast completion</li> <li>• Generation of a detailed post-migration report</li> <li>• Generation of a full validation report after migration completion</li> <li>• Alerting on failure scenarios, job completion</li> </ul>	<ul style="list-style-type: none"> <li>• File and object transfer statistics</li> <li>• Network statistics</li> <li>• Time and duration statistics, including time taken and forecast completion</li> <li>• Generation of a detailed post-migration report</li> <li>• Generation of a full validation report after migration completion</li> <li>• Alerting on failure scenarios, job completion</li> </ul>
<p><b>Failure handling</b></p> <p>The ability to retry transfer operations if a network failure or connectivity issue occurs</p>	<p>Available</p>

## Database migration

Not available

## Document history

The following table describes significant changes to this guide. If you want to be notified about future updates, you can subscribe to an [RSS feed](#).

Change	Description	Date
<a href="#">Added Concierto.cloud</a>	We added Concierto.cloud to the <a href="#">Discovery tools</a> , <a href="#">Business case tools</a> , and <a href="#">Application mobility tools</a> sections.	November 17, 2025
<a href="#">Initial publication</a>	We migrated the information from an AWS web page to a comprehensive guide.	March 21, 2025