



API Reference

Amazon Bedrock AgentCore Data Plane



API Version 2024-02-28

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Amazon Bedrock AgentCore Data Plane: API Reference

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Welcome

Welcome to the Amazon Bedrock AgentCore Data Plane API reference. Data Plane actions process and handle data or workloads within AWS services.

This document was last published on April 18, 2026.

Actions

The following actions are supported:

- [BatchCreateMemoryRecords](#)
- [BatchDeleteMemoryRecords](#)
- [BatchUpdateMemoryRecords](#)
- [CompleteResourceTokenAuth](#)
- [CreateEvent](#)
- [DeleteEvent](#)
- [DeleteMemoryRecord](#)
- [Evaluate](#)
- [GetAgentCard](#)
- [GetBrowserSession](#)
- [GetCodeInterpreterSession](#)
- [GetEvent](#)
- [GetMemoryRecord](#)
- [GetResourceApiKey](#)
- [GetResourceOauth2Token](#)
- [GetWorkloadAccessToken](#)
- [GetWorkloadAccessTokenForJWT](#)
- [GetWorkloadAccessTokenForUserId](#)
- [InvokeAgentRuntime](#)
- [InvokeAgentRuntimeCommand](#)
- [InvokeBrowser](#)
- [InvokeCodeInterpreter](#)
- [ListActors](#)
- [ListBrowserSessions](#)
- [ListCodeInterpreterSessions](#)
- [ListEvents](#)
- [ListMemoryExtractionJobs](#)

- [ListMemoryRecords](#)
- [ListSessions](#)
- [RetrieveMemoryRecords](#)
- [SaveBrowserSessionProfile](#)
- [SearchRegistryRecords](#)
- [StartBrowserSession](#)
- [StartCodeInterpreterSession](#)
- [StartMemoryExtractionJob](#)
- [StopBrowserSession](#)
- [StopCodeInterpreterSession](#)
- [StopRuntimeSession](#)
- [UpdateBrowserStream](#)

BatchCreateMemoryRecords

Creates multiple memory records in a single batch operation for the specified memory with custom content.

Request Syntax

```
POST /memories/memoryId/memoryRecords/batchCreate HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "clientToken": "string",
  "records": [
    {
      "content": { ... },
      "memoryStrategyId": "string",
      "namespaces": [ "string" ],
      "requestIdentifier": "string",
      "timestamp": number
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The unique ID of the memory resource where records will be created.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}]-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier to ensure idempotent processing of the batch request.

Type: String

Required: No

records

A list of memory record creation inputs to be processed in the batch operation.

Type: Array of [MemoryRecordCreateInput](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: Yes

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "failedRecords": [
    {
      "errorCode": number,
      "errorMessage": "string",
      "memoryRecordId": "string",
      "requestIdentifier": "string",
      "status": "string"
    }
  ],
  "successfulRecords": [
    {
      "errorCode": number,
      "errorMessage": "string",
      "memoryRecordId": "string",
      "requestIdentifier": "string",
      "status": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

failedRecords

A list of memory records that failed to be created, including error details for each failure.

Type: Array of [MemoryRecordOutput](#) objects

successfulRecords

A list of memory records that were successfully created during the batch operation.

Type: Array of [MemoryRecordOutput](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

BatchDeleteMemoryRecords

Deletes multiple memory records in a single batch operation from the specified memory.

Request Syntax

```
POST /memories/memoryId/memoryRecords/batchDelete HTTP/1.1  
Content-type: application/json
```

```
{  
  "records": [  
    {  
      "memoryRecordId": "string"  
    }  
  ]  
}
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The unique ID of the memory resource where records will be deleted.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

records

A list of memory record deletion inputs to be processed in the batch operation.

Type: Array of [MemoryRecordDeleteInput](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "failedRecords": [
    {
      "errorCode": number,
      "errorMessage": "string",
      "memoryRecordId": "string",
      "requestIdentifier": "string",
      "status": "string"
    }
  ],
  "successfulRecords": [
    {
      "errorCode": number,
      "errorMessage": "string",
      "memoryRecordId": "string",
      "requestIdentifier": "string",
      "status": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

failedRecords

A list of memory records that failed to be deleted, including error details for each failure.

Type: Array of [MemoryRecordOutput](#) objects

[successfulRecords](#)

A list of memory records that were successfully deleted during the batch operation.

Type: Array of [MemoryRecordOutput](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

BatchUpdateMemoryRecords

Updates multiple memory records with custom content in a single batch operation within the specified memory.

Request Syntax

```
POST /memories/memoryId/memoryRecords/batchUpdate HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "records": [
    {
      "content": { ... },
      "memoryRecordId": "string",
      "memoryStrategyId": "string",
      "namespaces": [ "string" ],
      "timestamp": number
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The unique ID of the memory resource where records will be updated.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

records

A list of memory record update inputs to be processed in the batch operation.

Type: Array of [MemoryRecordUpdateInput](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "failedRecords": [
    {
      "errorCode": number,
      "errorMessage": "string",
      "memoryRecordId": "string",
      "requestIdentifier": "string",
      "status": "string"
    }
  ],
  "successfulRecords": [
    {
      "errorCode": number,
      "errorMessage": "string",
      "memoryRecordId": "string",
      "requestIdentifier": "string",
      "status": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

failedRecords

A list of memory records that failed to be updated, including error details for each failure.

Type: Array of [MemoryRecordOutput](#) objects

successfulRecords

A list of memory records that were successfully updated during the batch operation.

Type: Array of [MemoryRecordOutput](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CompleteResourceTokenAuth

Confirms the user authentication session for obtaining OAuth2.0 tokens for a resource.

Request Syntax

```
POST /identities/CompleteResourceTokenAuth HTTP/1.1
Content-type: application/json

{
  "sessionUri": "string",
  "userIdentifier": { ... }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

sessionUri

Unique identifier for the user's authentication session for retrieving OAuth2 tokens. This ID tracks the authorization flow state across multiple requests and responses during the OAuth2 authentication process.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `urn:ietf:params:oauth:request_uri:[a-zA-Z0-9-._~]+`

Required: Yes

userIdentifier

The OAuth2.0 token or user ID that was used to generate the workload access token used for initiating the user authorization flow to retrieve OAuth2.0 tokens.

Type: [UserIdentifier](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateEvent

Creates an event in an AgentCore Memory resource. Events represent interactions or activities that occur within a session and are associated with specific actors.

To use this operation, you must have the `bedrock-agentcore:CreateEvent` permission.

This operation is subject to request rate limiting.

Request Syntax

```
POST /memories/memoryId/events HTTP/1.1
Content-type: application/json
```

```
{
  "actorId": "string",
  "branch": {
    "name": "string",
    "rootEventId": "string"
  },
  "clientToken": "string",
  "eventTimestamp": number,
  "metadata": {
    "string" : { ... }
  },
  "payload": [
    { ... }
  ],
  "sessionId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The identifier of the AgentCore Memory resource in which to create the event.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}]-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

actorId

The identifier of the actor associated with this event. An actor represents an entity that participates in sessions and generates events.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*(?::[a-zA-Z0-9-_/]+)*[a-zA-Z0-9-_/]*`

Required: Yes

branch

The branch information for this event. Branches allow for organizing events into different conversation threads or paths.

Type: [Branch](#) object

Required: No

clientToken

A unique, case-sensitive identifier to ensure that the operation completes no more than one time. If this token matches a previous request, AgentCore ignores the request, but does not return an error.

Type: String

Required: No

eventTimestamp

The timestamp when the event occurred. If not specified, the current time is used.

Type: Timestamp

Required: Yes

metadata

The key-value metadata to attach to the event.

Type: String to [MetadataValue](#) object map

Map Entries: Minimum number of 0 items. Maximum number of 15 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[a-zA-Z0-9\s._:/=+@-]*`

Required: No

payload

The content payload of the event. This can include conversational data or binary content.

Type: Array of [PayloadType](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: Yes

sessionId

The identifier of the session in which this event occurs. A session represents a sequence of related events.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_*]`

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
```

```
"event": {
  "actorId": "string",
  "branch": {
    "name": "string",
    "rootEventId": "string"
  },
  "eventId": "string",
  "eventTimestamp": number,
  "memoryId": "string",
  "metadata": {
    "string" : { ... }
  },
  "payload": [
    { ... }
  ],
  "sessionId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

event

The event that was created.

Type: [Event](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

RetryableConflictException

The exception that occurs when there is a retryable conflict performing an operation. This is a temporary condition that may resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 409

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteEvent

Deletes an event from an AgentCore Memory resource. When you delete an event, it is permanently removed.

To use this operation, you must have the `bedrock-agentcore:DeleteEvent` permission.

Request Syntax

```
DELETE /memories/memoryId/actor/actorId/sessions/sessionId/events/eventId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

actorId

The identifier of the actor associated with the event to delete.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*(?::[a-zA-Z0-9-_/]+)*[a-zA-Z0-9-_/]*`

Required: Yes

eventId

The identifier of the event to delete.

Pattern: `[0-9]+#[a-fA-F0-9]+`

Required: Yes

memoryId

The identifier of the AgentCore Memory resource from which to delete the event.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_]{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

sessionId

The identifier of the session containing the event to delete.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_*]`*

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "eventId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

eventId

The identifier of the event that was deleted.

Type: String

Pattern: `[0-9]+#[a-zA-F0-9]+`

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteMemoryRecord

Deletes a memory record from an AgentCore Memory resource. When you delete a memory record, it is permanently removed.

To use this operation, you must have the `bedrock-agentcore:DeleteMemoryRecord` permission.

Request Syntax

```
DELETE /memories/memoryId/memoryRecords/memoryRecordId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The identifier of the AgentCore Memory resource from which to delete the memory record.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

memoryRecordId

The identifier of the memory record to delete.

Length Constraints: Minimum length of 40. Maximum length of 50.

Pattern: `mem-[a-zA-Z0-9-_*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "memoryRecordId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[memoryRecordId](#)

The identifier of the memory record that was deleted.

Type: String

Length Constraints: Minimum length of 40. Maximum length of 50.

Pattern: mem-[a-zA-Z0-9-_*]

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Evaluate

Performs on-demand evaluation of agent traces using a specified evaluator. This synchronous API accepts traces in OpenTelemetry format and returns immediate scoring results with detailed explanations.

Request Syntax

```
POST /evaluations/evaluate/evaluatorId HTTP/1.1
Content-type: application/json
```

```
{
  "evaluationInput": { ... },
  "evaluationReferenceInputs": [
    {
      "assertions": [
        { ... }
      ],
      "context": { ... },
      "expectedResponse": { ... },
      "expectedTrajectory": {
        "toolNames": [ "string" ]
      }
    }
  ],
  "evaluationTarget": { ... }
}
```

URI Request Parameters

The request uses the following URI parameters.

evaluatorId

The unique identifier of the evaluator to use for scoring. Can be a built-in evaluator (e.g., `Builtin.Helpfulness`, `Builtin.Correctness`) or a custom evaluator Id created through the control plane API.

Pattern: `(Builtin.[a-zA-Z0-9_-]+|[a-zA-Z][a-zA-Z0-9-_{0,99}}-[a-zA-Z0-9]{10})`

Required: Yes

Request Body

The request accepts the following data in JSON format.

evaluationInput

The input data containing agent session spans to be evaluated. Includes a list of spans in OpenTelemetry format from supported frameworks like Strands (AgentCore Runtime) or LangGraph with OpenInference instrumentation.

Type: [EvaluationInput](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

evaluationReferenceInputs

Ground truth data to compare against agent responses during evaluation. Allows to provide expected responses, assertions, and expected tool trajectories at different evaluation levels. Session-level reference inputs apply to the entire conversation, while trace-level reference inputs target specific request-response interactions identified by trace ID.

Type: Array of [EvaluationReferenceInput](#) objects

Array Members: Minimum number of 1 item. Maximum number of 1000 items.

Required: No

evaluationTarget

The specific trace or span IDs to evaluate within the provided input. Allows targeting evaluation at different levels: individual tool calls, single request-response interactions (traces), or entire conversation sessions.

Type: [EvaluationTarget](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "evaluationResults": [
    {
      "context": { ... },
      "errorCode": "string",
      "errorMessage": "string",
      "evaluatorArn": "string",
      "evaluatorId": "string",
      "evaluatorName": "string",
      "explanation": "string",
      "ignoredReferenceInputFields": [ "string" ],
      "label": "string",
      "tokenUsage": {
        "inputTokens": number,
        "outputTokens": number,
        "totalTokens": number
      },
      "value": number
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

evaluationResults

The detailed evaluation results containing scores, explanations, and metadata. Includes the evaluator information, numerical or categorical ratings based on the evaluator's rating scale, and token usage statistics for the evaluation process.

Type: Array of [EvaluationResultContent](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

DuplicateIdException

An exception thrown when attempting to create a resource with an identifier that already exists.

HTTP Status Code: 409

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetAgentCard

Retrieves the A2A agent card associated with an AgentCore Runtime agent.

Request Syntax

```
GET /runtimes/agentRuntimeArn/invocations/.well-known/agent-card.json?  
qualifier=qualifier HTTP/1.1  
X-Amzn-Bedrock-AgentCore-Runtime-Session-Id: runtimeSessionId
```

URI Request Parameters

The request uses the following URI parameters.

agentRuntimeArn

The ARN of the AgentCore Runtime agent for which you want to get the A2A agent card.

Required: Yes

qualifier

Optional qualifier to specify an agent alias, such as `prodcode>` or `dev`. If you don't provide a value, the DEFAULT alias is used.

runtimeSessionId

The session ID that the AgentCore Runtime agent is using.

Length Constraints: Minimum length of 33. Maximum length of 256.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 statusCode  
X-Amzn-Bedrock-AgentCore-Runtime-Session-Id: runtimeSessionId
```

Response Elements

If the action is successful, the service sends back the following HTTP response.

statusCode

The status code of the request.

The response returns the following HTTP headers.

runtimeSessionId

The ID of the session associated with the AgentCore Runtime agent.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_*]`*

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

RuntimeClientError

The exception that occurs when there is an error in the runtime client. This can happen due to network issues, invalid configuration, or other client-side problems. Check the error message for specific details about the error.

HTTP Status Code: 424

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetBrowserSession

Retrieves detailed information about a specific browser session in Amazon Bedrock AgentCore. This operation returns the session's configuration, current status, associated streams, and metadata.

To get a browser session, you must specify both the browser identifier and the session ID. The response includes information about the session's viewport configuration, timeout settings, and stream endpoints.

The following operations are related to `GetBrowserSession`:

- [StartBrowserSession](#)
- [ListBrowserSessions](#)
- [StopBrowserSession](#)

Request Syntax

```
GET /browsers/browserIdentifier/sessions/get?sessionId=sessionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[browserIdentifier](#)

The unique identifier of the browser associated with the session.

Required: Yes

[sessionId](#)

The unique identifier of the browser session to retrieve.

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "browserIdentifier": "string",
  "certificates": [
    {
      "location": { ... }
    }
  ],
  "createdAt": "string",
  "enterprisePolicies": [
    {
      "location": { ... },
      "type": "string"
    }
  ],
  "extensions": [
    {
      "location": { ... }
    }
  ],
  "lastUpdatedAt": "string",
  "name": "string",
  "profileConfiguration": {
    "profileIdentifier": "string"
  },
  "proxyConfiguration": {
    "bypass": {
      "domainPatterns": [ "string" ]
    },
    "proxies": [
      { ... }
    ]
  },
  "sessionId": "string",
  "sessionReplayArtifact": "string",
  "sessionTimeoutSeconds": number,
  "status": "string",
  "streams": {
    "automationStream": {
```

```
    "streamEndpoint": "string",
    "streamStatus": "string"
  },
  "liveViewStream": {
    "streamEndpoint": "string"
  }
},
"viewport": {
  "height": number,
  "width": number
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

browserIdentifier

The identifier of the browser.

Type: String

certificates

The list of certificates installed in the browser session.

Type: Array of [Certificate](#) objects

Array Members: Minimum number of 1 item. Maximum number of 200 items.

createdAt

The time at which the browser session was created.

Type: Timestamp

enterprisePolicies

A list of files containing enterprise policies for the browser session.

Type: Array of [BrowserEnterprisePolicy](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

extensions

The list of browser extensions that are configured in the browser session.

Type: Array of [BrowserExtension](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

lastUpdatedAt

The time at which the browser session was last updated.

Type: Timestamp

name

The name of the browser session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

profileConfiguration

The browser profile configuration associated with this session. Contains the profile identifier that links to persistent browser data such as cookies and local storage.

Type: [BrowserProfileConfiguration](#) object

proxyConfiguration

The active proxy configuration for this browser session. This field is only present if proxy configuration was provided when the session was started using `StartBrowserSession`. The configuration includes proxy servers, domain bypass rules and the proxy authentication credentials.

Type: [ProxyConfiguration](#) object

sessionId

The identifier of the browser session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

[sessionReplayArtifact](#)

The artifact containing the session replay information.

Type: String

[sessionTimeoutSeconds](#)

The timeout period for the browser session in seconds.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 28800.

[status](#)

The current status of the browser session. Possible values include ACTIVE, STOPPING, and STOPPED.

Type: String

Valid Values: READY | TERMINATED

[streams](#)

The streams associated with this browser session. These include the automation stream and live view stream.

Type: [BrowserSessionStream](#) object

[viewPort](#)

The configuration that defines the dimensions of a browser viewport in a browser session. The viewport determines the visible area of web content and affects how web pages are rendered and displayed. Proper viewport configuration ensures that web content is displayed correctly for the agent's browsing tasks.

Type: [ViewPort](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetCodeInterpreterSession

Retrieves detailed information about a specific code interpreter session in Amazon Bedrock AgentCore. This operation returns the session's configuration, current status, and metadata.

To get a code interpreter session, you must specify both the code interpreter identifier and the session ID. The response includes information about the session's timeout settings and current status.

The following operations are related to `GetCodeInterpreterSession`:

- [StartCodeInterpreterSession](#)
- [ListCodeInterpreterSessions](#)
- [StopCodeInterpreterSession](#)

Request Syntax

```
GET /code-interpreters/codeInterpreterIdentifier/sessions/get?sessionId=sessionId
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[codeInterpreterIdentifier](#)

The unique identifier of the code interpreter associated with the session.

Required: Yes

[sessionId](#)

The unique identifier of the code interpreter session to retrieve.

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificates": [
    {
      "location": { ... }
    }
  ],
  "codeInterpreterIdentifier": "string",
  "createdAt": "string",
  "name": "string",
  "sessionId": "string",
  "sessionTimeoutSeconds": number,
  "status": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

certificates

The list of certificates installed in the code interpreter session.

Type: Array of [Certificate](#) objects

Array Members: Minimum number of 1 item. Maximum number of 200 items.

codeInterpreterIdentifier

The identifier of the code interpreter.

Type: String

createdAt

The time at which the code interpreter session was created.

Type: Timestamp

name

The name of the code interpreter session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

sessionId

The identifier of the code interpreter session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

sessionTimeoutSeconds

The timeout period for the code interpreter session in seconds.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 28800.

status

The current status of the code interpreter session. Possible values include ACTIVE, STOPPING, and STOPPED.

Type: String

Valid Values: READY | TERMINATED

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetEvent

Retrieves information about a specific event in an AgentCore Memory resource.

To use this operation, you must have the `bedrock-agentcore:GetEvent` permission.

Request Syntax

```
GET /memories/memoryId/actor/actorId/sessions/sessionId/events/eventId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

actorId

The identifier of the actor associated with the event.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*(?::[a-zA-Z0-9-_/]+)*[a-zA-Z0-9-_/]*`

Required: Yes

eventId

The identifier of the event to retrieve.

Pattern: `[0-9]+#[a-fA-F0-9]+`

Required: Yes

memoryId

The identifier of the AgentCore Memory resource containing the event.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}]-[a-zA-Z0-9]{10}`

Required: Yes

sessionId

The identifier of the session containing the event.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9][a-zA-Z0-9-_*]

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "event": {
    "actorId": "string",
    "branch": {
      "name": "string",
      "rootEventId": "string"
    },
    "eventId": "string",
    "eventTimestamp": number,
    "memoryId": "string",
    "metadata": {
      "string" : { ... }
    },
    "payload": [
      { ... }
    ],
    "sessionId": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

event

The requested event information.

Type: [Event](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetMemoryRecord

Retrieves a specific memory record from an AgentCore Memory resource.

To use this operation, you must have the `bedrock-agentcore:GetMemoryRecord` permission.

Request Syntax

```
GET /memories/memoryId/memoryRecord/memoryRecordId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The identifier of the AgentCore Memory resource containing the memory record.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

memoryRecordId

The identifier of the memory record to retrieve.

Length Constraints: Minimum length of 40. Maximum length of 50.

Pattern: `mem-[a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "memoryRecord": {
    "content": { ... },
    "createdAt": number,
    "memoryRecordId": "string",
    "memoryStrategyId": "string",
    "metadata": {
      "string" : { ... }
    },
    "namespaces": [ "string" ]
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

memoryRecord

The requested memory record.

Type: [MemoryRecord](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetResourceApiKey

Retrieves the API key associated with an API key credential provider.

Request Syntax

```
POST /identities/api-key HTTP/1.1
Content-type: application/json

{
  "resourceCredentialProviderName": "string",
  "workloadIdentityToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[resourceCredentialProviderName](#)

The credential provider name for the resource from which you are retrieving the API key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-_]+

Required: Yes

[workloadIdentityToken](#)

The identity token of the workload from which you want to retrieve the API key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "apiKey": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

apiKey

The API key associated with the resource requested.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetResourceOauth2Token

Returns the OAuth 2.0 token of the provided resource.

Request Syntax

```
POST /identities/oauth2/token HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "customParameters": {
    "string" : "string"
  },
  "customState": "string",
  "forceAuthentication": boolean,
  "oauth2Flow": "string",
  "resourceCredentialProviderName": "string",
  "resourceOauth2ReturnUrl": "string",
  "scopes": [ "string" ],
  "sessionUri": "string",
  "workloadIdentityToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

customParameters

A map of custom parameters to include in the authorization request to the resource credential provider. These parameters are in addition to the standard OAuth 2.0 flow parameters, and will not override them.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z0-9\-_\.\.]+

Value Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

customState

An opaque string that will be sent back to the callback URL provided in `resourceOauth2ReturnUrl`. This state should be used to protect the callback URL of your application against CSRF attacks by ensuring the response corresponds to the original request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Required: No

forceAuthentication

Indicates whether to always initiate a new three-legged OAuth (3LO) flow, regardless of any existing session.

Type: Boolean

Required: No

oauth2Flow

The type of flow to be performed.

Type: String

Valid Values: USER_FEDERATION | M2M

Required: Yes

resourceCredentialProviderName

The name of the resource's credential provider.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9\-_]+`

Required: Yes

resourceOauth2ReturnUrl

The callback URL to redirect to after the OAuth 2.0 token retrieval is complete. This URL must be one of the provided URLs configured for the workload identity.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `\w+:(\/?\/?)[^\s]+`

Required: No

scopes

The OAuth scopes being requested.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

sessionUri

Unique identifier for the user's authentication session for retrieving OAuth2 tokens. This ID tracks the authorization flow state across multiple requests and responses during the OAuth2 authentication process.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `urn:iETF:params:oauth:request_uri:[a-zA-Z0-9-._~]+`

Required: No

workloadIdentityToken

The identity token of the workload from which you want to retrieve the OAuth2 token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "accessToken": "string",
  "authorizationUrl": "string",
  "sessionStatus": "string",
  "sessionUri": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

accessToken

The OAuth 2.0 access token to use.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

authorizationUrl

The URL to initiate the authorization process, provided when the access token requires user authorization.

Type: String

Length Constraints: Minimum length of 1.

sessionStatus

Status indicating whether the user's authorization session is in progress or has failed. This helps determine the next steps in the OAuth2 authentication flow.

Type: String

Valid Values: IN_PROGRESS | FAILED

sessionUri

Unique identifier for the user's authorization session for retrieving OAuth2 tokens. This matches the sessionId from the request and can be used to track the session state.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `urn:ietf:params:oauth:request_uri:[a-zA-Z0-9-._~]+`

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWorkloadAccessToken

Obtains a workload access token for agentic workloads not acting on behalf of a user.

Request Syntax

```
POST /identities/GetWorkloadAccessToken HTTP/1.1
Content-type: application/json

{
  "workloadName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[workloadName](#)

The unique identifier for the registered workload.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: [A-Za-z0-9_.-]+

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "workloadAccessToken": "string"
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

workloadAccessToken

An opaque token representing the identity of both the workload and the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWorkloadAccessTokenForJWT

Obtains a workload access token for agentic workloads acting on behalf of a user, using a JWT token.

Request Syntax

```
POST /identities/GetWorkloadAccessTokenForJWT HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "userToken": "string",
  "workloadName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

userToken

The OAuth 2.0 token issued by the user's identity provider.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Pattern: `[A-Za-z0-9-_=]+.[A-Za-z0-9-_=]+.[A-Za-z0-9-_=]+`

Required: Yes

workloadName

The unique identifier for the registered workload.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: [A-Za-z0-9_.-]+

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "workloadAccessToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

workloadAccessToken

An opaque token representing the identity of both the workload and the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWorkloadAccessTokenForUserId

Obtains a workload access token for agentic workloads acting on behalf of a user, using the user's ID.

Request Syntax

```
POST /identities/GetWorkloadAccessTokenForUserId HTTP/1.1
Content-type: application/json
```

```
{
  "userId": "string",
  "workloadName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

userId

The ID of the user for whom you are retrieving the access token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

workloadName

The name of the workload from which you want to retrieve the access token.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: [A-Za-z0-9_.-]+

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "workloadAccessToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[workloadAccessToken](#)

The access token for the specified workload.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

InvokeAgentRuntime

Sends a request to an agent or tool hosted in an Amazon Bedrock AgentCore Runtime and receives responses in real-time.

To invoke an agent, you can specify either the AgentCore Runtime ARN or the agent ID with an account ID, and provide a payload containing your request. When you use the agent ID instead of the full ARN, you don't need to URL-encode the identifier. You can optionally specify a qualifier to target a specific endpoint of the agent.

This operation supports streaming responses, allowing you to receive partial responses as they become available. We recommend using pagination to ensure that the operation returns quickly and successfully when processing large responses.

For example code, see [Invoke an AgentCore Runtime agent](#).

If you're integrating your agent with OAuth, you can't use the AWS SDK to call `InvokeAgentRuntime`. Instead, make a HTTPS request to `InvokeAgentRuntime`. For an example, see [Authenticate and authorize with Inbound Auth and Outbound Auth](#).

To use this operation, you must have the `bedrock-agentcore:InvokeAgentRuntime` permission. If you are making a call to `InvokeAgentRuntime` on behalf of a user ID with the `X-Amzn-Bedrock-AgentCore-Runtime-User-Id` header, You require permissions to both actions (`bedrock-agentcore:InvokeAgentRuntime` and `bedrock-agentcore:InvokeAgentRuntimeForUser`).

Request Syntax

```
POST /runtimes/agentRuntimeArn/invocations?accountId=accountId&qualifier=qualifier
HTTP/1.1
Content-Type: contentType
Accept: accept
Mcp-Session-Id: mcpSessionId
X-Amzn-Bedrock-AgentCore-Runtime-Session-Id: runtimeSessionId
Mcp-Protocol-Version: mcpProtocolVersion
X-Amzn-Bedrock-AgentCore-Runtime-User-Id: runtimeUserId
X-Amzn-Trace-Id: traceId
traceparent: traceParent
tracestate: traceState
baggage: baggage
```

payload

URI Request Parameters

The request uses the following URI parameters.

accept

The desired MIME type for the response from the agent runtime. This tells the agent runtime what format to use for the response data. Common values include `application/json` for JSON data.

Length Constraints: Minimum length of 1. Maximum length of 256.

accountId

The identifier of the AWS account for the agent runtime resource. This parameter is required when you specify an agent ID instead of the full ARN for `agentRuntimeArn`.

Pattern: `[0-9]{12}`

agentRuntimeArn

The identifier of the agent runtime to invoke. You can specify either the full AWS Resource Name (ARN) or the agent ID. If you use the agent ID, you must also provide the `accountId` query parameter.

Required: Yes

baggage

Additional context information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 8192.

contentType

The MIME type of the input data in the payload. This tells the agent runtime how to interpret the payload data. Common values include `application/json` for JSON data.

Length Constraints: Minimum length of 1. Maximum length of 256.

mcpProtocolVersion

The version of the MCP protocol being used.

Length Constraints: Minimum length of 1. Maximum length of 1024.

mcpSessionId

The identifier of the MCP session.

Length Constraints: Minimum length of 1. Maximum length of 1024.

qualifier

The qualifier to use for the agent runtime. This is an endpoint name that points to a specific version. If not specified, Amazon Bedrock AgentCore uses the default endpoint of the agent runtime.

runtimeSessionId

The identifier of the runtime session.

Length Constraints: Minimum length of 33. Maximum length of 256.

runtimeUserId

The identifier of the runtime user.

Length Constraints: Minimum length of 1. Maximum length of 1024.

traceId

The trace identifier for request tracking.

Length Constraints: Minimum length of 0. Maximum length of 128.

traceParent

The parent trace information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 128.

traceState

The trace state information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 512.

Request Body

The request accepts the following binary data.

payload

The input data to send to the agent runtime. The format of this data depends on the specific agent configuration and must match the specified content type. For most agents, this is a JSON object containing the user's request.

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: Yes

Response Syntax

```
HTTP/1.1 statusCode
X-Amzn-Bedrock-AgentCore-Runtime-Session-Id: runtimeSessionId
Mcp-Session-Id: mcpSessionId
Mcp-Protocol-Version: mcpProtocolVersion
X-Amzn-Trace-Id: traceId
traceparent: traceParent
tracestate: traceState
baggage: baggage
Content-Type: contentType

response
```

Response Elements

If the action is successful, the service sends back the following HTTP response.

statusCode

The HTTP status code of the response. A status code of 200 indicates a successful operation. Other status codes indicate various error conditions.

The response returns the following HTTP headers.

baggage

Additional context information for distributed tracing.

contentType

The MIME type of the response data. This indicates how to interpret the response data. Common values include application/json for JSON data.

mcpProtocolVersion

The version of the MCP protocol being used.

mcpSessionId

The identifier of the MCP session.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_]*`

runtimeSessionId

The identifier of the runtime session.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_]*`

traceId

The trace identifier for request tracking.

traceParent

The parent trace information for distributed tracing.

traceState

The trace state information for distributed tracing.

The response returns the following as the HTTP body.

response

The response data from the agent runtime. The format of this data depends on the specific agent configuration and the requested accept type. For most agents, this is a JSON object containing the agent's response to the user's request.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

RuntimeClientError

The exception that occurs when there is an error in the runtime client. This can happen due to network issues, invalid configuration, or other client-side problems. Check the error message for specific details about the error.

HTTP Status Code: 424

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

InvokeAgentRuntimeCommand

Executes a command in a runtime session container and streams the output back to the caller. This operation allows you to run shell commands within the agent runtime environment and receive real-time streaming responses including standard output and standard error.

To invoke a command, you must specify the agent runtime ARN and a runtime session ID. The command execution supports streaming responses, allowing you to receive output as it becomes available through `contentStart`, `contentDelta`, and `contentStop` events.

To use this operation, you must have the `bedrock-agentcore:InvokeAgentRuntimeCommand` permission.

Request Syntax

```
POST /runtimes/agentRuntimeArn/commands?accountId=accountId&qualifier=qualifier
HTTP/1.1
Content-Type: contentType
Accept: accept
X-Amzn-Bedrock-AgentCore-Runtime-Session-Id: runtimeSessionId
X-Amzn-Trace-Id: traceId
traceparent: traceParent
tracestate: traceState
baggage: baggage
Content-type: application/json

{
  "command": "string",
  "timeout": number
}
```

URI Request Parameters

The request uses the following URI parameters.

accept

The desired MIME type for the response from the agent runtime command. This tells the agent runtime what format to use for the response data. Common values include `application/json` for JSON data.

Length Constraints: Minimum length of 1. Maximum length of 256.

accountId

The identifier of the AWS account for the agent runtime resource. This parameter is required when you specify an agent ID instead of the full ARN for `agentRuntimeArn`.

Pattern: `[0-9]{12}`

agentRuntimeArn

The Amazon Resource Name (ARN) of the agent runtime on which to execute the command. This identifies the specific agent runtime environment where the command will run.

Required: Yes

baggage

Additional context information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 8192.

contentType

The MIME type of the input data in the request payload. This tells the agent runtime how to interpret the payload data. Common values include `application/json` for JSON data.

Length Constraints: Minimum length of 1. Maximum length of 256.

qualifier

The qualifier to use for the agent runtime. This is an endpoint name that points to a specific version. If not specified, Amazon Bedrock AgentCore uses the default endpoint of the agent runtime.

runtimeSessionId

The unique identifier of the runtime session in which to execute the command. This session ID is used to maintain state and context across multiple command invocations.

Length Constraints: Minimum length of 33. Maximum length of 256.

traceId

The trace identifier for request tracking.

Length Constraints: Minimum length of 0. Maximum length of 1024.

traceParent

The parent trace information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 1024.

traceState

The trace state information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 512.

Request Body

The request accepts the following data in JSON format.

command

The shell command to execute on the agent runtime. This command is executed in the runtime environment and its output is streamed back to the caller.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Required: Yes

timeout

The maximum duration in seconds to wait for the command to complete. If the command execution exceeds this timeout, it will be terminated. Default is 300 seconds. Minimum is 1 second. Maximum is 3600 seconds.

Type: Integer

Required: No

Response Syntax

```
HTTP/1.1 statusCode  
X-Amzn-Bedrock-AgentCore-Runtime-Session-Id: runtimeSessionId  
X-Amzn-Trace-Id: traceId
```

```
traceparent: traceParent
tracestate: traceState
baggage: baggage
Content-Type: contentType
Content-type: application/json

{
  "accessDeniedException": {
  },
  "chunk": {
    "contentDelta": {
      "stderr": "string",
      "stdout": "string"
    },
    "contentStart": {
    },
    "contentStop": {
      "exitCode": number,
      "status": "string"
    }
  },
  "internalServerError": {
  },
  "resourceNotFoundException": {
  },
  "runtimeClientError": {
  },
  "serviceQuotaExceededException": {
  },
  "throttlingException": {
  },
  "validationException": {
  }
}
```

Response Elements

If the action is successful, the service sends back the following HTTP response.

[statusCode](#)

The HTTP status code of the response. A status code of 200 indicates a successful operation. Other status codes indicate various error conditions.

The response returns the following HTTP headers.

baggage

Additional context information for distributed tracing.

contentType

The MIME type of the response data. This indicates how to interpret the response data. Common values include application/json for JSON data.

runtimeSessionId

The unique identifier of the runtime session in which the command was executed.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9][a-zA-Z0-9-_*]

traceId

The trace identifier for request tracking.

traceParent

The parent trace information for distributed tracing.

traceState

The trace state information for distributed tracing.

The following data is returned in JSON format by the service.

accessDeniedException

Exception events for error streaming.

Type: Exception

HTTP Status Code: 403

chunk

A response chunk containing command execution events such as content start, content delta, or content stop events.

Type: [ResponseChunk](#) object

internalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

Type: Exception

HTTP Status Code: 500

resourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

Type: Exception

HTTP Status Code: 404

runtimeClientError

The exception that occurs when there is an error in the runtime client. This can happen due to network issues, invalid configuration, or other client-side problems. Check the error message for specific details about the error.

Type: Exception

HTTP Status Code: 424

serviceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

Type: Exception

HTTP Status Code: 402

throttlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

Type: Exception

HTTP Status Code: 429

validationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

Type: Exception

HTTP Status Code: 400

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

RuntimeClientError

The exception that occurs when there is an error in the runtime client. This can happen due to network issues, invalid configuration, or other client-side problems. Check the error message for specific details about the error.

HTTP Status Code: 424

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

InvokeBrowser

Invokes an operating system-level action on a browser session in Amazon Bedrock AgentCore. This operation provides direct OS-level control over browser sessions, enabling mouse actions, keyboard input, and screenshots that the WebSocket-based Chrome DevTools Protocol (CDP) cannot handle — such as interacting with print dialogs, context menus, and JavaScript alerts.

You send a request with exactly one action in the `BrowserAction` union, and receive a corresponding result in the `BrowserActionResult` union.

The following operations are related to `InvokeBrowser`:

- [StartBrowserSession](#)
- [GetBrowserSession](#)
- [StopBrowserSession](#)

Request Syntax

```
POST /browsers/browserIdentifier/sessions/invoke HTTP/1.1
x-amzn-browser-session-id: sessionId
Content-type: application/json

{
  "action": { ... }
}
```

URI Request Parameters

The request uses the following URI parameters.

[browserIdentifier](#)

The unique identifier of the browser associated with the session. This must match the identifier used when creating the session with `StartBrowserSession`.

Required: Yes

[sessionId](#)

The unique identifier of the browser session on which to perform the action. This must be an active session created with `StartBrowserSession`.

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

action

The browser action to perform. Exactly one member of the `BrowserAction` union must be set per request.

Type: [BrowserAction](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
HTTP/1.1 200
x-amzn-browser-session-id: sessionId
Content-type: application/json

{
  "result": { ... }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following HTTP headers.

sessionId

The unique identifier of the browser session on which the action was performed.

Pattern: `[0-9a-zA-Z]{1,40}`

The following data is returned in JSON format by the service.

result

The result of the browser action. The member set in the result corresponds to the action that was performed.

Type: [BrowserActionResult](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

InvokeCodeInterpreter

Executes code within an active code interpreter session in Amazon Bedrock AgentCore. This operation processes the provided code, runs it in a secure environment, and returns the execution results including output, errors, and generated visualizations.

To execute code, you must specify the code interpreter identifier, session ID, and the code to run in the arguments parameter. The operation returns a stream containing the execution results, which can include text output, error messages, and data visualizations.

This operation is subject to request rate limiting based on your account's service quotas.

The following operations are related to InvokeCodeInterpreter:

- [StartCodeInterpreterSession](#)
- [GetCodeInterpreterSession](#)

Request Syntax

```
POST /code-interpreters/codeInterpreterIdentifier/tools/invoke HTTP/1.1
x-amzn-code-interpreter-session-id: sessionId
X-Amzn-Trace-Id: traceId
traceparent: traceParent
Content-type: application/json
```

```
{
  "arguments": {
    "clearContext": boolean,
    "code": "string",
    "command": "string",
    "content": [
      {
        "blob": blob,
        "path": "string",
        "text": "string"
      }
    ],
    "directoryPath": "string",
    "language": "string",
    "path": "string",
```

```
  "paths": [ "string" ],
  "runtime": "string",
  "taskId": "string"
},
"name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

codeInterpreterIdentifier

The unique identifier of the code interpreter associated with the session. This must match the identifier used when creating the session with `StartCodeInterpreterSession`.

Required: Yes

sessionId

The unique identifier of the code interpreter session to use. This must be an active session created with `StartCodeInterpreterSession`. If the session has expired or been stopped, the request will fail.

Pattern: `[0-9a-zA-Z]{1,40}`

traceId

The trace identifier for request tracking.

Length Constraints: Minimum length of 0. Maximum length of 1024.

traceParent

The parent trace information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 1024.

Request Body

The request accepts the following data in JSON format.

arguments

The arguments for the code interpreter. This includes the code to execute and any additional parameters such as the programming language, whether to clear the execution context, and other execution options. The structure of this parameter depends on the specific code interpreter being used.

Type: [ToolArguments](#) object

Required: No

name

The name of the code interpreter to invoke.

Type: String

Valid Values: `executeCode` | `executeCommand` | `readFiles` | `listFiles` | `removeFiles` | `writeFiles` | `startCommandExecution` | `getTask` | `stopTask`

Required: Yes

Response Syntax

```
HTTP/1.1 200
x-amzn-code-interpreter-session-id: sessionId
Content-type: application/json
```

```
{
  "accessDeniedException": {
  },
  "conflictException": {
  },
  "internalServerErrorException": {
  },
  "resourceNotFoundException": {
  },
  "result": {
    "content": [
      {
        "data": blob,
        "description": "string",
        "mimeType": "string",
```

```
    "name": "string",
    "resource": {
      "blob": blob,
      "mimeType": "string",
      "text": "string",
      "type": "string",
      "uri": "string"
    },
    "size": number,
    "text": "string",
    "type": "string",
    "uri": "string"
  }
],
"isError": boolean,
"structuredContent": {
  "executionTime": number,
  "exitCode": number,
  "stderr": "string",
  "stdout": "string",
  "taskId": "string",
  "taskStatus": "string"
}
},
"serviceQuotaExceededException": {
},
"throttlingException": {
},
"validationException": {
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following HTTP headers.

sessionId

The identifier of the code interpreter session.

Pattern: `[0-9a-zA-Z]{1,40}`

The following data is returned in JSON format by the service.

[accessDeniedException](#)

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

Type: Exception

HTTP Status Code: 403

[conflictException](#)

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

Type: Exception

HTTP Status Code: 409

[internalServerErrorException](#)

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

Type: Exception

HTTP Status Code: 500

[resourceNotFoundException](#)

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

Type: Exception

HTTP Status Code: 404

[result](#)

The output produced by executing code in a code interpreter session in Amazon Bedrock AgentCore. This structure contains the results of code execution, including textual output,

structured data, and error information. Agents use these results to generate responses that incorporate computation, data analysis, and visualization.

Type: [CodeInterpreterResult](#) object

[serviceQuotaExceededException](#)

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

Type: Exception

HTTP Status Code: 402

[throttlingException](#)

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

Type: Exception

HTTP Status Code: 429

[validationException](#)

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

Type: Exception

HTTP Status Code: 400

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListActors

Lists all actors in an AgentCore Memory resource. We recommend using pagination to ensure that the operation returns quickly and successfully.

To use this operation, you must have the `bedrock-agentcore:ListActors` permission.

Request Syntax

```
POST /memories/memoryId/actors HTTP/1.1
Content-type: application/json

{
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The identifier of the AgentCore Memory resource for which to list actors.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}]-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return in a single call. The default value is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[nextToken](#)

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "actorSummaries": [
    {
      "actorId": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[actorSummaries](#)

The list of actor summaries.

Type: Array of [ActorSummary](#) objects

[nextToken](#)

The token to use in a subsequent request to get the next set of results. This value is null when there are no more results to return.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListBrowserSessions

Retrieves a list of browser sessions in Amazon Bedrock AgentCore that match the specified criteria. This operation returns summary information about each session, including identifiers, status, and timestamps.

You can filter the results by browser identifier and session status. The operation supports pagination to handle large result sets efficiently.

We recommend using pagination to ensure that the operation returns quickly and successfully when retrieving large numbers of sessions.

The following operations are related to `ListBrowserSessions`:

- [StartBrowserSession](#)
- [GetBrowserSession](#)

Request Syntax

```
POST /browsers/browserIdentifier/sessions/list HTTP/1.1
Content-type: application/json
```

```
{
  "maxResults": number,
  "nextToken": "string",
  "status": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[browserIdentifier](#)

The unique identifier of the browser to list sessions for. If specified, only sessions for this browser are returned. If not specified, sessions for all browsers are returned.

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return in a single call. The default value is 10. Valid values range from 1 to 100. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results. If not specified, Amazon Bedrock AgentCore returns the first page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `\S*`

Required: No

status

The status of the browser sessions to list. Valid values include `ACTIVE`, `STOPPING`, and `STOPPED`. If not specified, sessions with any status are returned.

Type: String

Valid Values: `READY` | `TERMINATED`

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "items": [
    {
      "browserIdentifier": "string",
      "createdAt": "string",
      "lastUpdatedAt": "string",
      "name": "string",
      "sessionId": "string",
      "status": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

items

The list of browser sessions that match the specified criteria.

Type: Array of [BrowserSessionSummary](#) objects

nextToken

The token to use in a subsequent `ListBrowserSessions` request to get the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `\S*`

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListCodeInterpreterSessions

Retrieves a list of code interpreter sessions in Amazon Bedrock AgentCore that match the specified criteria. This operation returns summary information about each session, including identifiers, status, and timestamps.

You can filter the results by code interpreter identifier and session status. The operation supports pagination to handle large result sets efficiently.

We recommend using pagination to ensure that the operation returns quickly and successfully when retrieving large numbers of sessions.

The following operations are related to ListCodeInterpreterSessions:

- [StartCodeInterpreterSession](#)
- [GetCodeInterpreterSession](#)

Request Syntax

```
POST /code-interpreters/codeInterpreterIdentifier/sessions/list HTTP/1.1
Content-type: application/json
```

```
{
  "maxResults": number,
  "nextToken": "string",
  "status": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[codeInterpreterIdentifier](#)

The unique identifier of the code interpreter to list sessions for. If specified, only sessions for this code interpreter are returned. If not specified, sessions for all code interpreters are returned.

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return in a single call. The default value is 10. Valid values range from 1 to 100. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results. If not specified, Amazon Bedrock AgentCore returns the first page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `\S*`

Required: No

status

The status of the code interpreter sessions to list. Valid values include `ACTIVE`, `STOPPING`, and `STOPPED`. If not specified, sessions with any status are returned.

Type: String

Valid Values: `READY` | `TERMINATED`

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "items": [
    {
      "codeInterpreterIdentifier": "string",
      "createdAt": "string",
      "lastUpdatedAt": "string",
      "name": "string",
      "sessionId": "string",
      "status": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

items

The list of code interpreter sessions that match the specified criteria.

Type: Array of [CodeInterpreterSessionSummary](#) objects

nextToken

The token to use in a subsequent `ListCodeInterpreterSessions` request to get the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `\S*`

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListEvents

Lists events in an AgentCore Memory resource based on specified criteria. We recommend using pagination to ensure that the operation returns quickly and successfully.

To use this operation, you must have the `bedrock-agentcore:ListEvents` permission.

Request Syntax

```
POST /memories/memoryId/actor/actorId/sessions/sessionId HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "filter": {
    "branch": {
      "includeParentBranches": boolean,
      "name": "string"
    },
    "eventMetadata": [
      {
        "left": { ... },
        "operator": "string",
        "right": { ... }
      }
    ]
  },
  "includePayloads": boolean,
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

actorId

The identifier of the actor for which to list events.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*(?::[a-zA-Z0-9-_/]+)*[a-zA-Z0-9-_/]*`

Required: Yes

memoryId

The identifier of the AgentCore Memory resource for which to list events.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

sessionId

The identifier of the session for which to list events.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

filter

Filter criteria to apply when listing events.

Type: [FilterInput](#) object

Required: No

includePayloads

Specifies whether to include event payloads in the response. Set to true to include payloads, or false to exclude them.

Type: Boolean

Required: No

maxResults

The maximum number of results to return in a single call. The default value is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "events": [
    {
      "actorId": "string",
      "branch": {
        "name": "string",
        "rootEventId": "string"
      },
      "eventId": "string",
      "eventTimestamp": number,
      "memoryId": "string",
      "metadata": {
        "string" : { ... }
      },
      "payload": [
        { ... }
      ],
      "sessionId": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

events

The list of events that match the specified criteria.

Type: Array of [Event](#) objects

nextToken

The token to use in a subsequent request to get the next set of results. This value is null when there are no more results to return.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListMemoryExtractionJobs

Lists all long-term memory extraction jobs that are eligible to be started with optional filtering.

To use this operation, you must have the `bedrock-agentcore:ListMemoryExtractionJobs` permission.

Request Syntax

```
POST /memories/memoryId/extractionJobs HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "filter": {
    "actorId": "string",
    "sessionId": "string",
    "status": "string",
    "strategyId": "string"
  },
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The unique identifier of the memory to list extraction jobs for.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

filter

Filter criteria to apply when listing extraction jobs.

Type: [ExtractionJobFilterInput](#) object

Required: No

maxResults

The maximum number of results to return in a single call. The default value is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "jobs": [
    {
      "actorId": "string",
      "failureReason": "string",
      "jobID": "string",
      "messages": { ... },
      "sessionId": "string",
      "status": "string",
      "strategyId": "string"
    }
  ],
}
```

```
"nextToken": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[jobs](#)

List of extraction job metadata matching the specified criteria.

Type: Array of [ExtractionJobMetadata](#) objects

[nextToken](#)

Token to retrieve the next page of results, if available.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListMemoryRecords

Lists memory records in an AgentCore Memory resource based on specified criteria. We recommend using pagination to ensure that the operation returns quickly and successfully.

To use this operation, you must have the `bedrock-agentcore:ListMemoryRecords` permission.

Request Syntax

```
POST /memories/memoryId/memoryRecords HTTP/1.1
Content-type: application/json
```

```
{
  "maxResults": number,
  "memoryStrategyId": "string",
  "namespace": "string",
  "namespacePath": "string",
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The identifier of the AgentCore Memory resource for which to list memory records.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return in a single call. The default value is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

memoryStrategyId

The memory strategy identifier to filter memory records by. If specified, only memory records with this strategy ID are returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9][a-zA-Z0-9-_*]

Required: No

namespace

The namespace prefix to filter memory records by. Returns all memory records in namespaces that start with the provided prefix.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: [a-zA-Z0-9/*][a-zA-Z0-9-/*]*(?::[a-zA-Z0-9-/*]+)*[a-zA-Z0-9-/*]*

Required: No

namespacePath

Use namespacePath for hierarchical retrievals. Return all memory records where namespace falls under the same parent hierarchy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: [a-zA-Z0-9/*][a-zA-Z0-9-/*]*(?::[a-zA-Z0-9-/*]+)*[a-zA-Z0-9-/*]*

Required: No

[nextToken](#)

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "memoryRecordSummaries": [
    {
      "content": { ... },
      "createdAt": number,
      "memoryRecordId": "string",
      "memoryStrategyId": "string",
      "metadata": {
        "string" : { ... }
      },
      "namespaces": [ "string" ],
      "score": number
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[memoryRecordSummaries](#)

The list of memory record summaries that match the specified criteria.

Type: Array of [MemoryRecordSummary](#) objects

[nextToken](#)

The token to use in a subsequent request to get the next set of results. This value is null when there are no more results to return.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListSessions

Lists sessions in an AgentCore Memory resource based on specified criteria. We recommend using pagination to ensure that the operation returns quickly and successfully.

Empty sessions are automatically deleted after one day.

To use this operation, you must have the `bedrock-agentcore:ListSessions` permission.

Request Syntax

```
POST /memories/memoryId/actor/actorId/sessions HTTP/1.1
Content-type: application/json
```

```
{
  "filter": {
    "eventFilter": "string"
  },
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

actorId

The identifier of the actor for which to list sessions.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*(?::[a-zA-Z0-9-_/]+)*[a-zA-Z0-9-_/]*`

Required: Yes

memoryId

The identifier of the AgentCore Memory resource for which to list sessions.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_]{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

filter

Filter criteria to apply when listing sessions.

Type: [SessionFilter](#) object

Required: No

maxResults

The maximum number of results to return in a single call. The default value is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "sessionSummaries": [
    {
```

```
    "actorId": "string",  
    "createdAt": number,  
    "sessionId": "string"  
  }  
]  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token to use in a subsequent request to get the next set of results. This value is null when there are no more results to return.

Type: String

sessionSummaries

The list of session summaries that match the specified criteria.

Type: Array of [SessionSummary](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

RetrieveMemoryRecords

Searches for and retrieves memory records from an AgentCore Memory resource based on specified search criteria. We recommend using pagination to ensure that the operation returns quickly and successfully.

To use this operation, you must have the `bedrock-agentcore:RetrieveMemoryRecords` permission.

Request Syntax

```
POST /memories/memoryId/retrieve HTTP/1.1
Content-type: application/json
```

```
{
  "maxResults": number,
  "namespace": "string",
  "namespacePath": "string",
  "nextToken": "string",
  "searchCriteria": {
    "memoryStrategyId": "string",
    "metadataFilters": [
      {
        "left": { ... },
        "operator": "string",
        "right": { ... }
      }
    ],
    "searchQuery": "string",
    "topK": number
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The identifier of the AgentCore Memory resource from which to retrieve memory records.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return in a single call. The default value is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

namespace

The namespace prefix to filter memory records by. Searches for memory records in namespaces that start with the provided prefix.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[a-zA-Z0-9/*][a-zA-Z0-9-/*]*(?::[a-zA-Z0-9-/*]+)*[a-zA-Z0-9-/*]*`

Required: No

namespacePath

Use namespacePath for hierarchical retrievals. Return all memory records where namespace falls under the same parent hierarchy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[a-zA-Z0-9/*][a-zA-Z0-9-/*]*(?::[a-zA-Z0-9-/*]+)*[a-zA-Z0-9-/*]*`

Required: No

[nextToken](#)

The token for the next set of results. Use the value returned in the previous response in the next request to retrieve the next set of results.

Type: String

Required: No

[searchCriteria](#)

The search criteria to use for finding relevant memory records. This includes the search query, memory strategy ID, and other search parameters.

Type: [SearchCriteria](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "memoryRecordSummaries": [
    {
      "content": { ... },
      "createdAt": number,
      "memoryRecordId": "string",
      "memoryStrategyId": "string",
      "metadata": {
        "string" : { ... }
      },
      "namespaces": [ "string" ],
      "score": number
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[memoryRecordSummaries](#)

The list of memory record summaries that match the search criteria, ordered by relevance.

Type: Array of [MemoryRecordSummary](#) objects

[nextToken](#)

The token to use in a subsequent request to get the next set of results. This value is null when there are no more results to return.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InvalidInputException

The input fails to satisfy the constraints specified by AgentCore. Check your input values and try again.

HTTP Status Code: 400

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

SaveBrowserSessionProfile

Saves the current state of a browser session as a reusable profile in Amazon Bedrock AgentCore. A browser profile captures persistent browser data such as cookies and local storage from an active session, enabling you to reuse this data in future browser sessions.

To save a browser session profile, you must specify the profile identifier, browser identifier, and session ID. The session must be active when saving the profile. Once saved, the profile can be used with the `StartBrowserSession` operation to initialize new sessions with the stored browser state.

Browser profiles are useful for scenarios that require persistent authentication, maintaining user preferences across sessions, or continuing tasks that depend on previously stored browser data.

The following operations are related to `SaveBrowserSessionProfile`:

- [StartBrowserSession](#)
- [GetBrowserSession](#)

Request Syntax

```
PUT /browser-profiles/profileIdentifier/save HTTP/1.1
X-Amzn-Trace-Id: traceId
traceparent: traceParent
Content-type: application/json

{
  "browserIdentifier": "string",
  "clientToken": "string",
  "sessionId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

profileIdentifier

The unique identifier for the browser profile. This identifier is used to reference the profile when starting new browser sessions. The identifier must follow the pattern of an alphanumeric name (up to 48 characters) followed by a hyphen and a 10-character alphanumeric suffix.

Pattern: `[a-zA-Z][a-zA-Z0-9_]{0,47}-[a-zA-Z0-9]{10}`

Required: Yes

traceId

The trace identifier for request tracking.

Length Constraints: Minimum length of 0. Maximum length of 1024.

traceParent

The parent trace information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 1024.

Request Body

The request accepts the following data in JSON format.

browserIdentifier

The unique identifier of the browser associated with the session from which to save the profile.

Type: String

Required: Yes

clientToken

A unique, case-sensitive identifier to ensure that the API request completes no more than one time. If this token matches a previous request, Amazon Bedrock AgentCore ignores the request, but does not return an error.

Type: String

Length Constraints: Minimum length of 33. Maximum length of 256.

Pattern: `[a-zA-Z0-9](-*[a-zA-Z0-9]){0,256}`

Required: No

sessionId

The unique identifier of the browser session from which to save the profile. The session must be active when saving the profile.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "browserIdentifier": "string",
  "lastUpdatedAt": "string",
  "profileIdentifier": "string",
  "sessionId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

browserIdentifier

The unique identifier of the browser associated with the session from which the profile was saved.

Type: String

lastUpdatedAt

The timestamp when the browser profile was last updated. This value is in ISO 8601 format.

Type: Timestamp

profileIdentifier

The unique identifier of the saved browser profile.

Type: String

Pattern: `[a-zA-Z][a-zA-Z0-9_]{0,47}-[a-zA-Z0-9]{10}`

sessionId

The unique identifier of the browser session from which the profile was saved.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

SearchRegistryRecords

Searches for registry records using semantic, lexical, or hybrid queries. Returns metadata for matching records ordered by relevance within the specified registry.

Request Syntax

```
POST /registry-records/search HTTP/1.1
Content-type: application/json
```

```
{
  "filters": JSON value,
  "maxResults": number,
  "registryIds": [ "string" ],
  "searchQuery": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

A metadata filter expression to narrow search results. Uses structured JSON operators including field-level operators (`$eq`, `$ne`, `$in`) and logical operators (`$and`, `$or`) on filterable fields (`name`, `descriptorType`, `version`). For example, to filter by descriptor type: `{"descriptorType": {"$eq": "MCP"}}`. To combine filters: `{"$and": [{"descriptorType": {"$eq": "MCP"}}, {"name": {"$eq": "my-tool"}}]}`.

Type: JSON value

Required: No

maxResults

The maximum number of records to return in a single call. Valid values are 1 through 20. The default value is 10.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

registryIds

The list of registry identifiers to search within. Currently, you can specify exactly one registry identifier. You can provide either the full AWS Resource Name (ARN) or the 12-character alphanumeric registry ID.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `(arn:aws(-[^\:]+)?):bedrock-agentcore:[a-z0-9-]+:[0-9]{12}:registry/)?[a-zA-Z0-9]{12,16}`

Required: Yes

searchQuery

The search query to find matching registry records.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "registryRecords": [
    {
      "createdAt": "string",
      "description": "string",
      "descriptors": {
        "a2a": {
```

```
    "agentCard": {
      "inlineContent": "string",
      "schemaVersion": "string"
    },
    "agentSkills": {
      "skillDefinition": {
        "inlineContent": "string",
        "schemaVersion": "string"
      },
      "skillMd": {
        "inlineContent": "string"
      }
    },
    "custom": {
      "inlineContent": "string"
    },
    "mcp": {
      "server": {
        "inlineContent": "string",
        "schemaVersion": "string"
      },
      "tools": {
        "inlineContent": "string",
        "protocolVersion": "string"
      }
    }
  },
  "descriptorType": "string",
  "name": "string",
  "recordArn": "string",
  "recordId": "string",
  "registryArn": "string",
  "status": "string",
  "updatedAt": "string",
  "version": "string"
}
]
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

registryRecords

The list of registry records that match the search query, ordered by relevance.

Type: Array of [RegistryRecordSummary](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartBrowserSession

Creates and initializes a browser session in Amazon Bedrock AgentCore. The session enables agents to navigate and interact with web content, extract information from websites, and perform web-based tasks as part of their response generation.

To create a session, you must specify a browser identifier and a name. You can also configure the viewport dimensions to control the visible area of web content. The session remains active until it times out or you explicitly stop it using the `StopBrowserSession` operation.

The following operations are related to `StartBrowserSession`:

- [GetBrowserSession](#)
- [UpdateBrowserStream](#)
- [SaveBrowserSessionProfile](#)
- [StopBrowserSession](#)
- [InvokeBrowser](#)

Request Syntax

```
PUT /browsers/browserIdentifier/sessions/start HTTP/1.1
X-Amzn-Trace-Id: traceId
traceparent: traceParent
Content-type: application/json
```

```
{
  "certificates": [
    {
      "location": { ... }
    }
  ],
  "clientToken": "string",
  "enterprisePolicies": [
    {
      "location": { ... },
      "type": "string"
    }
  ],
  "extensions": [
```

```
{
  "location": { ... }
},
"name": "string",
"profileConfiguration": {
  "profileIdentifier": "string"
},
"proxyConfiguration": {
  "bypass": {
    "domainPatterns": [ "string" ]
  },
  "proxies": [
    { ... }
  ]
},
"sessionTimeoutSeconds": number,
"viewPort": {
  "height": number,
  "width": number
}
}
```

URI Request Parameters

The request uses the following URI parameters.

browserIdentifier

The unique identifier of the browser to use for this session. This identifier specifies which browser environment to initialize for the session.

Required: Yes

traceId

The trace identifier for request tracking.

Length Constraints: Minimum length of 0. Maximum length of 1024.

traceParent

The parent trace information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 1024.

Request Body

The request accepts the following data in JSON format.

certificates

A list of certificates to install in the browser session.

Type: Array of [Certificate](#) objects

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Required: No

clientToken

A unique, case-sensitive identifier to ensure that the API request completes no more than one time. If this token matches a previous request, Amazon Bedrock AgentCore ignores the request, but does not return an error. This parameter helps prevent the creation of duplicate sessions if there are temporary network issues.

Type: String

Length Constraints: Minimum length of 33. Maximum length of 256.

Pattern: `[a-zA-Z0-9](-*[a-zA-Z0-9]){0,256}`

Required: No

enterprisePolicies

A list of files containing enterprise policies for the browser.

Type: Array of [BrowserEnterprisePolicy](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

extensions

A list of browser extensions to load into the browser session.

Type: Array of [BrowserExtension](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

name

The name of the browser session. This name helps you identify and manage the session. The name does not need to be unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

profileConfiguration

The browser profile configuration to use for this session. A browser profile contains persistent data such as cookies and local storage that can be reused across multiple browser sessions. If specified, the session initializes with the profile's stored data, enabling continuity for tasks that require authentication or personalized settings.

Type: [BrowserProfileConfiguration](#) object

Required: No

proxyConfiguration

Optional proxy configuration for routing browser traffic through customer-specified proxy servers. When provided, enables HTTP Basic authentication via AWS Secrets Manager and domain-based routing rules. Requires `secretsmanager:GetSecretValue` IAM permission for the specified secret ARNs.

Type: [ProxyConfiguration](#) object

Required: No

sessionTimeoutSeconds

The duration in seconds (time-to-live) after which the session automatically terminates, regardless of ongoing activity. Defaults to 3600 seconds (1 hour). Recommended minimum: 60 seconds. Maximum allowed: 28,800 seconds (8 hours).

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 28800.

Required: No

[viewPort](#)

The dimensions of the browser viewport for this session. This determines the visible area of the web content and affects how web pages are rendered. If not specified, Amazon Bedrock AgentCore uses a default viewport size.

Type: [ViewPort](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "browserIdentifier": "string",
  "createdAt": "string",
  "sessionId": "string",
  "streams": {
    "automationStream": {
      "streamEndpoint": "string",
      "streamStatus": "string"
    },
    "liveViewStream": {
      "streamEndpoint": "string"
    }
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[browserIdentifier](#)

The identifier of the browser.

Type: String

createdAt

The timestamp when the browser session was created.

Type: Timestamp

sessionId

The unique identifier of the created browser session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

streams

The streams associated with this browser session. These include the automation stream and live view stream.

Type: [BrowserSessionStream](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartCodeInterpreterSession

Creates and initializes a code interpreter session in Amazon Bedrock AgentCore. The session enables agents to execute code as part of their response generation, supporting programming languages such as Python for data analysis, visualization, and computation tasks.

To create a session, you must specify a code interpreter identifier and a name. The session remains active until it times out or you explicitly stop it using the `StopCodeInterpreterSession` operation.

The following operations are related to `StartCodeInterpreterSession`:

- [InvokeCodeInterpreter](#)
- [GetCodeInterpreterSession](#)
- [StopCodeInterpreterSession](#)

Request Syntax

```
PUT /code-interpreters/codeInterpreterIdentifier/sessions/start HTTP/1.1
X-Amzn-Trace-Id: traceId
traceparent: traceParent
Content-type: application/json
```

```
{
  "certificates": [
    {
      "location": { ... }
    }
  ],
  "clientToken": "string",
  "name": "string",
  "sessionTimeoutSeconds": number
}
```

URI Request Parameters

The request uses the following URI parameters.

codeInterpreterIdentifier

The unique identifier of the code interpreter to use for this session. This identifier specifies which code interpreter environment to initialize for the session.

Required: Yes

traceId

The trace identifier for request tracking.

Length Constraints: Minimum length of 0. Maximum length of 1024.

traceParent

The parent trace information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 1024.

Request Body

The request accepts the following data in JSON format.

certificates

A list of certificates to install in the code interpreter session.

Type: Array of [Certificate](#) objects

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Required: No

clientToken

A unique, case-sensitive identifier to ensure that the API request completes no more than one time. If this token matches a previous request, Amazon Bedrock AgentCore ignores the request, but does not return an error. This parameter helps prevent the creation of duplicate sessions if there are temporary network issues.

Type: String

Length Constraints: Minimum length of 33. Maximum length of 256.

Pattern: `[a-zA-Z0-9](-*[a-zA-Z0-9]){0,256}`

Required: No

name

The name of the code interpreter session. This name helps you identify and manage the session. The name does not need to be unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

sessionTimeoutSeconds

The duration in seconds (time-to-live) after which the session automatically terminates, regardless of ongoing activity. Defaults to 900 seconds (15 minutes). Recommended minimum: 60 seconds. Maximum allowed: 28,800 seconds (8 hours).

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 28800.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "codeInterpreterIdentifier": "string",
  "createdAt": "string",
  "sessionId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

codeInterpreterIdentifier

The identifier of the code interpreter.

Type: String

createdAt

The time at which the code interpreter session was created.

Type: Timestamp

sessionId

The unique identifier of the created code interpreter session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartMemoryExtractionJob

Starts a memory extraction job that processes events that failed extraction previously in an AgentCore Memory resource and produces structured memory records. When earlier extraction attempts have left events unprocessed, this job will pick up and extract those as well.

To use this operation, you must have the `bedrock-agentcore:StartMemoryExtractionJob` permission.

Request Syntax

```
POST /memories/memoryId/extractionJobs/start HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "clientToken": "string",
  "extractionJob": {
    "jobId": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

memoryId

The unique identifier of the memory for which to start extraction jobs.

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9-_{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier to ensure idempotent processing of the request.

Type: String

Required: No

extractionJob

Extraction job to start in this operation.

Type: [ExtractionJob](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "jobId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

jobId

Extraction Job ID that was attempted to start.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceException

The service encountered an internal error. Try your request again later.

HTTP Status Code: 500

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottledException

The request was denied due to request throttling. Reduce the frequency of requests and try again.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StopBrowserSession

Terminates an active browser session in Amazon Bedrock AgentCore. This operation stops the session, releases associated resources, and makes the session unavailable for further use.

To stop a browser session, you must specify both the browser identifier and the session ID. Once stopped, a session cannot be restarted; you must create a new session using `StartBrowserSession`.

The following operations are related to `StopBrowserSession`:

- [StartBrowserSession](#)
- [GetBrowserSession](#)

Request Syntax

```
PUT /browsers/browserIdentifier/sessions/stop?sessionId=sessionId HTTP/1.1
X-Amzn-Trace-Id: traceId
traceparent: traceParent
Content-type: application/json

{
  "clientToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[browserIdentifier](#)

The unique identifier of the browser associated with the session.

Required: Yes

[sessionId](#)

The unique identifier of the browser session to stop.

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

traceId

The trace identifier for request tracking.

Length Constraints: Minimum length of 0. Maximum length of 1024.

traceParent

The parent trace information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 1024.

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier to ensure that the API request completes no more than one time. If this token matches a previous request, Amazon Bedrock AgentCore ignores the request, but does not return an error.

Type: String

Length Constraints: Minimum length of 33. Maximum length of 256.

Pattern: `[a-zA-Z0-9](-*[a-zA-Z0-9]){0,256}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "browserIdentifier": "string",
  "lastUpdatedAt": "string",
  "sessionId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

browserIdentifier

The identifier of the browser.

Type: String

lastUpdatedAt

The time at which the browser session was last updated.

Type: Timestamp

sessionId

The identifier of the browser session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StopCodeInterpreterSession

Terminates an active code interpreter session in Amazon Bedrock AgentCore. This operation stops the session, releases associated resources, and makes the session unavailable for further use.

To stop a code interpreter session, you must specify both the code interpreter identifier and the session ID. Once stopped, a session cannot be restarted; you must create a new session using `StartCodeInterpreterSession`.

The following operations are related to `StopCodeInterpreterSession`:

- [StartCodeInterpreterSession](#)
- [GetCodeInterpreterSession](#)

Request Syntax

```
PUT /code-interpreters/codeInterpreterIdentifier/sessions/stop?sessionId=sessionId
HTTP/1.1
X-Amzn-Trace-Id: traceId
traceparent: traceParent
Content-type: application/json

{
  "clientToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[codeInterpreterIdentifier](#)

The unique identifier of the code interpreter associated with the session.

Required: Yes

[sessionId](#)

The unique identifier of the code interpreter session to stop.

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

traceId

The trace identifier for request tracking.

Length Constraints: Minimum length of 0. Maximum length of 1024.

traceParent

The parent trace information for distributed tracing.

Length Constraints: Minimum length of 0. Maximum length of 1024.

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier to ensure that the API request completes no more than one time. If this token matches a previous request, Amazon Bedrock AgentCore ignores the request, but does not return an error.

Type: String

Length Constraints: Minimum length of 33. Maximum length of 256.

Pattern: `[a-zA-Z0-9](-*[a-zA-Z0-9]){0,256}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "codeInterpreterIdentifier": "string",
  "lastUpdatedAt": "string",
  "sessionId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

codeInterpreterIdentifier

The identifier of the code interpreter.

Type: String

lastUpdatedAt

The timestamp when the code interpreter session was last updated.

Type: Timestamp

sessionId

The identifier of the code interpreter session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StopRuntimeSession

Stops a session that is running in an running AgentCore Runtime agent.

Request Syntax

```
POST /runtimes/agentRuntimeArn/stopruntimesession?qualifier=qualifier HTTP/1.1
X-Amzn-Bedrock-AgentCore-Runtime-Session-Id: runtimeSessionId
Content-type: application/json

{
  "clientToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

agentRuntimeArn

The ARN of the agent that contains the session that you want to stop.

Required: Yes

qualifier

Optional qualifier to specify an agent alias, such as `prodcode>` or `dev`. If you don't provide a value, the DEFAULT alias is used.

runtimeSessionId

The ID of the session that you want to stop.

Length Constraints: Minimum length of 33. Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

Idempotent token used to identify the request. If you use the same token with multiple requests, the same response is returned. Use ClientToken to prevent the same request from being processed more than once.

Type: String

Length Constraints: Minimum length of 33. Maximum length of 256.

Pattern: `[a-zA-Z0-9](-*[a-zA-Z0-9]){0,256}`

Required: No

Response Syntax

```
HTTP/1.1 statusCode
X-Amzn-Bedrock-AgentCore-Runtime-Session-Id: runtimeSessionId
```

Response Elements

If the action is successful, the service sends back the following HTTP response.

statusCode

The status code of the request to stop the session.

The response returns the following HTTP headers.

runtimeSessionId

The ID of the session that you requested to stop.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_*]{0,99}`

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerError

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

RuntimeClientError

The exception that occurs when there is an error in the runtime client. This can happen due to network issues, invalid configuration, or other client-side problems. Check the error message for specific details about the error.

HTTP Status Code: 424

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

UnauthorizedException

This exception is thrown when the JWT bearer token is invalid or not found for OAuth bearer token based access

HTTP Status Code: 401

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateBrowserStream

Updates a browser stream. To use this operation, you must have permissions to perform the `bedrock:UpdateBrowserStream` action.

Request Syntax

```
PUT /browsers/browserIdentifier/sessions/streams/update?sessionId=sessionId HTTP/1.1  
Content-type: application/json
```

```
{  
  "clientToken": "string",  
  "streamUpdate": { ... }  
}
```

URI Request Parameters

The request uses the following URI parameters.

browserIdentifier

The identifier of the browser.

Required: Yes

sessionId

The identifier of the browser session.

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier to ensure that the operation completes no more than one time. If this token matches a previous request, Amazon Bedrock ignores the request, but does not return an error.

Type: String

Length Constraints: Minimum length of 33. Maximum length of 256.

Pattern: `[a-zA-Z0-9](-*[a-zA-Z0-9]){0,256}`

Required: No

[streamUpdate](#)

The update to apply to the browser stream.

Type: [StreamUpdate](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "browserIdentifier": "string",
  "sessionId": "string",
  "streams": {
    "automationStream": {
      "streamEndpoint": "string",
      "streamStatus": "string"
    },
    "liveViewStream": {
      "streamEndpoint": "string"
    }
  },
  "updatedAt": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

browserIdentifier

The identifier of the browser.

Type: String

sessionId

The identifier of the browser session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

streams

The collection of streams associated with a browser session in Amazon Bedrock AgentCore. These streams provide different ways to interact with and observe the browser session, including programmatic control and visual representation of the browser content.

Type: [BrowserSessionStream](#) object

updatedAt

The time at which the browser stream was updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

HTTP Status Code: 403

ConflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

HTTP Status Code: 409

InternalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

HTTP Status Code: 500

ResourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

HTTP Status Code: 404

ServiceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

HTTP Status Code: 402

ThrottlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

HTTP Status Code: 429

ValidationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Data Types

The Amazon Bedrock AgentCore API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [A2aDescriptor](#)
- [ActorSummary](#)
- [AgentCardDefinition](#)
- [AgentSkillsDescriptor](#)
- [AutomationStream](#)
- [AutomationStreamUpdate](#)
- [BasicAuth](#)
- [Branch](#)
- [BranchFilter](#)
- [BrowserAction](#)
- [BrowserActionResult](#)
- [BrowserEnterprisePolicy](#)
- [BrowserExtension](#)
- [BrowserProfileConfiguration](#)
- [BrowserSessionStream](#)
- [BrowserSessionSummary](#)
- [Certificate](#)
- [CertificateLocation](#)
- [CodeInterpreterResult](#)
- [CodeInterpreterSessionSummary](#)

- [CodeInterpreterStreamOutput](#)
- [Content](#)
- [ContentBlock](#)
- [ContentDeltaEvent](#)
- [ContentStartEvent](#)
- [ContentStopEvent](#)
- [Context](#)
- [Conversational](#)
- [CustomDescriptor](#)
- [Descriptors](#)
- [EvaluationContent](#)
- [EvaluationExpectedTrajectory](#)
- [EvaluationInput](#)
- [EvaluationReferenceInput](#)
- [EvaluationResultContent](#)
- [EvaluationTarget](#)
- [Event](#)
- [EventMetadataFilterExpression](#)
- [ExternalProxy](#)
- [ExtractionJob](#)
- [ExtractionJobFilterInput](#)
- [ExtractionJobMessages](#)
- [ExtractionJobMetadata](#)
- [FilterInput](#)
- [InputContentBlock](#)
- [InvokeAgentRuntimeCommandRequestBody](#)
- [InvokeAgentRuntimeCommandStreamOutput](#)
- [KeyPressArguments](#)
- [KeyPressResult](#)
- [KeyShortcutArguments](#)

- [KeyShortcutResult](#)
- [KeyTypeArguments](#)
- [KeyTypeResult](#)
- [LeftExpression](#)
- [LiveViewStream](#)
- [McpDescriptor](#)
- [MemoryContent](#)
- [MemoryMetadataFilterExpression](#)
- [MemoryRecord](#)
- [MemoryRecordCreateInput](#)
- [MemoryRecordDeleteInput](#)
- [MemoryRecordOutput](#)
- [MemoryRecordSummary](#)
- [MemoryRecordUpdateInput](#)
- [MessageMetadata](#)
- [MetadataValue](#)
- [MouseClickedArguments](#)
- [MouseClickedResult](#)
- [MouseDownArguments](#)
- [MouseDownResult](#)
- [MouseMoveArguments](#)
- [MouseMoveResult](#)
- [MouseScrollArguments](#)
- [MouseScrollResult](#)
- [PayloadType](#)
- [Proxy](#)
- [ProxyBypass](#)
- [ProxyConfiguration](#)
- [ProxyCredentials](#)
- [RegistryRecordSummary](#)

- [ResourceContent](#)
- [ResourceLocation](#)
- [ResponseChunk](#)
- [RightExpression](#)
- [S3Location](#)
- [ScreenshotArguments](#)
- [ScreenshotResult](#)
- [SearchCriteria](#)
- [SecretsManagerLocation](#)
- [ServerDefinition](#)
- [SessionFilter](#)
- [SessionSummary](#)
- [SkillDefinition](#)
- [SkillMdDefinition](#)
- [SpanContext](#)
- [StreamUpdate](#)
- [TokenUsage](#)
- [ToolArguments](#)
- [ToolResultStructuredContent](#)
- [ToolsDefinition](#)
- [UserIdentifier](#)
- [ValidationExceptionField](#)
- [ViewPort](#)

A2aDescriptor

The A2A (Agent-to-Agent) descriptor configuration for a registry record.

Contents

agentCard

The agent card definition that describes the agent's capabilities and interface.

Type: [AgentCardDefinition](#) object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ActorSummary

Contains summary information about an actor in an AgentCore Memory resource.

Contents

actorId

The unique identifier of the actor.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*(?::[a-zA-Z0-9-_/]+)*[a-zA-Z0-9-_/]*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AgentCardDefinition

The agent card definition for A2A descriptors, including the schema version and inline content that describes the agent's capabilities.

Contents

inlineContent

The inline content of the agent card definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 409600.

Required: No

schemaVersion

The schema version of the agent card definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AgentSkillsDescriptor

The agent skills descriptor configuration for a registry record.

Contents

skillMd

The skill description in markdown format.

Type: [SkillMdDefinition](#) object

Required: Yes

skillDefinition

The structured skill definition with a schema version and content.

Type: [SkillDefinition](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AutomationStream

The configuration for a stream that enables programmatic control of a browser session in Amazon Bedrock AgentCore. This stream provides a bidirectional communication channel for sending commands to the browser and receiving responses, allowing agents to automate web interactions such as navigation, form filling, and element clicking.

Contents

streamEndpoint

The endpoint URL for the automation stream. This URL is used to establish a WebSocket connection to the stream for sending commands and receiving responses.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 512.

Required: Yes

streamStatus

The current status of the automation stream. This indicates whether the stream is available for use. Possible values include ACTIVE, CONNECTING, and DISCONNECTED.

Type: String

Valid Values: ENABLED | DISABLED

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AutomationStreamUpdate

Contains information about an update to an automation stream.

Contents

streamStatus

The status of the automation stream.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BasicAuth

Configuration for HTTP Basic Authentication using credentials stored in AWS Secrets Manager. The secret must contain a JSON object with username and password string fields. Username allows alphanumeric characters and @._+=- symbols (pattern: `^[a-zA-Z0-9@._+=-\-]+$`). Password allows alphanumeric characters and @._+=-!#\$%&* symbols (pattern: `^[a-zA-Z0-9@._+=-!#$%&*]+$`). Both fields have a maximum length of 256 characters.

Contents

secretArn

The Amazon Resource Name (ARN) of the AWS Secrets Manager secret containing proxy credentials. The secret must be a JSON object with username and password string fields that meet validation requirements. The caller must have `secretsmanager:GetSecretValue` permission for this ARN. Example secret format: `{"username": "proxy_user", "password": "secure_password"}`

Type: String

Pattern: `arn:aws(-[a-z-]+)?:secretsmanager:[a-z0-9-]+:[0-9]{12}:secret:[a-zA-Z0-9/_+=-.@-]+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Branch

Contains information about a branch in an AgentCore Memory resource. Branches allow for organizing events into different conversation threads or paths.

Contents

name

The name of the branch.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_*]`

Required: Yes

rootEventId

The identifier of the root event for this branch.

Type: String

Pattern: `[0-9]+#[a-fA-F0-9]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BranchFilter

Contains filter criteria for branches when listing events.

Contents

name

The name of the branch to filter by.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_*]`

Required: Yes

includeParentBranches

Specifies whether to include parent branches in the results. Set to true to include parent branches, or false to exclude them.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BrowserAction

The browser action to perform. Exactly one member must be set per request.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

keyPress

Press a key one or more times.

Type: [KeyPressArguments](#) object

Required: No

keyShortcut

Press a key combination.

Type: [KeyShortcutArguments](#) object

Required: No

keyType

Type a string of text.

Type: [KeyTypeArguments](#) object

Required: No

mouseClick

Click at the specified coordinates.

Type: [MouseClickedArguments](#) object

Required: No

mouseDrag

Drag from a start position to an end position.

Type: [MouseDownArguments](#) object

Required: No

mouseMove

Move the cursor to the specified coordinates.

Type: [MouseMoveArguments](#) object

Required: No

mouseScroll

Scroll at the specified position.

Type: [MouseScrollArguments](#) object

Required: No

screenshot

Capture a full-screen screenshot.

Type: [ScreenshotArguments](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BrowserActionResult

The result of a browser action execution. Exactly one member is set, matching the action that was performed.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

keyPress

The result of a key press action.

Type: [KeyPressResult](#) object

Required: No

keyShortcut

The result of a key shortcut action.

Type: [KeyShortcutResult](#) object

Required: No

keyType

The result of a key type action.

Type: [KeyTypeResult](#) object

Required: No

mouseClick

The result of a mouse click action.

Type: [MouseClickedResult](#) object

Required: No

mouseDrag

The result of a mouse drag action.

Type: [MouseDownResult](#) object

Required: No

mouseMove

The result of a mouse move action.

Type: [MouseMoveResult](#) object

Required: No

mouseScroll

The result of a mouse scroll action.

Type: [MouseScrollResult](#) object

Required: No

screenshot

The result of a screenshot action.

Type: [ScreenshotResult](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BrowserEnterprisePolicy

Browser enterprise policy configuration.

Contents

location

The location of the enterprise policy file.

Type: [ResourceLocation](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

type

The enterprise policy type. See [BrowserEnterprisePolicyType](#).

Type: String

Valid Values: MANAGED | RECOMMENDED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BrowserExtension

Browser extension configuration.

Contents

location

The location where the browser extension files are stored. This specifies the source from which the extension will be loaded and installed.

Type: [ResourceLocation](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BrowserProfileConfiguration

The configuration for a browser profile in Amazon Bedrock AgentCore. A browser profile contains persistent browser data such as cookies and local storage that can be saved from one browser session and reused in subsequent sessions. Browser profiles enable continuity for tasks that require authentication, maintain user preferences, or depend on previously stored browser state.

Contents

profileIdentifier

The unique identifier of the browser profile. This identifier is used to reference the profile when starting new browser sessions or saving session data to the profile.

Type: String

Pattern: `[a-zA-Z][a-zA-Z0-9_]{0,47}-[a-zA-Z0-9]{10}`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BrowserSessionStream

The collection of streams associated with a browser session in Amazon Bedrock AgentCore. These streams provide different ways to interact with and observe the browser session, including programmatic control and visual representation of the browser content.

Contents

automationStream

The stream that enables programmatic control of the browser. This stream allows agents to perform actions such as navigating to URLs, clicking elements, and filling forms.

Type: [AutomationStream](#) object

Required: Yes

liveViewStream

The stream that provides a visual representation of the browser content. This stream allows agents to observe the current state of the browser, including rendered web pages and visual elements.

Type: [LiveViewStream](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BrowserSessionSummary

A condensed representation of a browser session in Amazon Bedrock AgentCore. This structure contains key information about a browser session, including identifiers, status, and timestamps, without the full details of the session configuration and streams.

Contents

browserIdentifier

The unique identifier of the browser associated with the session. This identifier specifies which browser environment is used for the session.

Type: String

Required: Yes

createdAt

The timestamp when the browser session was created. This value is in ISO 8601 format.

Type: Timestamp

Required: Yes

sessionId

The unique identifier of the browser session. This identifier is used in operations that interact with the session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

status

The current status of the browser session. Possible values include ACTIVE, STOPPING, and STOPPED.

Type: String

Valid Values: READY | TERMINATED

Required: Yes

lastUpdatedAt

The timestamp when the browser session was last updated. This value is in ISO 8601 format.

Type: Timestamp

Required: No

name

The name of the browser session. This name helps identify and manage the session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Certificate

A certificate to install in the browser or code interpreter session.

Contents

location

The location of the certificate.

Type: [CertificateLocation](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CertificateLocation

The location from which to retrieve a certificate.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

secretsManager

The AWS Secrets Manager location of the certificate.

Type: [SecretsManagerLocation](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodeInterpreterResult

The output produced by executing code in a code interpreter session in Amazon Bedrock AgentCore. This structure contains the results of code execution, including textual output, structured data, and error information. Agents use these results to generate responses that incorporate computation, data analysis, and visualization.

Contents

content

The textual content of the execution result. This includes standard output from the code execution, such as print statements, console output, and text representations of results.

Type: Array of [ContentBlock](#) objects

Required: Yes

isError

Indicates whether the result represents an error. If true, the content contains error messages or exception information. If false, the content contains successful execution results.

Type: Boolean

Required: No

structuredContent

The structured content of the execution result. This includes additional metadata about the execution, such as execution time, memory usage, and structured representations of output data. The format depends on the specific code interpreter and execution context.

Type: [ToolResultStructuredContent](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodeInterpreterSessionSummary

A condensed representation of a code interpreter session in Amazon Bedrock AgentCore. This structure contains key information about a code interpreter session, including identifiers, status, and timestamps, without the full details of the session configuration.

Contents

codeInterpreterIdentifier

The unique identifier of the code interpreter associated with the session. This identifier specifies which code interpreter environment is used for the session.

Type: String

Required: Yes

createdAt

The timestamp when the code interpreter session was created. This value is in ISO 8601 format.

Type: Timestamp

Required: Yes

sessionId

The unique identifier of the code interpreter session. This identifier is used in operations that interact with the session.

Type: String

Pattern: `[0-9a-zA-Z]{1,40}`

Required: Yes

status

The current status of the code interpreter session. Possible values include ACTIVE, STOPPING, and STOPPED.

Type: String

Valid Values: READY | TERMINATED

Required: Yes

lastUpdatedAt

The timestamp when the code interpreter session was last updated. This value is in ISO 8601 format.

Type: Timestamp

Required: No

name

The name of the code interpreter session. This name helps identify and manage the session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodeInterpreterStreamOutput

Contains output from a code interpreter stream.

Contents

accessDeniedException

The exception that occurs when you do not have sufficient permissions to perform an action. Verify that your IAM policy includes the necessary permissions for the operation you are trying to perform.

Type: Exception

HTTP Status Code: 403

Required: No

conflictException

The exception that occurs when the request conflicts with the current state of the resource. This can happen when trying to modify a resource that is currently being modified by another request, or when trying to create a resource that already exists.

Type: Exception

HTTP Status Code: 409

Required: No

internalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

Type: Exception

HTTP Status Code: 500

Required: No

resourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

Type: Exception

HTTP Status Code: 404

Required: No

result

The output produced by executing code in a code interpreter session in Amazon Bedrock AgentCore. This structure contains the results of code execution, including textual output, structured data, and error information. Agents use these results to generate responses that incorporate computation, data analysis, and visualization.

Type: [CodeInterpreterResult](#) object

Required: No

serviceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

Type: Exception

HTTP Status Code: 402

Required: No

throttlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

Type: Exception

HTTP Status Code: 429

Required: No

validationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

Type: Exception

HTTP Status Code: 400

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Content

Contains the content of a memory item.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

text

The text content of the memory item.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ContentBlock

A block of content in a response.

Contents

type

The type of content in the block.

Type: String

Valid Values: `text` | `image` | `resource` | `resource_link`

Required: Yes

data

The binary data content of the block.

Type: Base64-encoded binary data object

Required: No

description

The description of the content block.

Type: String

Required: No

mimeType

The MIME type of the content.

Type: String

Required: No

name

The name of the content block.

Type: String

Required: No

resource

The resource associated with the content block.

Type: [ResourceContent](#) object

Required: No

size

The size of the content in bytes.

Type: Long

Required: No

text

The text content of the block.

Type: String

Required: No

uri

The URI of the content.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ContentDeltaEvent

An event that contains incremental output from a command execution. This event streams standard output and standard error content as it becomes available during command execution.

Contents

stderr

The standard error content from the command execution. This field contains the incremental output written to stderr by the executing command.

Type: String

Required: No

stdout

The standard output content from the command execution. This field contains the incremental output written to stdout by the executing command.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ContentStartEvent

An event that signals the start of content streaming from a command execution. This event is sent when the command begins producing output.

Contents

The members of this exception structure are context-dependent.

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ContentStopEvent

An event that signals the completion of a command execution. This event contains the final status and exit code of the executed command.

Contents

exitCode

The exit code returned by the executed command. An exit code of 0 indicates successful execution, -1 indicates a platform error, and values greater than 0 indicate command-specific errors.

Type: Integer

Required: Yes

status

The final status of the command execution. Valid values are COMPLETED for successful completion or TIMED_OUT if the command exceeded the specified timeout.

Type: String

Valid Values: COMPLETED | TIMED_OUT

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Context

The contextual information associated with an evaluation, including span context details that identify the specific traces and sessions being evaluated within the agent's execution flow.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

spanContext

The span context information that uniquely identifies the trace and span being evaluated, including session ID, trace ID, and span ID for precise targeting within the agent's execution flow.

Type: [SpanContext](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Conversational

Contains conversational content for an event payload.

Contents

content

The content of the conversation message.

Type: [Content](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

role

The role of the participant in the conversation (for example, "user" or "assistant").

Type: String

Valid Values: ASSISTANT | USER | TOOL | OTHER

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CustomDescriptor

A custom descriptor configuration for a registry record.

Contents

inlineContent

The inline content of the custom descriptor.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 409600.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Descriptors

Contains the descriptor configuration for a registry record. Only the field that matches the record's `descriptorType` is populated.

Contents

a2a

The A2A (Agent-to-Agent) descriptor configuration. Populated when the record's `descriptorType` is A2A.

Type: [A2aDescriptor](#) object

Required: No

agentSkills

The agent skills descriptor configuration. Populated when the record's `descriptorType` is AGENT_SKILLS.

Type: [AgentSkillsDescriptor](#) object

Required: No

custom

The custom descriptor configuration. Populated when the record's `descriptorType` is CUSTOM.

Type: [CustomDescriptor](#) object

Required: No

mcp

The MCP (Model Context Protocol) descriptor configuration. Populated when the record's `descriptorType` is MCP.

Type: [McpDescriptor](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EvaluationContent

A content block for ground truth data in evaluation reference inputs. Supports text content for expected responses and assertions.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

text

The text content of the ground truth data. Used for expected response text and assertion statements.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EvaluationExpectedTrajectory

The expected tool call trajectory for trajectory-based evaluation.

Contents

toolNames

The list of tool names representing the expected tool call sequence.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EvaluationInput

The input data structure containing agent session spans in OpenTelemetry format. Supports traces from frameworks like Strands (AgentCore Runtime) and LangGraph with OpenInference instrumentation for comprehensive evaluation.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

sessionSpans

The collection of spans representing agent execution traces within a session. Each span contains detailed information about tool calls, model interactions, and other agent activities that can be evaluated for quality and performance.

Type: Array of JSON values

Array Members: Minimum number of 1 item. Maximum number of 1000 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EvaluationReferenceInput

A reference input containing ground truth data for evaluation, scoped to a specific context level (session or trace) through its span context.

Contents

context

The contextual information associated with an evaluation, including span context details that identify the specific traces and sessions being evaluated within the agent's execution flow.

Type: [Context](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

assertions

A list of assertion statements for session-level evaluation. Each assertion describes an expected behavior or outcome the agent should demonstrate during the session.

Type: Array of [EvaluationContent](#) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: No

expectedResponse

The expected response for trace-level evaluation. Built-in evaluators that support this field compare the agent's actual response against this value for assessment. Custom evaluators can access it through the `{expected_response}` placeholder in their instructions.

Type: [EvaluationContent](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

expectedTrajectory

The expected tool call sequence for session-level trajectory evaluation. Contains a list of tool names representing the tools the agent is expected to invoke.

Type: [EvaluationExpectedTrajectory](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EvaluationResultContent

The comprehensive result of an evaluation containing the score, explanation, evaluator metadata, and execution details. Provides both quantitative ratings and qualitative insights about agent performance.

Contents

context

The contextual information associated with this evaluation result, including span context details that identify the specific traces and sessions that were evaluated.

Type: [Context](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

evaluatorArn

The Amazon Resource Name (ARN) of the evaluator used to generate this result. For custom evaluators, this is the full ARN; for built-in evaluators, this follows the pattern `Builtin.{EvaluatorName}`.

Type: String

Pattern: `arn:aws:bedrock-agentcore:[a-z0-9-]+:[0-9]{12}:evaluator\|[a-zA-Z][a-zA-Z0-9-]{0,99}-[a-zA-Z0-9]{10}$|^arn:aws:bedrock-agentcore::evaluator/Builtin.[a-zA-Z0-9-]+`

Required: Yes

evaluatorId

The unique identifier of the evaluator that produced this result. This matches the `evaluatorId` provided in the evaluation request and can be used to identify which evaluator generated specific results.

Type: String

Pattern: `(Builtin.[a-zA-Z0-9-]+|[a-zA-Z][a-zA-Z0-9-]{0,99}-[a-zA-Z0-9]{10})`

Required: Yes

evaluatorName

The human-readable name of the evaluator used for this evaluation. For built-in evaluators, this is the descriptive name (e.g., "Helpfulness", "Correctness"); for custom evaluators, this is the user-defined name.

Type: String

Pattern: `(Builtin.[a-zA-Z0-9_-]+|[a-zA-Z][a-zA-Z0-9_]{0,47})`

Required: Yes

errorCode

The error code indicating the type of failure that occurred during evaluation. Used to programmatically identify and handle different categories of evaluation errors.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

errorMessage

The error message describing what went wrong if the evaluation failed. Provides detailed information about evaluation failures to help diagnose and resolve issues with evaluator configuration or input data.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Required: No

explanation

The detailed explanation provided by the evaluator describing the reasoning behind the assigned score. This qualitative feedback helps understand why specific ratings were given and provides actionable insights for improvement.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Required: No

ignoredReferenceInputFields

The list of reference input field names that were provided but not used by the evaluator. Helps identify which ground truth data was not consumed during evaluation.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

label

The categorical label assigned by the evaluator when using a categorical rating scale. This provides a human-readable description of the evaluation result (e.g., "Excellent", "Good", "Poor") corresponding to the numerical value. For numerical scales, this field is optional and provides a natural language explanation of what the value means (e.g., value 0.5 = "Somewhat Helpful").

Type: String

Required: No

tokenUsage

The token consumption statistics for this evaluation, including input tokens, output tokens, and total tokens used by the underlying language model during the evaluation process.

Type: [TokenUsage](#) object

Required: No

value

The numerical score assigned by the evaluator according to its configured rating scale. For numerical scales, this is a decimal value within the defined range. This field is not allowed for categorical scales.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EvaluationTarget

The specification of which trace or span IDs to evaluate within the provided input data. Allows precise targeting of evaluation at different levels: tool calls, traces, or sessions.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

spanIds

The list of specific span IDs to evaluate within the provided traces. Used to target evaluation at individual tool calls or specific operations within the agent's execution flow.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Fixed length of 16.

Required: No

tracelds

The list of trace IDs to evaluate, representing complete request-response interactions. Used to evaluate entire conversation turns or specific agent interactions within a session.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Fixed length of 32.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Event

Contains information about an event in an AgentCore Memory resource.

Contents

actorId

The identifier of the actor associated with the event.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_]*(?::[a-zA-Z0-9-_]+)*[a-zA-Z0-9-_]*`

Required: Yes

eventId

The unique identifier of the event.

Type: String

Pattern: `[0-9]+#[a-fA-F0-9]+`

Required: Yes

eventTimestamp

The timestamp when the event occurred.

Type: Timestamp

Required: Yes

memoryId

The identifier of the AgentCore Memory resource containing the event.

Type: String

Length Constraints: Minimum length of 12.

Pattern: `[a-zA-Z][a-zA-Z0-9_-]{0,99}-[a-zA-Z0-9]{10}`

Required: Yes

payload

The content payload of the event.

Type: Array of [PayloadType](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: Yes

sessionId

The identifier of the session containing the event.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_*]`

Required: Yes

branch

The branch information for the event.

Type: [Branch](#) object

Required: No

metadata

Metadata associated with an event.

Type: String to [MetadataValue](#) object map

Map Entries: Minimum number of 0 items. Maximum number of 15 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[a-zA-Z0-9\s._:/=+@-]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EventMetadataFilterExpression

Filter expression for retrieving events based on metadata associated with an event.

Contents

left

Left operand of the event metadata filter expression.

Type: [LeftExpression](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

operator

Operator applied to the event metadata filter expression.

Type: String

Valid Values: EQUALS_TO | EXISTS | NOT_EXISTS

Required: Yes

right

Right operand of the event metadata filter expression.

Type: [RightExpression](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

ExternalProxy

Configuration for a customer-managed external proxy server. Includes server location, optional domain-based routing patterns, and authentication credentials.

Contents

port

The port number of the proxy server. Valid range: 1-65535.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: Yes

server

The hostname of the proxy server. Must be a valid DNS hostname (maximum 253 characters).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `[a-zA-Z0-9]([a-zA-Z0-9\-\]{0,61}[a-zA-Z0-9])?(\.[a-zA-Z0-9]([a-zA-Z0-9\-\]{0,61}[a-zA-Z0-9])?)*`

Required: Yes

credentials

Optional authentication credentials for the proxy server. If omitted, the proxy is accessed without authentication (useful for IP-allowlisted proxies).

Type: [ProxyCredentials](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

domainPatterns

Optional array of domain patterns that should route through this specific proxy. Supports `.example.com` for subdomain matching (matches any subdomain of example.com) or

example.com for exact domain matching. If omitted, this proxy acts as a catch-all for domains not matched by other proxies. Maximum 100 patterns per proxy, each up to 253 characters.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `(\.)?[a-zA-Z0-9]([a-zA-Z0-9\-\]{0,61}[a-zA-Z0-9])?(\.[a-zA-Z0-9]([a-zA-Z0-9\-\]{0,61}[a-zA-Z0-9]))?*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ExtractionJob

Represents the metadata of a memory extraction job such as the message identifiers that compose this job.

Contents

jobId

The unique identifier of the extraction job.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ExtractionJobFilterInput

Filters for querying memory extraction jobs based on various criteria.

Contents

actorId

The identifier of the actor. If specified, only extraction jobs with this actor ID are returned.

Type: String

Required: No

sessionId

The unique identifier of the session. If specified, only extraction jobs with this session ID are returned.

Type: String

Required: No

status

The status of the extraction job. If specified, only extraction jobs with this status are returned.

Type: String

Valid Values: FAILED

Required: No

strategyId

The memory strategy identifier to filter extraction jobs by. If specified, only extraction jobs with this strategy ID are returned.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ExtractionJobMessages

The list of messages that compose this extraction job.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

messagesList

The list of messages that compose this extraction job.

Type: Array of [MessageMetadata](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ExtractionJobMetadata

Metadata information associated with this extraction job.

Contents

jobID

The unique identifier for the extraction job.

Type: String

Required: Yes

messages

The messages associated with the extraction job.

Type: [ExtractionJobMessages](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

actorId

The identifier of the actor for this extraction job.

Type: String

Required: No

failureReason

The cause of failure, if the job did not complete successfully.

Type: String

Required: No

sessionId

The identifier of the session for this extraction job.

Type: String

Required: No

status

The current status of the extraction job.

Type: String

Valid Values: FAILED

Required: No

strategyId

The identifier of the memory strategy for this extraction job.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FilterInput

Contains filter criteria for listing events.

Contents

branch

The branch filter criteria to apply when listing events.

Type: [BranchFilter](#) object

Required: No

eventMetadata

Event metadata filter criteria to apply when retrieving events.

Type: Array of [EventMetadataFilterExpression](#) objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

InputContentBlock

A block of input content.

Contents

path

The path to the input content.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: Yes

blob

The binary input content.

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

text

The text input content.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

InvokeAgentRuntimeCommandRequestBody

The request body structure for the `InvokeAgentRuntimeCommand` operation, containing the command to execute and optional configuration parameters.

Contents

command

The shell command to execute on the agent runtime. This command is executed in the runtime environment and its output is streamed back to the caller.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Required: Yes

timeout

The maximum duration in seconds to wait for the command to complete. If the command execution exceeds this timeout, it will be terminated. Default is 300 seconds. Minimum is 1 second. Maximum is 3600 seconds.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

InvokeAgentRuntimeCommandStreamOutput

The streaming output union for the `InvokeAgentRuntimeCommand` operation. This union delivers typed events: `contentStart` (first), `contentDelta` (middle), and `contentStop` (last).

Contents

accessDeniedException

Exception events for error streaming.

Type: Exception

HTTP Status Code: 403

Required: No

chunk

A response chunk containing command execution events such as content start, content delta, or content stop events.

Type: [ResponseChunk](#) object

Required: No

internalServerErrorException

The exception that occurs when the service encounters an unexpected internal error. This is a temporary condition that will resolve itself with retries. We recommend implementing exponential backoff retry logic in your application.

Type: Exception

HTTP Status Code: 500

Required: No

resourceNotFoundException

The exception that occurs when the specified resource does not exist. This can happen when using an invalid identifier or when trying to access a resource that has been deleted.

Type: Exception

HTTP Status Code: 404

Required: No

runtimeClientError

The exception that occurs when there is an error in the runtime client. This can happen due to network issues, invalid configuration, or other client-side problems. Check the error message for specific details about the error.

Type: Exception

HTTP Status Code: 424

Required: No

serviceQuotaExceededException

The exception that occurs when the request would cause a service quota to be exceeded. Review your service quotas and either reduce your request rate or request a quota increase.

Type: Exception

HTTP Status Code: 402

Required: No

throttlingException

The exception that occurs when the request was denied due to request throttling. This happens when you exceed the allowed request rate for an operation. Reduce the frequency of requests or implement exponential backoff retry logic in your application.

Type: Exception

HTTP Status Code: 429

Required: No

validationException

The exception that occurs when the input fails to satisfy the constraints specified by the service. Check the error message for details about which input parameter is invalid and correct your request.

Type: Exception

HTTP Status Code: 400

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KeyPressArguments

Arguments for a key press action.

Contents

key

The key name to press (for example, `enter`, `tab`, `escape`).

Type: String

Required: Yes

presses

The number of times to press the key. Valid range: 1–100. Defaults to 1.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KeyPressResult

The result of a key press action.

Contents

status

The status of the action execution.

Type: String

Valid Values: SUCCESS | FAILED

Required: Yes

error

The error message. Present only when the action failed.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KeyShortcutArguments

Arguments for a key shortcut action.

Contents

keys

The key combination to press (for example, `["ctrl", "s"]`). Maximum 5 keys.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KeyShortcutResult

The result of a key shortcut action.

Contents

status

The status of the action execution.

Type: String

Valid Values: SUCCESS | FAILED

Required: Yes

error

The error message. Present only when the action failed.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KeyTypeArguments

Arguments for a key type action.

Contents

text

The text string to type. Maximum length: 10,000 characters.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KeyTypeResult

The result of a key type action.

Contents

status

The status of the action execution.

Type: String

Valid Values: SUCCESS | FAILED

Required: Yes

error

The error message. Present only when the action failed.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LeftExpression

Left expression of the event metadata filter.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

metadataKey

Key associated with the metadata in an event.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9\s._:/=+@-]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LiveViewStream

The configuration for a stream that provides a visual representation of a browser session in Amazon Bedrock AgentCore. This stream enables agents to observe the current state of the browser, including rendered web pages, visual elements, and the results of interactions.

Contents

`streamEndpoint`

The endpoint URL for the live view stream. This URL is used to establish a connection to receive visual updates from the browser session.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 512.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

McpDescriptor

The MCP (Model Context Protocol) descriptor configuration for a registry record. Contains the server definition and tools definition.

Contents

server

The MCP server definition that describes the server configuration.

Type: [ServerDefinition](#) object

Required: Yes

tools

The MCP tools definition that describes the available tools.

Type: [ToolsDefinition](#) object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MemoryContent

Contains the content of a memory record.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

text

The text content of the memory record.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MemoryMetadataFilterExpression

Filters to apply to metadata associated with a memory. Specify the metadata key and value in the `left` and `right` fields and use the `operator` field to define the relationship to match.

Contents

left

Left expression of the event metadata filter.

Type: [LeftExpression](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

operator

The relationship between the metadata key and value to match when applying the metadata filter.

Type: String

Valid Values: `EQUALS_TO` | `EXISTS` | `NOT_EXISTS`

Required: Yes

right

Right expression of the eventMetadatafilter.

Type: [RightExpression](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MemoryRecord

Contains information about a memory record in an AgentCore Memory resource.

Contents

content

The content of the memory record.

Type: [MemoryContent](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

createdAt

The timestamp when the memory record was created.

Type: Timestamp

Required: Yes

memoryRecordId

The unique identifier of the memory record.

Type: String

Length Constraints: Minimum length of 40. Maximum length of 50.

Pattern: mem-[a-zA-Z0-9-]*

Required: Yes

memoryStrategyId

The identifier of the memory strategy associated with this record.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9][a-zA-Z0-9-]*

Required: Yes

namespaces

The namespaces associated with this memory record. Namespaces help organize and categorize memory records.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[a-zA-Z0-9/*][a-zA-Z0-9-_/]*(?::[a-zA-Z0-9-_/]*+)*[a-zA-Z0-9-_/]*`

Required: Yes

metadata

A map of metadata key-value pairs associated with a memory record.

Type: String to [MetadataValue](#) object map

Map Entries: Minimum number of 0 items. Maximum number of 15 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[a-zA-Z0-9\s._:/=+@-]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MemoryRecordCreateInput

Input structure to create a new memory record.

Contents

content

The content to be stored within the memory record.

Type: [MemoryContent](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

namespaces

A list of namespace identifiers that categorize or group the memory record.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[a-zA-Z0-9/*][a-zA-Z0-9-_/]*(?::[a-zA-Z0-9-_/]*+)*[a-zA-Z0-9-_/]*`

Required: Yes

requestIdentifier

A client-provided identifier for tracking this specific record creation request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 80.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

timestamp

Time at which the memory record was created.

Type: Timestamp

Required: Yes

memoryStrategyId

The ID of the memory strategy that defines how this memory record is grouped.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9][a-zA-Z0-9-_*]

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MemoryRecordDeleteInput

Input structure to delete an existing memory record.

Contents

memoryRecordId

The unique ID of the memory record to be deleted.

Type: String

Length Constraints: Minimum length of 40. Maximum length of 50.

Pattern: mem-[a-zA-Z0-9-_*]

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MemoryRecordOutput

Output information returned after processing a memory record operation.

Contents

memoryRecordId

The unique ID associated to the memory record.

Type: String

Length Constraints: Minimum length of 40. Maximum length of 50.

Pattern: mem-[a-zA-Z0-9-]*

Required: Yes

status

The status of the memory record operation (e.g., SUCCEEDED, FAILED).

Type: String

Valid Values: SUCCEEDED | FAILED

Required: Yes

errorCode

The error code returned when the memory record operation fails.

Type: Integer

Required: No

errorMessage

A human-readable error message describing why the memory record operation failed.

Type: String

Required: No

requestIdentifier

The client-provided identifier that was used to track this record operation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 80.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MemoryRecordSummary

Contains summary information about a memory record.

Contents

content

The content of the memory record.

Type: [MemoryContent](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

createdAt

The timestamp when the memory record was created.

Type: Timestamp

Required: Yes

memoryRecordId

The unique identifier of the memory record.

Type: String

Length Constraints: Minimum length of 40. Maximum length of 50.

Pattern: mem-[a-zA-Z0-9-]*

Required: Yes

memoryStrategyId

The identifier of the memory strategy associated with this record.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9][a-zA-Z0-9-]*

Required: Yes

namespaces

The namespaces associated with this memory record.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[a-zA-Z0-9/*][a-zA-Z0-9-_/]**(?::[a-zA-Z0-9-_/]*+)*[a-zA-Z0-9-_/]*`

Required: Yes

metadata

A map of metadata key-value pairs associated with a memory record.

Type: String to [MetadataValue](#) object map

Map Entries: Minimum number of 0 items. Maximum number of 15 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[a-zA-Z0-9\s._:/=+@-]*`

Required: No

score

The relevance score of the memory record when returned as part of a search result. Higher values indicate greater relevance to the search query.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MemoryRecordUpdateInput

Input structure to update an existing memory record.

Contents

memoryRecordId

The unique ID of the memory record to be updated.

Type: String

Length Constraints: Minimum length of 40. Maximum length of 50.

Pattern: mem-[a-zA-Z0-9-_*]

Required: Yes

timestamp

Time at which the memory record was updated

Type: Timestamp

Required: Yes

content

The content to be stored within the memory record.

Type: [MemoryContent](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

memoryStrategyId

The updated ID of the memory strategy that defines how this memory record is grouped.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9][a-zA-Z0-9-_*]

Required: No

namespaces

The updated list of namespace identifiers for categorizing the memory record.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[a-zA-Z0-9/*][a-zA-Z0-9-_/]*(:|[a-zA-Z0-9-_/]*+)*[a-zA-Z0-9-_/]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MessageMetadata

Metadata information associated with this message.

Contents

eventId

The identifier of the event associated with this message.

Type: String

Required: Yes

messageIndex

The position of this message within that event's ordered list of messages.

Type: Integer

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MetadataValue

Value associated with the eventMetadata key.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

stringValue

Value associated with the eventMetadata key.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[a-zA-Z0-9\s._:/=+@-]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MouseClickedArguments

Arguments for a mouse click action.

Contents

x

The X coordinate on screen where the click occurs.

Type: Integer

Required: Yes

y

The Y coordinate on screen where the click occurs.

Type: Integer

Required: Yes

button

The mouse button to use. Defaults to LEFT.

Type: String

Valid Values: LEFT | RIGHT | MIDDLE

Required: No

clickCount

The number of clicks to perform. Valid range: 1–10. Defaults to 1.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MouseClickedResult

The result of a mouse click action.

Contents

status

The status of the action execution.

Type: String

Valid Values: SUCCESS | FAILED

Required: Yes

error

The error message. Present only when the action failed.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MouseDownArguments

Arguments for a mouse drag action.

Contents

endX

The ending X coordinate for the drag.

Type: Integer

Required: Yes

endY

The ending Y coordinate for the drag.

Type: Integer

Required: Yes

startX

The starting X coordinate for the drag.

Type: Integer

Required: Yes

startY

The starting Y coordinate for the drag.

Type: Integer

Required: Yes

button

The mouse button to use for the drag. Defaults to LEFT.

Type: String

Valid Values: LEFT | RIGHT | MIDDLE

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MouseDragResult

The result of a mouse drag action.

Contents

status

The status of the action execution.

Type: String

Valid Values: SUCCESS | FAILED

Required: Yes

error

The error message. Present only when the action failed.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MouseMoveArguments

Arguments for a mouse move action.

Contents

x

The target X coordinate on screen.

Type: Integer

Required: Yes

y

The target Y coordinate on screen.

Type: Integer

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MouseMoveResult

The result of a mouse move action.

Contents

status

The status of the action execution.

Type: String

Valid Values: SUCCESS | FAILED

Required: Yes

error

The error message. Present only when the action failed.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MouseScrollArguments

Arguments for a mouse scroll action.

Contents

x

The X coordinate on screen where the scroll occurs.

Type: Integer

Required: Yes

y

The Y coordinate on screen where the scroll occurs.

Type: Integer

Required: Yes

deltaX

The horizontal scroll delta. Valid range: -1000 to 1000.

Type: Integer

Valid Range: Minimum value of -1000. Maximum value of 1000.

Required: No

deltaY

The vertical scroll delta. Valid range: -1000 to 1000. Negative values scroll down.

Type: Integer

Valid Range: Minimum value of -1000. Maximum value of 1000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MouseScrollResult

The result of a mouse scroll action.

Contents

status

The status of the action execution.

Type: String

Valid Values: SUCCESS | FAILED

Required: Yes

error

The error message. Present only when the action failed.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PayloadType

Contains the payload content for an event.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

blob

The binary content of the payload.

Type: JSON value

Required: No

conversational

The conversational content of the payload.

Type: [Conversational](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Proxy

Union type representing different proxy configurations. Currently supports external customer-managed proxies.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

externalProxy

Configuration for an external customer-managed proxy server.

Type: [ExternalProxy](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ProxyBypass

Configuration for domains that should bypass all proxies and connect directly to the internet. These bypass rules take precedence over all proxy routing rules.

Contents

domainPatterns

Array of domain patterns that should bypass the proxy. Supports `.amazonaws.com` for subdomain matching or `amazonaws.com` for exact domain matching. Requests to these domains connect directly without using any proxy. Maximum 253 characters per pattern.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `(\.)?[a-zA-Z0-9]([a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?(\.[a-zA-Z0-9]([a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?)*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ProxyConfiguration

Configuration for routing browser traffic through customer-managed proxy servers. Supports 1-5 proxy servers for domain-based routing and proxy bypass rules.

Contents

proxies

An array of 1-5 proxy server configurations for domain-based routing. Each proxy can specify which domains it handles via `domainPatterns`, enabling flexible routing of different traffic through different proxies based on destination domain.

Type: Array of [Proxy](#) objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: Yes

bypass

Optional configuration for domains that should bypass all proxies and connect directly to their destination, like the internet. Takes precedence over all proxy routing rules.

Type: [ProxyBypass](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ProxyCredentials

Union type representing different proxy authentication methods. Currently supports HTTP Basic Authentication (username and password).

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

basicAuth

HTTP Basic Authentication credentials (username and password) stored in AWS Secrets Manager.

Type: [BasicAuth](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RegistryRecordSummary

Summary information about a registry record.

Contents

createdAt

The date and time when the registry record was created.

Type: Timestamp

Required: Yes

descriptors

The descriptor configurations for this registry record.

Type: [Descriptors](#) object

Required: Yes

descriptorType

The type of descriptor associated with this registry record.

Type: String

Valid Values: MCP | A2A | CUSTOM | AGENT_SKILLS

Required: Yes

name

The name of the registry record.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_-\.\|]*`

Required: Yes

recordArn

The Amazon Resource Name (ARN) of the registry record.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `arn:aws(-[^\:]+)?:bedrock-agentcore:[a-z0-9-]+:[0-9]{12}:registry/[a-zA-Z0-9]{12,16}/record/[a-zA-Z0-9]{12}`

Required: Yes

recordId

The unique identifier of the registry record.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[a-zA-Z0-9]{12}`

Required: Yes

registryArn

The Amazon Resource Name (ARN) of the registry that this record belongs to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `arn:aws(-[^\:]+)?:bedrock-agentcore:[a-z0-9-]+:[0-9]{12}:registry/[a-zA-Z0-9]{12,16}`

Required: Yes

status

The current status of the registry record.

Type: String

Valid Values: DRAFT | PENDING_APPROVAL | APPROVED | REJECTED | DEPRECATED

Required: Yes

updatedAt

The date and time when the registry record was last updated.

Type: Timestamp

Required: Yes

version

The version of the registry record.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9.-]+

Required: Yes

description

A description of the registry record.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ResourceContent

Contains information about resource content.

Contents

type

The type of resource content.

Type: String

Valid Values: `text` | `blob`

Required: Yes

blob

The binary resource content.

Type: Base64-encoded binary data object

Required: No

contentType

The MIME type of the resource content.

Type: String

Required: No

text

The text resource content.

Type: String

Required: No

uri

The URI of the resource content.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ResourceLocation

The location of the browser extension.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

s3

The Amazon S3 location of the resource. Use this when the resource is stored in an Amazon S3 bucket.

Type: [S3Location](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ResponseChunk

A structure representing a response chunk that contains exactly one of the possible event types: `contentStart`, `contentDelta`, or `contentStop`.

Contents

`contentDelta`

An event containing incremental output (stdout or stderr) from the command execution. These are the middle chunks.

Type: [ContentDeltaEvent](#) object

Required: No

`contentStart`

An event indicating the start of content streaming from the command execution. This is the first chunk received.

Type: [ContentStartEvent](#) object

Required: No

`contentStop`

An event indicating the completion of the command execution, including the exit code and final status. This is the last chunk received.

Type: [ContentStopEvent](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

RightExpression

Right expression of the eventMetadatafilter.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

metadataValue

Value associated with the key in eventMetadata.

Type: [MetadataValue](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

S3Location

The Amazon S3 location configuration of a resource.

Contents

bucket

The name of the Amazon S3 bucket where the resource is stored.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `[a-z0-9][a-z0-9.-]*[a-z0-9]`

Required: Yes

prefix

The name of the Amazon S3 prefix/key where the resource is stored.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

versionId

The name of the Amazon S3 version ID where the resource is stored (Optional).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ScreenshotArguments

Arguments for a screenshot action.

Contents

format

The image format for the screenshot. Defaults to PNG.

Type: String

Valid Values: PNG

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ScreenshotResult

The result of a screenshot action.

Contents

status

The status of the action execution.

Type: String

Valid Values: SUCCESS | FAILED

Required: Yes

data

The base64-encoded image data. Present only when the action succeeded.

Type: Base64-encoded binary data object

Required: No

error

The error message. Present only when the action failed.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SearchCriteria

Contains search criteria for retrieving memory records.

Contents

searchQuery

The search query to use for finding relevant memory records.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10000.

Required: Yes

memoryStrategyId

The memory strategy identifier to filter memory records by.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_*]`

Required: No

metadataFilters

Filters to apply to metadata associated with a memory.

Type: Array of [MemoryMetadataFilterExpression](#) objects

Array Members: Fixed number of 1 item.

Required: No

topK

The maximum number of top-scoring memory records to return. This value is used for semantic search ranking.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SecretsManagerLocation

The AWS Secrets Manager location configuration.

Contents

secretArn

The ARN of the AWS Secrets Manager secret containing the certificate.

Type: String

Pattern: `arn:aws(-[a-z-]+)?:secretsmanager:[a-z0-9-]+:[0-9]{12}:secret:[a-zA-Z0-9/_+=.@-]+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ServerDefinition

The MCP server definition with a schema version and inline content. The `schemaVersion` identifies the version of the MCP server configuration schema.

Contents

`inlineContent`

The inline content of the server definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 409600.

Required: No

`schemaVersion`

The schema version of the MCP server configuration. The schema version identifies the format of the server definition content.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SessionFilter

Contains filter criteria for listing sessions.

Contents

eventFilter

The event filter condition to apply. Use this to filter sessions based on event presence.

Type: String

Valid Values: HAS_EVENTS

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SessionSummary

Contains summary information about a session in an AgentCore Memory resource.

Contents

actorId

The identifier of the actor associated with the session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_/]*(?::[a-zA-Z0-9-_/]+)*[a-zA-Z0-9-_/]*`

Required: Yes

createdAt

The timestamp when the session was created.

Type: Timestamp

Required: Yes

sessionId

The unique identifier of the session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-_]*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SkillDefinition

The structured skill definition with a schema version and inline content.

Contents

inlineContent

The inline content of the skill definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 409600.

Required: No

schemaVersion

The schema version of the skill definition. If you don't specify a version, the service detects it automatically.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SkillMdDefinition

The skill markdown definition for agent skills descriptors.

Contents

inlineContent

The inline markdown content of the skill definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 409600.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SpanContext

The contextual information that uniquely identifies a span within the distributed tracing system. Contains session, trace, and span identifiers used to correlate evaluation results with specific agent execution points.

Contents

sessionId

The unique identifier of the session containing this span. Sessions represent complete conversation flows and are detected using configurable `SessionTimeoutMinutes` (default 15 minutes).

Type: String

Required: Yes

spanId

The unique identifier of the specific span being referenced. Spans represent individual operations like tool calls, model invocations, or other discrete actions within the agent's execution.

Type: String

Required: No

traceId

The unique identifier of the trace containing this span. Traces represent individual request-response interactions within a session and group related spans together.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamUpdate

Contains information about an update to a stream.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

automationStreamUpdate

The update to an automation stream.

Type: [AutomationStreamUpdate](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TokenUsage

The token consumption statistics for language model operations during evaluation. Provides detailed breakdown of input, output, and total tokens used for cost tracking and performance monitoring.

Contents

inputTokens

The number of tokens consumed for input processing during the evaluation. Includes tokens from the evaluation prompt, agent traces, and any additional context provided to the evaluator model.

Type: Integer

Required: No

outputTokens

The number of tokens generated by the evaluator model in its response. Includes tokens for the score, explanation, and any additional output produced during the evaluation process.

Type: Integer

Required: No

totalTokens

The total number of tokens consumed during the evaluation, calculated as the sum of input and output tokens. Used for cost calculation and rate limiting within the service limits.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ToolArguments

The collection of arguments that specify the operation to perform and its parameters when invoking a tool in Amazon Bedrock AgentCore. Different tools require different arguments, and this structure provides a flexible way to pass the appropriate arguments to each tool type.

Contents

clearContext

Whether to clear the context for the tool.

Type: Boolean

Required: No

code

The code to execute in a code interpreter session. This is the source code in the specified programming language that will be executed by the code interpreter.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

command

The command to execute with the tool.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

content

The content for the tool operation.

Type: Array of [InputContentBlock](#) objects

Required: No

directoryPath

The directory path for the tool operation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

language

The programming language of the code to execute. This tells the code interpreter which language runtime to use for execution.

Type: String

Valid Values: python | javascript | typescript

Required: No

path

The path for the tool operation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

paths

The paths for the tool operation.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

runtime

The runtime environment to use for code execution. If not specified, defaults to deno for JavaScript and TypeScript.

Type: String

Valid Values: nodejs | deno | python

Required: No

taskId

The identifier of the task for the tool operation.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100000000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ToolResultStructuredContent

Contains structured content from a tool result.

Contents

executionTime

The execution time of the tool operation in milliseconds.

Type: Double

Required: No

exitCode

The exit code from the tool execution.

Type: Integer

Required: No

stderr

The standard error output from the tool execution.

Type: String

Required: No

stdout

The standard output from the tool execution.

Type: String

Required: No

taskId

The identifier of the task that produced the result.

Type: String

Required: No

taskStatus

The status of the task that produced the result.

Type: String

Valid Values: submitted | working | completed | canceled | failed

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ToolsDefinition

The MCP tools definition with a protocol version and inline content. The `protocolVersion` identifies the MCP protocol version that the tools conform to. This differs from `schemaVersion` in the server definition, which identifies the server configuration schema format.

Contents

`inlineContent`

The inline content of the tools definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 409600.

Required: No

`protocolVersion`

The MCP protocol version that the tools conform to. This differs from the `schemaVersion` field in the server definition, which identifies the server configuration schema format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UserIdentifier

The OAuth2.0 token or user ID that was used to generate the workload access token used for initiating the user authorization flow to retrieve OAuth2.0 tokens.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

userId

The ID of the user for whom you have retrieved a workload access token for

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

userToken

The OAuth2.0 token issued by the user's identity provider that was used to generate the workload access token

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Pattern: `[A-Za-z0-9-_=]+.[A-Za-z0-9-_=]+.[A-Za-z0-9-_=]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ValidationExceptionField

Stores information about a field passed inside a request that resulted in an exception.

Contents

message

A message describing why this field failed validation.

Type: String

Required: Yes

name

The name of the field.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ViewPort

The configuration that defines the dimensions of a browser viewport in a browser session. The viewport determines the visible area of web content and affects how web pages are rendered and displayed. Proper viewport configuration ensures that web content is displayed correctly for the agent's browsing tasks.

Contents

height

The height of the viewport in pixels. This value determines the vertical dimension of the visible area. Valid values range from 600 to 1080 pixels.

Type: Integer

Valid Range: Minimum value of 240. Maximum value of 2160.

Required: Yes

width

The width of the viewport in pixels. This value determines the horizontal dimension of the visible area. Valid values range from 800 to 1920 pixels.

Type: Integer

Valid Range: Minimum value of 320. Maximum value of 3840.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key/YYYYMMDD/region/service/aws4_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

UnrecognizedClientException

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

UnknownOperationException

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 404

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400