Agent Registry Data Plane API Reference

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Agent Registry Data Plane API Reference: Agent Registry Data Plane API Reference

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Welcome

AWS Agent Registry is a managed catalog for publishing and discovering resources such as Model Context Protocol (MCP) servers, agents, and agent skills. The Agent Registry API is its data-plane interface for discovering, searching, and retrieving the approved records published to a registry. The companion Agent Registry Control API provides registry and record management operations.

This document was last published on November 10, 2026.

Actions

The following actions are supported:

- BatchGetDiscoverableRegistryRecord
- ListDiscoverableRegistryRecords
- SearchDiscoverableRegistryRecords

BatchGetDiscoverableRegistryRecord

Retrieves multiple discoverable registry records by ID from a single registry. Records that cannot be retrieved are reported individually in the `errors` list rather than failing the entire request.

Request Syntax

```
POST /discoverable-records-batch HTTP/1.1
Content-type: application/json

{
   "entries": [
      {
         "recordIds": [ "string" ],
         "registryId": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

entries

The registry-scoped groups of record IDs to retrieve. Currently, you can specify exactly one entry.

Type: Array of RegistryRecordsEntry objects

Array Members: Fixed number of 1 item.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "errors": [
      {
         "errorCode": "string",
         "message": "string",
         "recordId": "string",
         "registryId": "string"
      }
   ],
   "registryRecords": [
      {
         "createdAt": "string",
         "customMetadata": JSON value,
         "description": "string",
         "descriptors": {
            "a2aAgentCard": {
               "data": "string",
               "dataSchemaVersion": "string",
               "source": {
                  "fromUrl": {
                     "url": "string"
                  }
               }
            },
            "agentSkillsDefinition": {
               "additionalData": {
                  "skillMd": {
                     "data": "string",
                     "dataSchemaVersion": "string",
                     "source": {
                        "fromUrl": {
                           "url": "string"
                        }
                     }
                  }
               },
               "data": "string",
               "dataSchemaVersion": "string"
            },
            "agui": {
               "source": {
                  "fromUrl": {
```

```
                    "url": "string"
                }
            }
        },
        "custom": {
            "data": "string"
        },
        "http": {
            "source": {
                "fromUrl": {
                    "url": "string"
                }
            }
        },
        "mcpServer": {
            "additionalData": {
                "tools": {
                    "data": "string",
                    "dataSchemaVersion": "string"
                }
            },
            "data": "string",
            "dataSchemaVersion": "string",
            "source": {
                "fromUrl": {
                    "url": "string"
                }
            }
        }
    },
    "displayName": "string",
    "name": "string",
    "recordArn": "string",
    "recordId": "string",
    "recordType": "string",
    "recordVersion": "string",
    "registryArn": "string",
    "status": "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.

errors

The per-record errors for records that could not be retrieved. This list is empty when all requested records were returned.

Type: Array of BatchGetDiscoverableRegistryRecordError objects

registryRecords

The records that were successfully retrieved. Each record correlates to the request by its `recordId`.

Type: Array of RegistryRecordSummary objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

The caller is not authorized to perform the requested action.

HTTP Status Code: 403

InternalServerException

The request failed due to an unexpected internal error; the caller may retry.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling; the caller may retry after a delay.

HTTP Status Code: 429

UnauthorizedException

The request could not be authenticated.

HTTP Status Code: 401

ValidationException

The request failed validation of one or more input fields.

fieldList

The list of input fields that failed validation.

reason

The reason the request failed validation.

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 (Boto3)
- AWS SDK for Ruby V3

ListDiscoverableRegistryRecords

Lists the discoverable registry records in a registry. You can optionally filter and paginate the results.

Request Syntax

```
POST /registries/registryId/discoverable-records-list HTTP/1.1
Content-type: application/json

{
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

registryId

The identifier of the registry whose discoverable records are listed. You can provide either the full Amazon Resource Name (ARN) or the registry ID.

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

Pattern: `(arn:aws(-[^:]+)?:agent-registry:[a-z0-9-]+:[0-9]{12}:registry/)?[a-zA-Z0-9]{12,16}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

filters

The filters to apply to the discoverable registry record list.

Type: Array of RegistryRecordFilter objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

maxResults

The maximum number of records to return in a single page. Valid values are 1 through 100.

Type: Integer

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

Required: No

nextToken

The pagination token returned by a previous request. Use this value to retrieve the next page of results.

Type: String

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

Required: No

Response Syntax

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

{
   "nextToken": "string",
   "registryRecords": [
      {
         "createdAt": "string",
         "description": "string",
         "descriptorTypes": [ "string" ],
         "displayName": "string",
```

```
            "name": "string",
            "recordArn": "string",
            "recordId": "string",
            "recordType": "string",
            "recordVersion": "string",
            "registryArn": "string",
            "status": "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.

nextToken

The pagination token to pass to a subsequent request to retrieve the next page of results. This field is absent when there are no more results.

Type: String

registryRecords

The page of discoverable registry record summaries.

Type: Array of DiscoverableRegistryRecordSummary objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

The caller is not authorized to perform the requested action.

HTTP Status Code: 403

InternalServerException

The request failed due to an unexpected internal error; the caller may retry.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling; the caller may retry after a delay.

HTTP Status Code: 429

UnauthorizedException

The request could not be authenticated.

HTTP Status Code: 401

ValidationException

The request failed validation of one or more input fields.

fieldList

The list of input fields that failed validation.

reason

The reason the request failed validation.

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 (Boto3)
- AWS SDK for Ruby V3

SearchDiscoverableRegistryRecords

Searches the discoverable registry records in a registry using a natural language query. Returns metadata for the matching records ordered by relevance.

Request Syntax

```
POST /discoverable-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

An optional structured JSON metadata filter that narrows the search results. Supports the field-level operators $eq, $ne, and $in, and the logical operators $and and $or on filterable fields.

Specifies additional filtering on custom metadata fields using the `customMetadata.{key}` prefix. For example, to filter by a custom metadata field: `{"customMetadata.environment": {"$eq": "production"}}`. For a Boolean field, you can also use a native JSON boolean value, for example: `{"customMetadata.requiresApproval": {"$eq": true}}`.

Type: JSON value

Required: No

maxResults

The maximum number of results to return. 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 registry identifiers to search within. Currently, you must specify exactly one registry identifier. You can provide either the full AWS Resource Name (ARN) or the 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(-[^:]+)?:agent-registry:[a-z0-9-]+:[0-9]{12}:registry/)?[a-zA-Z0-9]{12,16}`

Required: Yes

searchQuery

The natural language query to search for matching registry records.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

Response Syntax

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

{
   "registryRecords": [
      {
```

```
      "createdAt": "string",
      "customMetadata": JSON value,
      "description": "string",
      "descriptors": {
         "a2aAgentCard": {
            "data": "string",
            "dataSchemaVersion": "string",
            "source": {
               "fromUrl": {
                  "url": "string"
               }
            }
         },
         "agentSkillsDefinition": {
            "additionalData": {
               "skillMd": {
                  "data": "string",
                  "dataSchemaVersion": "string",
                  "source": {
                     "fromUrl": {
                        "url": "string"
                     }
                  }
               }
            },
            "data": "string",
            "dataSchemaVersion": "string"
         },
         "agui": {
            "source": {
               "fromUrl": {
                  "url": "string"
               }
            }
         },
         "custom": {
            "data": "string"
         },
         "http": {
            "source": {
               "fromUrl": {
                  "url": "string"
               }
            }
         }
```

```
            },
            "mcpServer": {
               "additionalData": {
                  "tools": {
                     "data": "string",
                     "dataSchemaVersion": "string"
                  }
               },
               "data": "string",
               "dataSchemaVersion": "string",
               "source": {
                  "fromUrl": {
                     "url": "string"
                  }
               }
            }
         },
         "displayName": "string",
         "name": "string",
         "recordArn": "string",
         "recordId": "string",
         "recordType": "string",
         "recordVersion": "string",
         "registryArn": "string",
         "status": "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.

registryRecords

The 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 Error Types.

AccessDeniedException

The caller is not authorized to perform the requested action.

HTTP Status Code: 403

InternalServerException

The request failed due to an unexpected internal error; the caller may retry.

HTTP Status Code: 500

ResourceNotFoundException

The requested resource was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling; the caller may retry after a delay.

HTTP Status Code: 429

UnauthorizedException

The request could not be authenticated.

HTTP Status Code: 401

ValidationException

The request failed validation of one or more input fields.

fieldList

The list of input fields that failed validation.

reason

The reason the request failed validation.

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 (Boto3)
- AWS SDK for Ruby V3

Data Types

The Agent Registry 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:

- A2aAgentCardDescriptor
- AgentSkillsAdditionalData
- AgentSkillsDefinitionDescriptor
- AgentSkillsMdDescriptor
- AgUiDescriptor
- BatchGetDiscoverableRegistryRecordError
- CustomDescriptor
- Descriptors
- DescriptorSource
- DescriptorSourceFromUrl
- DiscoverableRegistryRecordSummary
- HttpDescriptor
- McpServerAdditionalData
- McpServerDescriptor
- McpToolsDescriptor
- RegistryRecordFilter
- RegistryRecordsEntry
- RegistryRecordSummary
- ValidationExceptionField

A2aAgentCardDescriptor

Descriptor that defines the content of an A2A (Agent-to-Agent) agent card registry record. The content is validated against the A2A protocol schema.

Contents

data

The A2A agent card content, serialized as descriptor payload data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 102400.

Required: No

dataSchemaVersion

The schema version of the descriptor payload.

Type: String

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

Required: No

source

The source location from which the A2A (Agent-to-Agent) agent card descriptor content was retrieved.

Type: DescriptorSource 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

AgentSkillsAdditionalData

Additional data for an agent skills definition descriptor.

Contents

skillMd

The agent skills markdown descriptor associated with the agent skills definition.

Type: AgentSkillsMdDescriptor 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

AgentSkillsDefinitionDescriptor

Descriptor that defines an agent skills registry record and its associated content.

Contents

additionalData

Additional data for the agent skills definition, such as the skills markdown descriptor.

Type: AgentSkillsAdditionalData object

Required: No

data

The agent skills definition content, serialized as descriptor payload data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 102400.

Required: No

dataSchemaVersion

The schema version of the descriptor payload.

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

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AgentSkillsMdDescriptor

Markdown-format descriptor containing an agent skills document.

Contents

data

The agent skills markdown content, serialized as descriptor payload data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 102400.

Required: No

dataSchemaVersion

The schema version of the descriptor payload.

Type: String

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

Required: No

source

The source location from which the agent skills markdown content was retrieved.

Type: DescriptorSource 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

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AgUiDescriptor

A descriptor for a registry record that exposes an AG-UI protocol endpoint. This descriptor is source-only: it identifies where the endpoint is located and carries no descriptor payload data or schema version.

Contents

source

The source location of the AG-UI protocol endpoint.

Type: DescriptorSource 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

BatchGetDiscoverableRegistryRecordError

Describes why a requested record could not be retrieved.

Contents

errorCode

The machine-readable reason that the record could not be retrieved.

Type: String

Valid Values: `RESOURCE_NOT_FOUND | ACCESS_DENIED | INTERNAL_ERROR`

Required: Yes

recordId

The identifier of the record that could not be retrieved, echoed from the request in the same format that you supplied (ARN or record ID).

Type: String

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

Pattern: `(arn:aws(-[^:]+)?:agent-registry:[a-z0-9-]+:[0-9]{12}:registry/[a-zA-Z0-9]{12,16}/record/)?[a-zA-Z0-9]{12}`

Required: Yes

registryId

The identifier of the registry the record was requested from, echoed from the request.

Type: String

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

Pattern: `(arn:aws(-[^:]+)?:agent-registry:[a-z0-9-]+:[0-9]{12}:registry/)?[a-zA-Z0-9]{12,16}`

Required: Yes

message

An optional human-readable detail about the error. Do not parse this value programmatically.

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

CustomDescriptor

Custom descriptor for user-defined content

Contents

data

The custom descriptor content, serialized as descriptor payload data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 102400.

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

The protocol-specific descriptors that describe how to connect to and use the registry record.

Contents

a2aAgentCard

The A2A agent card descriptor, populated when the record type is AGENT.

Type: A2aAgentCardDescriptor object

Required: No

agentSkillsDefinition

The agent skills definition descriptor, populated when the record type is SKILL.

Type: AgentSkillsDefinitionDescriptor object

Required: No

agui

The AG-UI descriptor, populated when the record exposes an AG-UI protocol endpoint.

Type: AgUiDescriptor object

Required: No

custom

The custom descriptor, populated when the record type is CUSTOM.

Type: CustomDescriptor object

Required: No

http

The HTTP descriptor, populated when the record exposes an HTTP endpoint.

Type: HttpDescriptor object

Required: No

mcpServer

The MCP server descriptor, populated when the record type is MCP.

Type: McpServerDescriptor 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

DescriptorSource

The source location from which a descriptor's content was retrieved.

Contents

fromUrl

The URL-based descriptor source, populated when descriptor content is synchronized from a URL.

Type: DescriptorSourceFromUrl 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

DescriptorSourceFromUrl

A URL-based descriptor source that identifies where descriptor content is retrieved from.

Contents

url

The URL from which the descriptor content is retrieved.

Type: String

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

Pattern: `https://.*`

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

DiscoverableRegistryRecordSummary

Summary information about a discoverable registry record returned by `ListDiscoverableRegistryRecords`. This summary does not include descriptors.

Contents

createdAt

The timestamp when the registry record was created.

Type: Timestamp

Required: Yes

name

The name of the registry record. Names are unique within a registry.

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(-[^:]+)?:agent-registry:[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

recordType

The type of the registry record. `MCP` is a Model Context Protocol server record, `AGENT` is an Agent-to-Agent (A2A) agent card record, `SKILL` is an agent skills definition record, and `CUSTOM` is a record with a custom descriptor.

Type: String

Valid Values: `MCP | AGENT | CUSTOM | SKILL | GATEWAY`

Required: Yes

recordVersion

The version identifier of the registry record.

Type: String

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

Pattern: `[a-zA-Z0-9.-]+`

Required: Yes

registryArn

The Amazon Resource Name (ARN) of the parent registry that owns the record.

Type: String

Length Constraints: Minimum length of 46. Maximum length of 2048.

Pattern: `arn:aws(-[^:]+)?:agent-registry:[a-z0-9-]+:[0-9]{12}:registry/[a-zA-Z0-9]{12,16}`

Required: Yes

status

The lifecycle status of the registry record. A record is `DRAFT` before it is submitted, `PENDING_APPROVAL` while awaiting curator review, and `APPROVED` once it is approved and discoverable. `REJECTED` and `DEPRECATED` records are not discoverable. The `CREATING`, `UPDATING`, `CREATE_FAILED`, and `UPDATE_FAILED` values reflect the state of an in-progress or failed asynchronous change.

Type: String

Valid Values: `DRAFT | PENDING_APPROVAL | APPROVED | REJECTED | DEPRECATED | CREATING | UPDATING | CREATE_FAILED | UPDATE_FAILED`

Required: Yes

updatedAt

The timestamp when the registry record was last updated.

Type: Timestamp

Required: Yes

description

A human-readable description of the registry record. Use this field to explain the record's purpose or content to consumers discovering it in the registry.

Type: String

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

Required: No

descriptorTypes

The descriptor types that are present on this registry record. Each value corresponds to a descriptor entry key on the approved record.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

displayName

The human-readable display name of the registry record.

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

HttpDescriptor

A descriptor for a registry record that exposes an HTTP endpoint. This descriptor is source-only: it identifies where the endpoint is located and carries no descriptor payload data or schema version.

Contents

source

The source location of the HTTP endpoint.

Type: DescriptorSource 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

McpServerAdditionalData

Additional data for an MCP server descriptor

Contents

tools

The MCP tools descriptor that defines the tools exposed by the MCP server.

Type: McpToolsDescriptor 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

McpServerDescriptor

Descriptor that defines the content of an MCP (Model Context Protocol) server registry record, including the server definition and its tool definitions. The content is validated against the MCP protocol schema.

Contents

additionalData

Additional data associated with the MCP server descriptor, such as tool definitions.

Type: McpServerAdditionalData object

Required: No

data

The MCP server descriptor content, serialized as descriptor payload data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 102400.

Required: No

dataSchemaVersion

The schema version of the descriptor payload.

Type: String

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

Required: No

source

The source location from which the MCP (Model Context Protocol) server descriptor content was retrieved.

Type: DescriptorSource 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

McpToolsDescriptor

MCP tools descriptor containing tool definitions

Contents

data

The MCP tools descriptor content, serialized as descriptor payload data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 102400.

Required: No

dataSchemaVersion

The schema version of the descriptor payload.

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

RegistryRecordFilter

A single filter applied to a `ListDiscoverableRegistryRecords` request.

Contents

name

The attribute to filter on.

Type: String

Valid Values: `recordType | descriptorType`

Required: Yes

values

The values to match for the attribute.

Type: Array of strings

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

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

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

RegistryRecordsEntry

Binds one registry to the record IDs requested from it.

Contents

recordIds

The record IDs to retrieve from the registry. You can specify 1 through 100 record IDs.

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 2048.

Pattern: `(arn:aws(-[^:]+)?:agent-registry:[a-z0-9-]+:[0-9]{12}:registry/[a-zA-Z0-9]{12,16}/record/)?[a-zA-Z0-9]{12}`

Required: Yes

registryId

The identifier of the registry to retrieve the records from. You can provide either the full Amazon Resource Name (ARN) or the registry ID.

Type: String

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

Pattern: `(arn:aws(-[^:]+)?:agent-registry:[a-z0-9-]+:[0-9]{12}:registry/)?[a-zA-Z0-9]{12,16}`

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

RegistryRecordSummary

Summary information about a registry record, including its descriptors.

Contents

createdAt

The timestamp when the registry record was created.

Type: Timestamp

Required: Yes

descriptors

The protocol-specific descriptors that describe how to connect to and use the record.

Type: Descriptors object

Required: Yes

name

The name of the registry record. Names are unique within a registry.

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(-[^:]+)?:agent-registry:[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

recordType

The type of the registry record. `MCP` is a Model Context Protocol server record, `AGENT` is an Agent-to-Agent (A2A) agent card record, `SKILL` is an agent skills definition record, and `CUSTOM` is a record with a custom descriptor.

Type: String

Valid Values: `MCP | AGENT | CUSTOM | SKILL | GATEWAY`

Required: Yes

recordVersion

The version identifier of the registry record.

Type: String

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

Pattern: `[a-zA-Z0-9.-]+`

Required: Yes

registryArn

The Amazon Resource Name (ARN) of the parent registry that owns the record.

Type: String

Length Constraints: Minimum length of 46. Maximum length of 2048.

Pattern: `arn:aws(-[^:]+)?:agent-registry:[a-z0-9-]+:[0-9]{12}:registry/[a-zA-Z0-9]{12,16}`

Required: Yes

status

The lifecycle status of the registry record. A record is `DRAFT` before it is submitted, `PENDING_APPROVAL` while awaiting curator review, and `APPROVED` once it is approved and discoverable. `REJECTED` and `DEPRECATED` records are not discoverable. The `CREATING`, `UPDATING`, `CREATE_FAILED`, and `UPDATE_FAILED` values reflect the state of an in-progress or failed asynchronous change.

Type: String

Valid Values: `DRAFT | PENDING_APPROVAL | APPROVED | REJECTED | DEPRECATED | CREATING | UPDATING | CREATE_FAILED | UPDATE_FAILED`

Required: Yes

updatedAt

The timestamp when the registry record was last updated.

Type: Timestamp

Required: Yes

customMetadata

The custom metadata attached to this registry record. Values are strings (maximum 128 characters) or booleans. This field is only present if the registry has a custom metadata schema configured.

Type: JSON value

Required: No

description

A human-readable description of the registry record. Use this field to explain the record's purpose or content to consumers discovering it in the registry.

Type: String

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

Required: No

displayName

The human-readable display name of the registry record.

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

ValidationExceptionField

Describes a single input field that failed validation.

Contents

message

A description of why the field failed validation.

Type: String

Required: Yes

name

The name of the field that failed validation.

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

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*.

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

Agent Registry Data Plane API Reference

Required: Conditional

Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

NotAuthorized

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

OptInRequired

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

RequestAbortedException

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

RequestEntityTooLargeException

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

RequestTimeoutException

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

UnknownOperationException

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

UnrecognizedClientException

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

ValidationError

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400