NetApp

Cloud

ONTAP 9.14.1 REST API reference

NetApp
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The cloud targets GET API retrieves all cloud targets defined in the cluster.

Creating cloud targets

The cluster administrator tells ONTAP how to connect to a cloud target. The following pre-requisites must be met before creating an object store configuration in ONTAP. A valid data bucket or container must be created with the object store provider. This assumes that the user has valid account credentials with the object store provider to access the data bucket. The ONTAP node must be able to connect to the object store.

This includes:

- Fast, reliable connectivity to the object store.
- An inter-cluster LIF (logical interface) must be configured on the cluster. ONTAP verifies connectivity prior to saving this configuration information.
- If SSL/TLS authentication is required, then valid certificates must be installed.
- FabricPool license (required for all object stores except SGWS).

Deleting cloud targets

If a cloud target is used by an aggregate, then the aggregate must be deleted before the cloud target can be deleted.

Retrieve cloud targets in the cluster

GET `/cloud/targets`

Introduced In: 9.6

Retrieves the collection of cloud targets in the cluster.

Related ONTAP commands

- `storage aggregate object-store config show`

Parameters

Name	Type	In	Required	Description
certificate_validation _enabled	boolean	query	False	Filter by certificate_validation _enabled
cap_url	string	query	False	Filter by cap_url
azure_account	string	query	False	Filter by azure_account
snapmirror_use	string	query	False	Filter by snapmirror_use
access_key	string	query	False	Filter by access_key
scope	string	query	False	Filter by scope • Introduced in: 9.12
ssl_enabled	boolean	query	False	Filter by ssl_enabled
port	integer	query	False	Filter by port
server_side_encrypti on	string	query	False	Filter by server_side_encrypti on • Introduced in: 9.7
provider_type	string	query	False	Filter by provider_type
name	string	query	False	Filter by name
authentication_type	string	query	False	Filter by authentication_type
url_style	string	query	False	Filter by url_style • Introduced in: 9.8
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name

Name	Type	In	Required	Description
ipspace.uuid	string	query	False	Filter by ipspace.uuid
ipspace.name	string	query	False	Filter by ipspace.name
server	string	query	False	Filter by server
cluster.name	string	query	False	Filter by cluster.name • Introduced in: 9.7
cluster.uuid	string	query	False	Filter by cluster.uuid • Introduced in: 9.7
uuid	string	query	False	Filter by uuid
container	string	query	False	Filter by container
use_http_proxy	boolean	query	False	Filter by use_http_proxy • Introduced in: 9.7
owner	string	query	False	Filter by owner
used	integer	query	False	Filter by used
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
num_records	integer	Number of records
records	array[cloud_target]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "access_key": "string",
      "authentication_type": "string",
      "azure_account": "string",
      "azure_private_key": "string",
      "azure_sas_token": "string",
      "cap_url":
"https://123.45.67.89:1234/CAP/api/v1/credentials?agency=myagency&mission=mymission&role=myrole",
      "cluster": {
        "name": "string",
        "uuid": "string"
      },
      "container": "bucket1",
      "ipspace": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "exchange",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "name": "string",
      "owner": "string",
      "provider_type": "string",
      "scope": "string",
      "secret_password": "string",
```

```
        "server": "string",
        "server_side_encryption": "string",
        "snapmirror_use": "string",
        "svm": {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "svm1",
          "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
        },
        "url_style": "string",
        "used": 0,
        "uuid": "string"
      }
    ]
  }
```

Error

```
Status: Default, Error
```

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

cluster

Name	Type	Description
name	string	The name of the cluster that owns the cloud target. For POST, this accepts the name of the peer cluster only if the cluster is in switchover state.
uuid	string	The UUID of the cluster that owns the cloud target. For POST, this accepts the UUID of the peer cluster only if the cluster is in switchover state.

ipspace

IPspace to use in order to reach the cloud target.

Name	Type	Description
_links	_links	
name	string	IPspace name
uuid	string	IPspace UUID

svm

This field is only applicable when used for SnapMirror and FabricLink. For POST and PATCH, SVM

information is required for SnapMirror and FabricLink targets and not allowed for FabricPool targets.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

cloud_target

Name	Type	Description
_links	_links	
access_key	string	Access key ID for AWS_S3 and other S3 compatible provider types.
authentication_type	string	Authentication used to access the target. SnapMirror does not yet support CAP. Required in POST.
azure_account	string	Azure account
azure_private_key	string	Azure access key
azure_sas_token	string	Shared access signature token to access Azure containers and blobs.
cap_url	string	This parameter is available only when auth-type is CAP. It specifies a full URL of the request to a CAP server for retrieving temporary credentials (access-key, secret-pasword, and session token) for accessing the object store.

Name	Type	Description
certificate_validation_enabled	boolean	Is SSL/TLS certificate validation enabled? The default value is true. This can only be modified for SGWS, IBM_COS, and ONTAP_S3 provider types. • Introduced in: 9.6 • x-nullable: true
cluster	cluster	
container	string	Data bucket/container name. For FabricLink, a wildcard character "*" can also be specified to indicate that all the buckets in an SVM can use the same target information. However, for containers other than ONTAP, an exact name should be specified. • example: bucket1 • Introduced in: 9.6 • readCreate: 1 • x-nullable: true
ipspace	ipspace	IPspace to use in order to reach the cloud target.
name	string	Cloud target name
owner	string	Owner of the target. Allowed values are FabricPool, SnapMirror or S3_SnapMirror. A target can be used by only one feature.
port	integer	Port number of the object store that ONTAP uses when establishing a connection. Required in POST. • Introduced in: 9.6 • x-nullable: true

Name	Type	Description
provider_type	string	Type of cloud provider. Allowed values depend on owner type. For FabricPool, AliCloud, AWS_S3, Azure_Cloud, GoogleCloud, IBM_COS, SGWS, and ONTAP_S3 are allowed. For SnapMirror, the valid values are AWS_S3 or SGWS. For FabricLink, AWS_S3, SGWS, S3_Compatible, S3EMU, LOOPBACK and ONTAP_S3 are allowed. • Introduced in: 9.6 • readCreate: 1 • x-nullable: true
scope	string	If the cloud target is owned by a data SVM, then the scope is set to svm. Otherwise it will be set to cluster.
secret_password	string	Secret access key for AWS_S3 and other S3 compatible provider types.
server	string	Fully qualified domain name of the object store server. Required on POST. For Amazon S3, server name must be an AWS regional endpoint in the format s3.amazonaws.com or s3-<region>.amazonaws.com, for example, s3-us-west-2.amazonaws.com. The region of the server and the bucket must match. For Azure, if the server is a "blob.core.windows.net" or a "blob.core.usgovcloudapi.net", then a value of azure-account followed by a period is added in front of the server.</region>

Name	Type	Description
server_side_encryption	string	Encryption of data at rest by the object store server for AWS_S3 and other S3 compatible provider types. This is an advanced property. In most cases it is best not to change default value of "sse_s3" for object store servers which support SSE-S3 encryption. The encryption is in addition to any encryption done by ONTAP at a volume or at an aggregate level. Note that changing this option does not change encryption of data which already exist in the object store. • enum: ["none", "sse_s3"] • Introduced in: 9.7 • x-nullable: true
snapmirror_use	string	Use of the cloud target by SnapMirror.
ssl_enabled	boolean	SSL/HTTPS enabled or not
svm	svm	This field is only applicable when used for SnapMirror and FabricLink. For POST and PATCH, SVM information is required for SnapMirror and FabricLink targets and not allowed for FabricPool targets.
url_style	string	URL style used to access S3 bucket.
use_http_proxy	boolean	Use HTTP proxy when connecting to the object store.
used	integer	The amount of cloud space used by all the aggregates attached to the target, in bytes. This field is only populated for FabricPool targets. The value is recalculated once every 5 minutes.
uuid	string	Cloud target UUID

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Create a cloud target

POST `/cloud/targets`

Introduced In: 9.6

Creates a cloud target.

Required properties

- `name` - Name for the cloud target.

- `owner` - Owner of the target: *fabricpool*, *snapmirror*.

- `provider_type` - Type of cloud provider: *AWS_S3*, *Azure_Cloud*, *SGWS*, *IBM_COS*, *AliCloud*, *GoogleCloud*, *ONTAP_S3*.

- `server` - Fully qualified domain name of the object store server. Required when `provider_type` is one of the following: *SGWS*, *IBM_COS*, *AliCloud*.

- `container` - Data bucket/container name.

- `access_key` - Access key ID if `provider_type` is not *Azure_Cloud* and `authentication_type` is *key*.

- `secret_password` - Secret access key if `provider_type` is not *Azure_Cloud* and `authentication_type` is *key*.

- `azure_account` - Azure account if `provider_type` is *Azure_Cloud*.

- `azure_private_key` - Azure access key if `provider_type` is *Azure_Cloud*.

- `cap_url` - Full URL of the request to a CAP server for retrieving temporary credentials if `authentication_type` is *cap*.

- `snapmirror_use` - Use of the cloud target if `owner` is *snapmirror*: data, metadata.

Recommended optional properties

- `authentication_type` - Authentication used to access the target: *key*, *cap*, *ec2_iam*, *gcp_sa*, *azure_msi*.

- `ssl_enabled` - SSL/HTTPS enabled or disabled.

- `port` - Port number of the object store that ONTAP uses when establishing a connection.

- `ipspace` - IPspace to use in order to reach the cloud target.

- `use_http_proxy` - Use the HTTP proxy when connecting to the object store server.

- `azure_sas_token` - Shared access signature to grant limited access to Azure storage account resources.

- `svm.name` or `svm.uuid` - Name or UUID of SVM if `owner` is *snapmirror*.

Default property values

- `authentication_type`
- *ec2_iam* - if running in Cloud Volumes ONTAP in AWS
- *gcp_sa* - if running in Cloud Volumes ONTAP in GCP
- *azure_msi* - if running in Cloud Volumes ONTAP in Azure
- *key* - in all other cases.
- `server`
- *s3.amazonaws.com* - if `provider_type` is *AWS_S3*
- *blob.core.windows.net* - if `provider_type` is *Azure_Cloud*
- *storage.googleapis.com* - if `provider_type` is *GoogleCloud*
- `ssl_enabled` - *true*
- `port`
- *443* if `ssl_enabled` is *true*
- *80* if `ssl_enabled` is *false* and `provider_type` is not *SGWS*
- *8084* if `ssl_enabled` is *false* and `provider_type` is *SGWS*
- `ipspace` - *Default*
- `certificate_validation_enabled` - *true*
- `ignore_warnings` - *false*
- `check_only` - *false*
- `use_http_proxy` - *false*
- `server_side_encryption`

- *none* - if `provider_type` is *ONTAP_S3*

- *sse_s3* - if `provider_type` is not *ONTAP_S3*

- `url_style`

- *path_style* - if `provider_type` is neither *AWS_S3* nor *AliCloud*

- *virtual_hosted_style* - if `provider_type` is either *AWS_S3 or _AliCloud_*

Related ONTAP commands

- `storage aggregate object-store config create`

Parameters

Name	Type	In	Required	Description
ignore_warnings	boolean	query	False	Specifies whether or not warning codes should be ignored.
check_only	boolean	query	False	Do not create the target configuration, only check that the POST request succeeds.

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. • Default value: 1 • Max value: 120 • Min value: 0
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
_links	_links	
access_key	string	Access key ID for AWS_S3 and other S3 compatible provider types.

Name	Type	Description
authentication_type	string	Authentication used to access the target. SnapMirror does not yet support CAP. Required in POST.
azure_account	string	Azure account
azure_private_key	string	Azure access key
azure_sas_token	string	Shared access signature token to access Azure containers and blobs.
cap_url	string	This parameter is available only when auth-type is CAP. It specifies a full URL of the request to a CAP server for retrieving temporary credentials (access-key, secret-pasword, and session token) for accessing the object store.
certificate_validation_enabled	boolean	Is SSL/TLS certificate validation enabled? The default value is true. This can only be modified for SGWS, IBM_COS, and ONTAP_S3 provider types. • Introduced in: 9.6 • x-nullable: true
cluster	cluster	
container	string	Data bucket/container name. For FabricLink, a wildcard character "*" can also be specified to indicate that all the buckets in an SVM can use the same target information. However, for containers other than ONTAP, an exact name should be specified. • example: bucket1 • Introduced in: 9.6 • readCreate: 1 • x-nullable: true
ipspace	ipspace	IPspace to use in order to reach the cloud target.

Name	Type	Description
name	string	Cloud target name
owner	string	Owner of the target. Allowed values are FabricPool, SnapMirror or S3_SnapMirror. A target can be used by only one feature.
port	integer	Port number of the object store that ONTAP uses when establishing a connection. Required in POST. • Introduced in: 9.6 • x-nullable: true
provider_type	string	Type of cloud provider. Allowed values depend on owner type. For FabricPool, AliCloud, AWS_S3, Azure_Cloud, GoogleCloud, IBM_COS, SGWS, and ONTAP_S3 are allowed. For SnapMirror, the valid values are AWS_S3 or SGWS. For FabricLink, AWS_S3, SGWS, S3_Compatible, S3EMU, LOOPBACK and ONTAP_S3 are allowed. • Introduced in: 9.6 • readCreate: 1 • x-nullable: true
scope	string	If the cloud target is owned by a data SVM, then the scope is set to svm. Otherwise it will be set to cluster.
secret_password	string	Secret access key for AWS_S3 and other S3 compatible provider types.

Name	Type	Description
server	string	Fully qualified domain name of the object store server. Required on POST. For Amazon S3, server name must be an AWS regional endpoint in the format s3.amazonaws.com or s3-<region>.amazonaws.com, for example, s3-us-west-2.amazonaws.com. The region of the server and the bucket must match. For Azure, if the server is a "blob.core.windows.net" or a "blob.core.usgovcloudapi.net", then a value of azure-account followed by a period is added in front of the server.</region>
server_side_encryption	string	Encryption of data at rest by the object store server for AWS_S3 and other S3 compatible provider types. This is an advanced property. In most cases it is best not to change default value of "sse_s3" for object store servers which support SSE-S3 encryption. The encryption is in addition to any encryption done by ONTAP at a volume or at an aggregate level. Note that changing this option does not change encryption of data which already exist in the object store. • enum: ["none", "sse_s3"] • Introduced in: 9.7 • x-nullable: true
snapmirror_use	string	Use of the cloud target by SnapMirror.
ssl_enabled	boolean	SSL/HTTPS enabled or not
svm	svm	This field is only applicable when used for SnapMirror and FabricLink. For POST and PATCH, SVM information is required for SnapMirror and FabricLink targets and not allowed for FabricPool targets.

Name	Type	Description
url_style	string	URL style used to access S3 bucket.
use_http_proxy	boolean	Use HTTP proxy when connecting to the object store.
used	integer	The amount of cloud space used by all the aggregates attached to the target, in bytes. This field is only populated for FabricPool targets. The value is recalculated once every 5 minutes.
uuid	string	Cloud target UUID

Example request

```json
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "access_key": "string",
  "authentication_type": "string",
  "azure_account": "string",
  "azure_private_key": "string",
  "azure_sas_token": "string",
  "cap_url":
"https://123.45.67.89:1234/CAP/api/v1/credentials?agency=myagency&mission=mymission&role=myrole",
  "cluster": {
    "name": "string",
    "uuid": "string"
  },
  "container": "bucket1",
  "ipspace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "exchange",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "name": "string",
  "owner": "string",
  "provider_type": "string",
  "scope": "string",
  "secret_password": "string",
  "server": "string",
  "server_side_encryption": "string",
  "snapmirror_use": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
```

```
    },
    "url_style": "string",
    "used": 0,
    "uuid": "string"
  }
```

Response

```
Status: 202, Accepted
```

Name	Type	Description
job	job_link	

Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Response

```
Status: 201, Created
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
786436	VLDB is not running.
786908	Capability check failed.
787015	"encryption-key-id" is not expected when encrypt is false.
787016	An object store configuration with the same combination of server and container name already exists.
787020	Failed to check whether the FabricPool capability exists.
787021	The FabricPool capability is not enabled.
787030	Object store configuration creation is not supported in this cluster.
787036	Server name is invalid. A valid server name must be a fully qualified domain name.
787037	Cannot verify availability of the object store.
787038	Object store provider type requires a FabricPool license.
787039	Failed to retrieve FabricPool capacity license information.
787044	Cannot create object store configuration as the number of object stores in the cluster has reached maximum allowed limit.
787054	An object store configuration with the same combination of server, azure account and container name already exists.
787064	Object store server provider type does not match object store provider type. Use the provider type that matches the server.
787065	Certificate validation must be enabled for the object store provider.
787066	Certificate validation cannot be specified when the "-is-ssl-enabled" parameter is false.
787068	Disabling certificate validation requires an effective cluster version of ONTAP 9.4.0 or later.
787071	Object store configuration creation requires an effective cluster version of ONTAP 9.4.0 or later.
787082	Creating an object store configuration requires an effective cluster version of ONTAP 9.5.0 or later.

Error Code	Description
787089	The object store provider supports the virtual hosted-style, and the specified "-server" contains the container name. The container specified in the "-server" parameter must be the same as the name of the container specified in the "-container" parameter.
787133	Could not retrieve temporary credentials from the CAP server.
787134	Could not retrieve temporary credentials from the CAP server due to an unexpected response.
787136	Specifying "CAP" as the "-auth-type" requires an effective cluster version of ONTAP 9.5.0 or later.
787148	The clock on node is behind by more than the maximum of 5 minutes.
787149	The clock on node is ahead by more than the maximum of 5 minutes.
787158	An object store configuration with the same combination of server and container name already exists.
787159	An object store configuration with the same name already exists.
787179	One or more clusters in this MetroCluster configuration do not have an effective cluster version of ONTAP 9.7.0 or later.
787184	Using HTTP proxies with FabricPool requires an effective cluster version of ONTAP 9.7.0 or later.
787185	There is no HTTP proxy for IPspace. Refer to the "vserver http-proxy" man page for details.
787188	Object store configuration belongs to another cluster and cannot be modified from the local cluster, unless the cluster is in switchover mode.
787189	Object store configuration name must not have the "-mc" suffix when the configuration is created for a local cluster. To create an object store configuration which belongs to another cluster, the cluster must be in switchover mode and "-cluster" must be specified.
787209	Object store is not accessible from the partner cluster in a MetroCluster configuration.
787216	Cannot perform object store configuration operations on a cluster that is waiting for switchback.
787222	Object store connectivity check failed on partner cluster in MetroCluster configuration. Wait a few minutes, and try the operation again.

Error Code	Description
787223	Specifying "GCP_SA" as the "-auth-type" requires an effective cluster version of ONTAP 9.7.0 or later.
787227	Specifying "Azure_MSI" as the "-auth-type" requires an effective cluster version of ONTAP 9.7 or later.
787228	SSL is required for this configuration.
787229	Cannot perform operation as URL style is not supported with object store provider type.
787233	The hash key for enabling this FabricPool feature is not present on the cluster.
787234	The hash key provided for the node to enable this FabricPool feature is not valid.
787254	The parameter is not supported on this system.
787257	The parameter "-encryption-context" is only applicable for AWS object store provider.
787262	The "create-container" option is applicable only for an SGWS or ONTAP_S3 object store provider.
787301	ONTAP S3 Bucket is of type NAS and is not supported as a target for FabricPool.
787302	Cannot use HTTP port with "-is-ssl-enabled" set to true.
787303	Cannot use HTTPS port with "-is-ssl-enabled" set to false.
45940761	Hostname cannot be resolved. Check the spelling of the hostname and check the system DNS availability using the "vserver services name-service dns check" command.
45940778	Bucket already exists.
139591795	Object store configuration for S3 SnapMirror representing ONTAP S3 object store provider only supports \"*\" as the container name.
139591796	Object store configuration name for S3 SnapMirror representing ONTAP S3 object store provider must be of the format \"vserver:<destination_vserver_uuid>:<source_vserver_uuid>\\\".</source_vserver_uuid></destination_vserver_uuid>

Also see the table of common errors in the Response body overview section of this documentation.

Name	Type	Description
error	returned_error	

Example error

```json
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

cluster

Name	Type	Description
name	string	The name of the cluster that owns the cloud target. For POST, this accepts the name of the peer cluster only if the cluster is in switchover state.
uuid	string	The UUID of the cluster that owns the cloud target. For POST, this accepts the UUID of the peer cluster only if the cluster is in switchover state.

ipspace

IPspace to use in order to reach the cloud target.

Name	Type	Description
_links	_links	
name	string	IPspace name
uuid	string	IPspace UUID

svm

This field is only applicable when used for SnapMirror and FabricLink. For POST and PATCH, SVM information is required for SnapMirror and FabricLink targets and not allowed for FabricPool targets.

Name	Type	Description
_links	_links	

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

cloud_target

Name	Type	Description
_links	_links	
access_key	string	Access key ID for AWS_S3 and other S3 compatible provider types.
authentication_type	string	Authentication used to access the target. SnapMirror does not yet support CAP. Required in POST.
azure_account	string	Azure account
azure_private_key	string	Azure access key
azure_sas_token	string	Shared access signature token to access Azure containers and blobs.
cap_url	string	This parameter is available only when auth-type is CAP. It specifies a full URL of the request to a CAP server for retrieving temporary credentials (access-key, secret-password, and session token) for accessing the object store.
certificate_validation_enabled	boolean	Is SSL/TLS certificate validation enabled? The default value is true. This can only be modified for SGWS, IBM_COS, and ONTAP_S3 provider types. • Introduced in: 9.6 • x-nullable: true

Name	Type	Description
cluster	cluster	
container	string	Data bucket/container name. For FabricLink, a wildcard character "*" can also be specified to indicate that all the buckets in an SVM can use the same target information. However, for containers other than ONTAP, an exact name should be specified. • example: bucket1 • Introduced in: 9.6 • readCreate: 1 • x-nullable: true
ipspace	ipspace	IPspace to use in order to reach the cloud target.
name	string	Cloud target name
owner	string	Owner of the target. Allowed values are FabricPool, SnapMirror or S3_SnapMirror. A target can be used by only one feature.
port	integer	Port number of the object store that ONTAP uses when establishing a connection. Required in POST. • Introduced in: 9.6 • x-nullable: true

Name	Type	Description
provider_type	string	Type of cloud provider. Allowed values depend on owner type. For FabricPool, AliCloud, AWS_S3, Azure_Cloud, GoogleCloud, IBM_COS, SGWS, and ONTAP_S3 are allowed. For SnapMirror, the valid values are AWS_S3 or SGWS. For FabricLink, AWS_S3, SGWS, S3_Compatible, S3EMU, LOOPBACK and ONTAP_S3 are allowed. • Introduced in: 9.6 • readCreate: 1 • x-nullable: true
scope	string	If the cloud target is owned by a data SVM, then the scope is set to svm. Otherwise it will be set to cluster.
secret_password	string	Secret access key for AWS_S3 and other S3 compatible provider types.
server	string	Fully qualified domain name of the object store server. Required on POST. For Amazon S3, server name must be an AWS regional endpoint in the format s3.amazonaws.com or s3-<region>.amazonaws.com, for example, s3-us-west-2.amazonaws.com. The region of the server and the bucket must match. For Azure, if the server is a "blob.core.windows.net" or a "blob.core.usgovcloudapi.net", then a value of azure-account followed by a period is added in front of the server.</region>

Name	Type	Description
server_side_encryption	string	Encryption of data at rest by the object store server for AWS_S3 and other S3 compatible provider types. This is an advanced property. In most cases it is best not to change default value of "sse_s3" for object store servers which support SSE-S3 encryption. The encryption is in addition to any encryption done by ONTAP at a volume or at an aggregate level. Note that changing this option does not change encryption of data which already exist in the object store. • enum: ["none", "sse_s3"] • Introduced in: 9.7 • x-nullable: true
snapmirror_use	string	Use of the cloud target by SnapMirror.
ssl_enabled	boolean	SSL/HTTPS enabled or not
svm	svm	This field is only applicable when used for SnapMirror and FabricLink. For POST and PATCH, SVM information is required for SnapMirror and FabricLink targets and not allowed for FabricPool targets.
url_style	string	URL style used to access S3 bucket.
use_http_proxy	boolean	Use HTTP proxy when connecting to the object store.
used	integer	The amount of cloud space used by all the aggregates attached to the target, in bytes. This field is only populated for FabricPool targets. The value is recalculated once every 5 minutes.
uuid	string	Cloud target UUID

job_link

Name	Type	Description
_links	_links	
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Delete a cloud target

DELETE /cloud/targets/{uuid}

Introduced In: 9.6

Deletes the cloud target specified by the UUID. This request starts a job and returns a link to that job.

Related ONTAP commands

* `storage aggregate object-store config delete`

Parameters

Name	Type	In	Required	Description
uuid	string	path	True	Cloud target UUID

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. • Default value: 1 • Max value: 120 • Min value: 0

Response

```
Status: 200, Ok
```

Name	Type	Description
job	job_link	

Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

Response

```
Status: 202, Accepted
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
787013	Cannot delete object store configuration as the store is attached to one or more aggregates.
787014	Cannot delete object store configuration as there are objects in the store.
787078	Cannot delete object store configuration.
787188	Object store configuration belongs to another cluster and cannot be modified from the local cluster, unless the cluster is in switchover mode.
787216	Cannot perform object store configuration operations on a cluster that is waiting for switchback.

Also see the table of common errors in the Response body overview section of this documentation.

Name	Type	Description
error	returned_error	

Example error

```json
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

job_link

Name	Type	Description
_links	_links	
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve a cloud target

GET /cloud/targets/{uuid}

Introduced In: 9.6

Retrieves the cloud target specified by the UUID.

Related ONTAP commands

- `storage aggregate object-store config show`

Parameters

Name	Type	In	Required	Description
uuid	string	path	True	Cloud target UUID
fields	array[string]	query	False	Specify the fields to return.

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
access_key	string	Access key ID for AWS_S3 and other S3 compatible provider types.
authentication_type	string	Authentication used to access the target. SnapMirror does not yet support CAP. Required in POST.
azure_account	string	Azure account
azure_private_key	string	Azure access key
azure_sas_token	string	Shared access signature token to access Azure containers and blobs.
cap_url	string	This parameter is available only when auth-type is CAP. It specifies a full URL of the request to a CAP server for retrieving temporary credentials (access-key, secret-pasword, and session token) for accessing the object store.

Name	Type	Description
certificate_validation_enabled	boolean	Is SSL/TLS certificate validation enabled? The default value is true. This can only be modified for SGWS, IBM_COS, and ONTAP_S3 provider types. • Introduced in: 9.6 • x-nullable: true
cluster	cluster	
container	string	Data bucket/container name. For FabricLink, a wildcard character "*" can also be specified to indicate that all the buckets in an SVM can use the same target information. However, for containers other than ONTAP, an exact name should be specified. • example: bucket1 • Introduced in: 9.6 • readCreate: 1 • x-nullable: true
ipspace	ipspace	IPspace to use in order to reach the cloud target.
name	string	Cloud target name
owner	string	Owner of the target. Allowed values are FabricPool, SnapMirror or S3_SnapMirror. A target can be used by only one feature.
port	integer	Port number of the object store that ONTAP uses when establishing a connection. Required in POST. • Introduced in: 9.6 • x-nullable: true

Name	Type	Description
provider_type	string	Type of cloud provider. Allowed values depend on owner type. For FabricPool, AliCloud, AWS_S3, Azure_Cloud, GoogleCloud, IBM_COS, SGWS, and ONTAP_S3 are allowed. For SnapMirror, the valid values are AWS_S3 or SGWS. For FabricLink, AWS_S3, SGWS, S3_Compatible, S3EMU, LOOPBACK and ONTAP_S3 are allowed. • Introduced in: 9.6 • readCreate: 1 • x-nullable: true
scope	string	If the cloud target is owned by a data SVM, then the scope is set to svm. Otherwise it will be set to cluster.
secret_password	string	Secret access key for AWS_S3 and other S3 compatible provider types.
server	string	Fully qualified domain name of the object store server. Required on POST. For Amazon S3, server name must be an AWS regional endpoint in the format s3.amazonaws.com or s3-<region>.amazonaws.com, for example, s3-us-west-2.amazonaws.com. The region of the server and the bucket must match. For Azure, if the server is a "blob.core.windows.net" or a "blob.core.usgovcloudapi.net", then a value of azure-account followed by a period is added in front of the server.</region>

Name	Type	Description
server_side_encryption	string	Encryption of data at rest by the object store server for AWS_S3 and other S3 compatible provider types. This is an advanced property. In most cases it is best not to change default value of "sse_s3" for object store servers which support SSE-S3 encryption. The encryption is in addition to any encryption done by ONTAP at a volume or at an aggregate level. Note that changing this option does not change encryption of data which already exist in the object store. • enum: ["none", "sse_s3"] • Introduced in: 9.7 • x-nullable: true
snapmirror_use	string	Use of the cloud target by SnapMirror.
ssl_enabled	boolean	SSL/HTTPS enabled or not
svm	svm	This field is only applicable when used for SnapMirror and FabricLink. For POST and PATCH, SVM information is required for SnapMirror and FabricLink targets and not allowed for FabricPool targets.
url_style	string	URL style used to access S3 bucket.
use_http_proxy	boolean	Use HTTP proxy when connecting to the object store.
used	integer	The amount of cloud space used by all the aggregates attached to the target, in bytes. This field is only populated for FabricPool targets. The value is recalculated once every 5 minutes.
uuid	string	Cloud target UUID

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "access_key": "string",
  "authentication_type": "string",
  "azure_account": "string",
  "azure_private_key": "string",
  "azure_sas_token": "string",
  "cap_url":
"https://123.45.67.89:1234/CAP/api/v1/credentials?agency=myagency&missi
on=mymission&role=myrole",
  "cluster": {
    "name": "string",
    "uuid": "string"
  },
  "container": "bucket1",
  "ipspace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "exchange",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "name": "string",
  "owner": "string",
  "provider_type": "string",
  "scope": "string",
  "secret_password": "string",
  "server": "string",
  "server_side_encryption": "string",
  "snapmirror_use": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
```

```
    },
    "url_style": "string",
    "used": 0,
    "uuid": "string"
  }
```

Error

```
Status: Default, Error
```

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

cluster

Name	Type	Description
name	string	The name of the cluster that owns the cloud target. For POST, this accepts the name of the peer cluster only if the cluster is in switchover state.
uuid	string	The UUID of the cluster that owns the cloud target. For POST, this accepts the UUID of the peer cluster only if the cluster is in switchover state.

ipspace

IPspace to use in order to reach the cloud target.

Name	Type	Description
_links	_links	
name	string	IPspace name
uuid	string	IPspace UUID

svm

This field is only applicable when used for SnapMirror and FabricLink. For POST and PATCH, SVM information is required for SnapMirror and FabricLink targets and not allowed for FabricPool targets.

Name	Type	Description
_links	_links	

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update a cloud target

PATCH `/cloud/targets/{uuid}`

Introduced In: 9.6

Updates the cloud target specified by the UUID with the fields in the body. This request starts a job and returns a link to that job.

Related ONTAP commands

• `storage aggregate object-store config modify`

Parameters

Name	Type	In	Required	Description
uuid	string	path	True	Cloud target UUID
ignore_warnings	boolean	query	False	Specifies whether or not warnings should be ignored.
check_only	boolean	query	False	Do not modify the configuration, only check that the PATCH request succeeds.
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. • Default value: 1 • Max value: 120 • Min value: 0

Request Body

Name	Type	Description
_links	_links	
access_key	string	Access key ID for AWS_S3 and other S3 compatible provider types.
authentication_type	string	Authentication used to access the target. SnapMirror does not yet support CAP. Required in POST.
azure_account	string	Azure account
azure_private_key	string	Azure access key
azure_sas_token	string	Shared access signature token to access Azure containers and blobs.
cap_url	string	This parameter is available only when auth-type is CAP. It specifies a full URL of the request to a CAP server for retrieving temporary credentials (access-key, secret-pasword, and session token) for accessing the object store.
certificate_validation_enabled	boolean	Is SSL/TLS certificate validation enabled? The default value is true. This can only be modified for SGWS, IBM_COS, and ONTAP_S3 provider types. • Introduced in: 9.6 • x-nullable: true
cluster	cluster	
container	string	Data bucket/container name. For FabricLink, a wildcard character "*" can also be specified to indicate that all the buckets in an SVM can use the same target information. However, for containers other than ONTAP, an exact name should be specified. • example: bucket1 • Introduced in: 9.6 • readCreate: 1 • x-nullable: true

Name	Type	Description
ipspace	ipspace	IPspace to use in order to reach the cloud target.
name	string	Cloud target name
owner	string	Owner of the target. Allowed values are FabricPool, SnapMirror or S3_SnapMirror. A target can be used by only one feature.
port	integer	Port number of the object store that ONTAP uses when establishing a connection. Required in POST. • Introduced in: 9.6 • x-nullable: true
provider_type	string	Type of cloud provider. Allowed values depend on owner type. For FabricPool, AliCloud, AWS_S3, Azure_Cloud, GoogleCloud, IBM_COS, SGWS, and ONTAP_S3 are allowed. For SnapMirror, the valid values are AWS_S3 or SGWS. For FabricLink, AWS_S3, SGWS, S3_Compatible, S3EMU, LOOPBACK and ONTAP_S3 are allowed. • Introduced in: 9.6 • readCreate: 1 • x-nullable: true
scope	string	If the cloud target is owned by a data SVM, then the scope is set to svm. Otherwise it will be set to cluster.
secret_password	string	Secret access key for AWS_S3 and other S3 compatible provider types.

Name	Type	Description
server	string	Fully qualified domain name of the object store server. Required on POST. For Amazon S3, server name must be an AWS regional endpoint in the format s3.amazonaws.com or s3-<region>.amazonaws.com, for example, s3-us-west-2.amazonaws.com. The region of the server and the bucket must match. For Azure, if the server is a "blob.core.windows.net" or a "blob.core.usgovcloudapi.net", then a value of azure-account followed by a period is added in front of the server.</region>
server_side_encryption	string	Encryption of data at rest by the object store server for AWS_S3 and other S3 compatible provider types. This is an advanced property. In most cases it is best not to change default value of "sse_s3" for object store servers which support SSE-S3 encryption. The encryption is in addition to any encryption done by ONTAP at a volume or at an aggregate level. Note that changing this option does not change encryption of data which already exist in the object store. • enum: ["none", "sse_s3"] • Introduced in: 9.7 • x-nullable: true
snapmirror_use	string	Use of the cloud target by SnapMirror.
ssl_enabled	boolean	SSL/HTTPS enabled or not
svm	svm	This field is only applicable when used for SnapMirror and FabricLink. For POST and PATCH, SVM information is required for SnapMirror and FabricLink targets and not allowed for FabricPool targets.

Name	Type	Description
url_style	string	URL style used to access S3 bucket.
use_http_proxy	boolean	Use HTTP proxy when connecting to the object store.
used	integer	The amount of cloud space used by all the aggregates attached to the target, in bytes. This field is only populated for FabricPool targets. The value is recalculated once every 5 minutes.
uuid	string	Cloud target UUID

Example request

```json
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "access_key": "string",
  "authentication_type": "string",
  "azure_account": "string",
  "azure_private_key": "string",
  "azure_sas_token": "string",
  "cap_url":
"https://123.45.67.89:1234/CAP/api/v1/credentials?agency=myagency&mission=mymission&role=myrole",
  "cluster": {
    "name": "string",
    "uuid": "string"
  },
  "container": "bucket1",
  "ipspace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "exchange",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "name": "string",
  "owner": "string",
  "provider_type": "string",
  "scope": "string",
  "secret_password": "string",
  "server": "string",
  "server_side_encryption": "string",
  "snapmirror_use": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
```

```
    },
    "url_style": "string",
    "used": 0,
    "uuid": "string"
  }
}
```

Response

```
Status: 200, Ok
```

Name	Type	Description
job	job_link	

Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

Response

```
Status: 202, Accepted
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
786436	VLDB is not running.
786908	Capability check failed.

Error Code	Description
787016	An object store configuration with the same combination of server and container name already exists.
787036	Server name is invalid. A valid server name must be a fully qualified domain name.
787038	Object store provider type requires a FabricPool license.
787039	Failed to retrieve FabricPool capacity license information.
787054	An object store configuration with the same combination of server, azure account and container name already exists.
787064	Object store server provider type does not match object store provider type. Use the provider type that matches the server.
787065	Certificate validation must be enabled for the object store provider.
787066	Certificate validation cannot be specified when the "-is-ssl-enabled" parameter is false.
787068	Disabling certificate validation requires an effective cluster version of ONTAP 9.4.0 or later.
787089	The object store provider supports the virtual hosted-style, and the specified "-server" contains the container name. The container specified in the "-server" parameter must be the same as the name of the container specified in the "-container" parameter.
787133	Could not retrieve temporary credentials from the CAP server.
787134	Could not retrieve temporary credentials from the CAP server due to an unexpected response.
787136	Specifying "CAP" as the "-auth-type" requires an effective cluster version of ONTAP 9.5.0 or later.
787148	The clock on the node is behind by more than the maximum of 5 minutes.
787149	The clock on the node is ahead by more than the maximum of 5 minutes.
787184	Using HTTP proxies with FabricPool requires an effective cluster version of ONTAP 9.7.0 or later.
787185	There is no HTTP proxy for IPspace. Refer to the "vserver http-proxy" man page for details.

Error Code	Description
787188	Object store configuration belongs to cluster and cannot be modified from the local cluster, unless the cluster is in switchover mode.
787209	Object store is not accessible from the partner cluster in a MetroCluster configuration.
787216	Cannot perform object store configuration operations on a cluster that is waiting for switchback.
787223	Specifying "GCP_SA" as the "-auth-type" requires an effective cluster version of ONTAP 9.7.0 or later.
787227	Specifying "Azure_MSI" as the "-auth-type" requires an effective cluster version of ONTAP 9.7 or later.
787228	SSL is required for this configuration.
787229	Cannot perform operation as URL style is not supported with object store provider type.
787233	The hash key for enabling this FabricPool feature is not present on the cluster.
787234	The hash key provided for the node to enable this FabricPool feature is not valid.
787254	The parameter is not supported on this system.
787257	The parameter "-encryption-context" is only applicable for AWS object store provider.
787301	ONTAP S3 Bucket is of type NAS and is not supported as a target for FabricPool.
787302	Cannot use HTTP port with "-is-ssl-enabled" set to true.
787303	Cannot use HTTPS port with "-is-ssl-enabled" set to false.
787306	Object store is not accessible from the partner cluster in a MetroCluster configuration.
45940761	Hostname cannot be resolved. Check the spelling of the hostname and check the system DNS availability using the "vserver services name-service dns check" command.
45940778	Bucket already exists.

Also see the table of common errors in the Response body overview section of this documentation.

Name	Type	Description
error	returned_error	

Example error

```json
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

cluster

Name	Type	Description
name	string	The name of the cluster that owns the cloud target. For POST, this accepts the name of the peer cluster only if the cluster is in switchover state.
uuid	string	The UUID of the cluster that owns the cloud target. For POST, this accepts the UUID of the peer cluster only if the cluster is in switchover state.

ipspace

IPspace to use in order to reach the cloud target.

Name	Type	Description
_links	_links	
name	string	IPspace name
uuid	string	IPspace UUID

svm

This field is only applicable when used for SnapMirror and FabricLink. For POST and PATCH, SVM information is required for SnapMirror and FabricLink targets and not allowed for FabricPool targets.

Name	Type	Description
_links	_links	

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

cloud_target

Name	Type	Description
_links	_links	
access_key	string	Access key ID for AWS_S3 and other S3 compatible provider types.
authentication_type	string	Authentication used to access the target. SnapMirror does not yet support CAP. Required in POST.
azure_account	string	Azure account
azure_private_key	string	Azure access key
azure_sas_token	string	Shared access signature token to access Azure containers and blobs.
cap_url	string	This parameter is available only when auth-type is CAP. It specifies a full URL of the request to a CAP server for retrieving temporary credentials (access-key, secret-password, and session token) for accessing the object store.
certificate_validation_enabled	boolean	Is SSL/TLS certificate validation enabled? The default value is true. This can only be modified for SGWS, IBM_COS, and ONTAP_S3 provider types. • Introduced in: 9.6 • x-nullable: true

Name	Type	Description
cluster	cluster	
container	string	Data bucket/container name. For FabricLink, a wildcard character "*" can also be specified to indicate that all the buckets in an SVM can use the same target information. However, for containers other than ONTAP, an exact name should be specified. • example: bucket1 • Introduced in: 9.6 • readCreate: 1 • x-nullable: true
ipspace	ipspace	IPspace to use in order to reach the cloud target.
name	string	Cloud target name
owner	string	Owner of the target. Allowed values are FabricPool, SnapMirror or S3_SnapMirror. A target can be used by only one feature.
port	integer	Port number of the object store that ONTAP uses when establishing a connection. Required in POST. • Introduced in: 9.6 • x-nullable: true

Name	Type	Description
provider_type	string	Type of cloud provider. Allowed values depend on owner type. For FabricPool, AliCloud, AWS_S3, Azure_Cloud, GoogleCloud, IBM_COS, SGWS, and ONTAP_S3 are allowed. For SnapMirror, the valid values are AWS_S3 or SGWS. For FabricLink, AWS_S3, SGWS, S3_Compatible, S3EMU, LOOPBACK and ONTAP_S3 are allowed. • Introduced in: 9.6 • readCreate: 1 • x-nullable: true
scope	string	If the cloud target is owned by a data SVM, then the scope is set to svm. Otherwise it will be set to cluster.
secret_password	string	Secret access key for AWS_S3 and other S3 compatible provider types.
server	string	Fully qualified domain name of the object store server. Required on POST. For Amazon S3, server name must be an AWS regional endpoint in the format s3.amazonaws.com or s3-<region>.amazonaws.com, for example, s3-us-west-2.amazonaws.com. The region of the server and the bucket must match. For Azure, if the server is a "blob.core.windows.net" or a "blob.core.usgovcloudapi.net", then a value of azure-account followed by a period is added in front of the server.</region>

Name	Type	Description
server_side_encryption	string	Encryption of data at rest by the object store server for AWS_S3 and other S3 compatible provider types. This is an advanced property. In most cases it is best not to change default value of "sse_s3" for object store servers which support SSE-S3 encryption. The encryption is in addition to any encryption done by ONTAP at a volume or at an aggregate level. Note that changing this option does not change encryption of data which already exist in the object store. • enum: ["none", "sse_s3"] • Introduced in: 9.7 • x-nullable: true
snapmirror_use	string	Use of the cloud target by SnapMirror.
ssl_enabled	boolean	SSL/HTTPS enabled or not
svm	svm	This field is only applicable when used for SnapMirror and FabricLink. For POST and PATCH, SVM information is required for SnapMirror and FabricLink targets and not allowed for FabricPool targets.
url_style	string	URL style used to access S3 bucket.
use_http_proxy	boolean	Use HTTP proxy when connecting to the object store.
used	integer	The amount of cloud space used by all the aggregates attached to the target, in bytes. This field is only populated for FabricPool targets. The value is recalculated once every 5 minutes.
uuid	string	Cloud target UUID

job_link

Name	Type	Description
_links	_links	
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.