# **■** NetApp

## Cloud

ONTAP 9.8 REST API reference

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## Cloud

#### **Cloud overview**

Manages cloud (object storage) targets

## Manage cloud targets

#### Cloud targets endpoint overview

#### Retrieving a collection of cloud targets

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	Туре	In	Required	Description
port	integer	query	False	Filter by port
azure_account	string	query	False	Filter by azure_account
snapmirror_use	string	query	False	Filter by snapmirror_use
ssl_enabled	boolean	query	False	Filter by ssl_enabled
access_key	string	query	False	Filter by access_key
certificate_validation _enabled	boolean	query	False	Filter by certificate_validation _enabled
uuid	string	query	False	Filter by uuid
owner	string	query	False	Filter by owner
name	string	query	False	Filter by name
use_http_proxy	boolean	query	False	Filter by use_http_proxy  • Introduced in: 9.7
server_side_encrypti on	string	query	False	Filter by server_side_encrypti on  • Introduced in: 9.7
server	string	query	False	Filter by server
provider_type	string	query	False	Filter by provider_type
cap_url	string	query	False	Filter by cap_url
cluster.uuid	string	query	False	• Introduced in: 9.7

Name	Туре	In	Required	Description
cluster.name	string	query	False	Filter by cluster.name  • Introduced in: 9.7
container	string	query	False	Filter by container
ipspace.name	string	query	False	Filter by ipspace.name
ipspace.uuid	string	query	False	Filter by ipspace.uuid
authentication_type	string	query	False	Filter by authentication_type
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
url_style	string	query	False	Filter by url_style • Introduced in: 9.8
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	Туре	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	Туре	Description
_links	_links	
num_records	integer	Number of records
records	array[cloud_target]	

```
" links": {
    "next": {
     "href": "/api/resourcelink"
   },
   "self": {
     "href": "/api/resourcelink"
    }
 },
  "records": {
    " links": {
      "self": {
       "href": "/api/resourcelink"
     }
    },
    "authentication type": "key",
    "cap url":
"https://123.45.67.89:1234/CAP/api/v1/credentials?agency=myagency&missi
on=mymission&role=myrole",
    "container": "bucket1",
    "ipspace": {
      " links": {
        "self": {
         "href": "/api/resourcelink"
        }
      },
     "name": "exchange",
     "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "owner": "fabricpool",
    "server side encryption": "none",
    "snapmirror use": "data",
    "svm": {
     " links": {
       "self": {
          "href": "/api/resourcelink"
       }
      },
      "name": "svm1",
     "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    "url style": "path style",
    "used": 0,
    "uuid": "string"
```

```
}
```

#### **Error**

```
Status: Default, Error
```

Name	Туре	Description
error	error	

#### **Example error**

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

#### **Definitions**

#### **See Definitions**

href

Name	Туре	Description
href	string	

\_links

Name	Туре	Description
next	href	
self	href	

\_links

Name	Туре	Description
self	href	

#### cluster

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

svm

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

required for SnapMirror targets and not allowed for FabricPool targets.

Name	Туре	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

## cloud\_target

Name	Туре	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
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
cluster	cluster	
container	string	Data bucket/container name
ipspace	ipspace	IPspace to use in order to reach the cloud target.

Name	Туре	Description
name	string	Cloud target name
owner	string	Owner of the target. Allowed values are FabricPool or 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
provider_type	string	Type of cloud provider. Allowed values depend on owner type. For FabricPool, AliCloud, AWS_S3, Azure_Cloud, GoggleCloud, IBM_COS, SGWS, and ONTAP_S3 are allowed. For SnapMirror, the valid values are AWS_S3 or SGWS.  • Introduced in: 9.6  • readCreate: 1
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	Туре	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
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. For POST and PATCH, SVM information is required for SnapMirror 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	Туре	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Туре	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*.

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

#### **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 and provider type is not SGWS
- 8082 if ssl enabled is true and provider type is SGWS
- 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	Туре	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	Туре	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	Туре	Description
_links	_links	
access_key	string	Access key ID for AWS_S3 and other S3 compatible provider types.

Name	Туре	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
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
cluster	cluster	
container	string	Data bucket/container name
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 or 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

Name	Туре	Description
provider_type	string	Type of cloud provider. Allowed values depend on owner type. For FabricPool, AliCloud, AWS_S3, Azure_Cloud, GoggleCloud, IBM_COS, SGWS, and ONTAP_S3 are allowed. For SnapMirror, the valid values are AWS_S3 or SGWS.  • Introduced in: 9.6  • readCreate: 1
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- <li>region&gt;.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.</li>

Name	Туре	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
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. For POST and PATCH, SVM information is required for SnapMirror 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"
   }
 },
 "authentication type": "key",
 "cap url":
"https://123.45.67.89:1234/CAP/api/v1/credentials?agency=myagency&missi
on=mymission&role=myrole",
  "container": "bucket1",
 "ipspace": {
    " links": {
      "self": {
       "href": "/api/resourcelink"
    },
    "name": "exchange",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
 "owner": "fabricpool",
 "server side encryption": "none",
  "snapmirror_use": "data",
 "svm": {
    " links": {
     "self": {
       "href": "/api/resourcelink"
     }
    },
    "name": "svm1",
   "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
 "url_style": "path_style",
 "used": 0,
 "uuid": "string"
}
```

#### Response

```
Status: 202, Accepted
```

Name	Туре	Description
job	job_link	

#### Example response

#### **Error**

```
Status: Default, Error
```

Name	Туре	Description
error	error	

#### Example error

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

#### **Definitions**

#### **See Definitions**

href

Name	Туре	Description
href	string	

links

Name	Туре	Description
self	href	

#### cluster

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

#### svm

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

Name	Туре	Description
_links	_links	
name	string	The name of the SVM.

Name	Туре	Description
uuid	string	The unique identifier of the SVM.

#### cloud\_target

Name	Туре	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
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 (accesskey, 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
cluster	cluster	
container	string	Data bucket/container name
ipspace	ipspace	IPspace to use in order to reach the cloud target.
name	string	Cloud target name

Name	Туре	Description
owner	string	Owner of the target. Allowed values are FabricPool or 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
provider_type	string	Type of cloud provider. Allowed values depend on owner type. For FabricPool, AliCloud, AWS_S3, Azure_Cloud, GoggleCloud, IBM_COS, SGWS, and ONTAP_S3 are allowed. For SnapMirror, the valid values are AWS_S3 or SGWS.  • Introduced in: 9.6  • readCreate: 1
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	Туре	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
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. For POST and PATCH, SVM information is required for SnapMirror 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	Туре	Description
_links	_links	
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

#### error\_arguments

Name	Туре	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Туре	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	Туре	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: 202, Accepted

Name	Туре	Description
job	job_link	

#### **Example response**

#### **Error**

```
Status: Default, Error
```

Name	Туре	Description
error	error	

#### **Example error**

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

#### **Definitions**

#### **See Definitions**

Name	Туре	Description
href	string	

#### \_links

Name	Туре	Description
self	href	

#### job\_link

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

#### error\_arguments

Name	Туре	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Туре	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	Туре	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	Туре	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
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	Туре	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
cluster	cluster	
container	string	Data bucket/container name
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 or 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
provider_type	string	Type of cloud provider. Allowed values depend on owner type. For FabricPool, AliCloud, AWS_S3, Azure_Cloud, GoggleCloud, IBM_COS, SGWS, and ONTAP_S3 are allowed. For SnapMirror, the valid values are AWS_S3 or SGWS.  • Introduced in: 9.6  • readCreate: 1
secret_password	string	Secret access key for AWS_S3 and other S3 compatible provider types.

Name	Туре	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- <li>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.</li></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
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. For POST and PATCH, SVM information is required for SnapMirror targets and not allowed for FabricPool targets.
url_style	string	URL style used to access S3 bucket.

Name	Туре	Description
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"
   }
 },
 "authentication type": "key",
 "cap url":
"https://123.45.67.89:1234/CAP/api/v1/credentials?agency=myagency&missi
on=mymission&role=myrole",
  "container": "bucket1",
 "ipspace": {
    " links": {
      "self": {
       "href": "/api/resourcelink"
    },
    "name": "exchange",
   "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
 "owner": "fabricpool",
 "server side encryption": "none",
  "snapmirror_use": "data",
 "svm": {
    " links": {
     "self": {
       "href": "/api/resourcelink"
     }
    },
    "name": "svm1",
   "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
 "url_style": "path_style",
 "used": 0,
 "uuid": "string"
}
```

#### **Error**

```
Status: Default, Error
```

Name	Туре	Description
error	error	

#### Example error

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

#### **Definitions**

#### **See Definitions**

href

Name	Туре	Description
href	string	

links

Name	Туре	Description
self	href	

#### cluster

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

#### svm

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

Name	Туре	Description
_links	_links	
name	string	The name of the SVM.

Name	Туре	Description
uuid	string	The unique identifier of the SVM.

### error\_arguments

Name	Туре	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Туре	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	Туре	In	Required	Description
uuid	string	path	True	Cloud target UUID
ignore_warnings	boolean	query	False	Specifies whether or not warnings should be ignored.

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

Name	Туре	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
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
cluster	cluster	
container	string	Data bucket/container name
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 or 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

Name	Туре	Description
provider_type	string	Type of cloud provider. Allowed values depend on owner type. For FabricPool, AliCloud, AWS_S3, Azure_Cloud, GoggleCloud, IBM_COS, SGWS, and ONTAP_S3 are allowed. For SnapMirror, the valid values are AWS_S3 or SGWS.  • Introduced in: 9.6  • readCreate: 1
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	Туре	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
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. For POST and PATCH, SVM information is required for SnapMirror 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"
   }
 },
 "authentication type": "key",
 "cap url":
"https://123.45.67.89:1234/CAP/api/v1/credentials?agency=myagency&missi
on=mymission&role=myrole",
  "container": "bucket1",
 "ipspace": {
    " links": {
      "self": {
       "href": "/api/resourcelink"
    },
    "name": "exchange",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
 "owner": "fabricpool",
 "server side encryption": "none",
  "snapmirror_use": "data",
 "svm": {
    " links": {
     "self": {
       "href": "/api/resourcelink"
     }
    },
    "name": "svm1",
   "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
 "url_style": "path_style",
 "used": 0,
 "uuid": "string"
}
```

#### Response

```
Status: 202, Accepted
```

Name	Туре	Description
job	job_link	

### **Example response**

#### **Error**

```
Status: Default, Error
```

Name	Туре	Description
error	error	

## Example error

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

#### **Definitions**

#### **See Definitions**

href

Name	Туре	Description
href	string	

links

Name	Туре	Description
self	href	

### cluster

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

### svm

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

Name	Туре	Description
_links	_links	
name	string	The name of the SVM.

Name	Туре	Description
uuid	string	The unique identifier of the SVM.

## cloud\_target

Name	Туре	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
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 (accesskey, 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
cluster	cluster	
container	string	Data bucket/container name
ipspace	ipspace	IPspace to use in order to reach the cloud target.
name	string	Cloud target name

Name	Туре	Description
owner	string	Owner of the target. Allowed values are FabricPool or 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
provider_type	string	Type of cloud provider. Allowed values depend on owner type. For FabricPool, AliCloud, AWS_S3, Azure_Cloud, GoggleCloud, IBM_COS, SGWS, and ONTAP_S3 are allowed. For SnapMirror, the valid values are AWS_S3 or SGWS.  • Introduced in: 9.6  • readCreate: 1
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	Туре	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
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ssl_enabled	boolean	SSL/HTTPS enabled or not
svm	svm	This field is only applicable when used for SnapMirror. For POST and PATCH, SVM information is required for SnapMirror 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	Туре	Description
_links	_links	
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

## error\_arguments

Name	Туре	Description
code	string	Argument code
message	string	Message argument

#### error

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

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