Manage SAN initiators

ONTAP 9.15.1 REST API reference

NetApp
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Protocols SAN initiators endpoint overview

Overview

An initiator is a Fibre Channel (FC) world wide port name (WWPN), an iSCSI Qualified Name (IQN), or an iSCSI EUI (Extended Unique Identifier) that identifies a host endpoint. Initiators are collected into initiator groups (igroups) used to control which hosts can access specific LUNs. Initiators are also discovered as they log in to SAN network LIFs.

ONTAP supports configuration for an initiator. Configured properties apply to all uses of the initiator within an SVM. Although the same initiator may interact with multiple SVMs of a cluster, ONTAP treats initiator configuration as an SVM-scoped activity. For example, a comment may be set for an initiator in a specific SVM. The comment value applies to all uses of the initiator in the SVM including use in multiple initiator groups. But a different comment value may be specified for the same initiator in a different SVM.

The initiator REST API provides read-only access to properties of initators.

An FC WWPN consists of 16 hexadecimal digits grouped as 8 pairs separated by colons. The format for an iSCSI IQN is *iqn.yyyy-mm.reverse_domain_name:any*. The iSCSI EUI format consists of the *eui.* prefix followed by 16 hexadecimal characters.

Retrieve initiators

GET `/protocols/san/initiators`

Introduced In: 9.14

Retrieves initiators.

Related ONTAP commands

- `lun igroup initiator show`

Learn more

- DOC /protocols/san/initiators

Parameters

Name	Type	In	Required	Description
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
name	string	query	False	Filter by name

Name	Type	In	Required	Description
comment	string	query	False	Filter by comment • maxLength: 254 • minLength: 0
protocol	string	query	False	Filter by protocol
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
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	The number of records in the response.
records	array[initiator]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "comment": "My initiator comment.",
      "name": "iqn.2018-02.com.netapp.iscsi:name1",
      "protocol": "iscsi",
      "proximity": {
        "peer_svms": [
          {
            "_links": {
              "self": {
                "href": "/api/resourcelink"
              }
            },
            "name": "peer1",
            "uuid": "4204cf77-4c82-9bdb-5644-b5a841c097a9"
          }
        ]
      },
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```

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	

peer_svms

A reference to an SVM peer relationship.

Name	Type	Description
_links	_links	
name	string	The local name of the peer SVM. This name is unique among all local and peer SVMs.
uuid	string	The unique identifier of the SVM peer relationship. This is the UUID of the relationship, not the UUID of the peer SVM itself.

proximity

Properties that define to what SVMs the initiator is proximal. This information is used to properly report active optimized and active non-optimized network paths via ALUA. If no configuration has been specified for the initiator, the sub-object will not be present in GET.

These properties apply to all instances of the initiator in all initiator groups in the SVM and its peers.

Name	Type	Description
local_svm	boolean	A boolean that indicates if the initiator is proximal to the SVM for which it is configured.

Name	Type	Description
peer_svms	array[peer_svms]	An array of remote peer SVMs to which the initiator is proximal.

svm

The SVM for which the initiator properties are configured.

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.

initiator

An initiator is a Fibre Channel (FC) world wide port name (WWPN), an iSCSI Qualified Name (IQN), or an iSCSI EUI (Extended Unique Identifier) that identifies a host endpoint. Initiators are collected into initiator groups (igroups) used to control which hosts can access specific LUNs. Initiators are also discovered as they log in to SAN network LIFs.

ONTAP supports configuration for an initiator. Configured properties apply to all uses of the initiator within an SVM. Although the same initiator may interact with multiple SVMs of a cluster, ONTAP treats initiator configuration as an SVM-scoped activity. For example, a comment may be set for an initiator in a specific SVM. The comment value applies to all uses of the initiator in the SVM including use in multiple initiator groups. But a different comment value may be specified for the same initiator in a different SVM.

Name	Type	Description
comment	string	A user-specified comment.
name	string	The name of the initiator.
protocol	string	The protocol of the initiator.

Name	Type	Description
proximity	proximity	Properties that define to what SVMs the initiator is proximal. This information is used to properly report active optimized and active non-optimized network paths via ALUA. If no configuration has been specified for the initiator, the sub-object will not be present in GET. These properties apply to all instances of the initiator in all initiator groups in the SVM and its peers.
svm	svm	The SVM for which the initiator properties are configured.

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 an initiator

GET `/protocols/san/initiators/{svm.uuid}/{name}`

Introduced In: 9.14

Retrieves an initiator.

Related ONTAP commands

- `lun igroup initiator show`

Learn more

- DOC /protocols/san/initiators

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	The unique identifier of the SVM for which the initiator properties are configured.
name	string	path	True	The name of the initiator.
fields	array[string]	query	False	Specify the fields to return.

Response

```
Status: 200, Ok
```

Name	Type	Description
comment	string	A user-specified comment.
name	string	The name of the initiator.
protocol	string	The protocol of the initiator.

Name	Type	Description
proximity	proximity	Properties that define to what SVMs the initiator is proximal. This information is used to properly report active optimized and active non-optimized network paths via ALUA. If no configuration has been specified for the initiator, the sub-object will not be present in GET. These properties apply to all instances of the initiator in all initiator groups in the SVM and its peers.
svm	svm	The SVM for which the initiator properties are configured.

Example response


```
{
  "comment": "My initiator comment.",
  "name": "iqn.2018-02.com.netapp.iscsi:name1",
  "protocol": "iscsi",
  "proximity": {
    "peer_svms": [
      {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "peer1",
        "uuid": "4204cf77-4c82-9bdb-5644-b5a841c097a9"
      }
    ]
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```


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	

peer_svms

A reference to an SVM peer relationship.

Name	Type	Description
_links	_links	
name	string	The local name of the peer SVM. This name is unique among all local and peer SVMs.
uuid	string	The unique identifier of the SVM peer relationship. This is the UUID of the relationship, not the UUID of the peer SVM itself.

proximity

Properties that define to what SVMs the initiator is proximal. This information is used to properly report active optimized and active non-optimized network paths via ALUA. If no configuration has been specified for the initiator, the sub-object will not be present in GET.

These properties apply to all instances of the initiator in all initiator groups in the SVM and its peers.

Name	Type	Description
local_svm	boolean	A boolean that indicates if the initiator is proximal to the SVM for which it is configured.
peer_svms	array[peer_svms]	An array of remote peer SVMs to which the initiator is proximal.

svm

The SVM for which the initiator properties are configured.

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.

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.

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