



Manage SAN LUN maps

ONTAP 9.13.1 REST API reference

NetApp
August 29, 2024

Table of Contents

- Manage SAN LUN maps 1
 - Protocols SAN lun-maps endpoint overview 1
 - Retrieve LUN maps 5
 - Create a LUN map 15
 - Delete a LUN map 29
 - Retrieve a LUN map 31

Manage SAN LUN maps

Protocols SAN lun-maps endpoint overview

Overview

A LUN map is an association between a LUN and an initiator group. When a LUN is mapped to an initiator group, the initiator group's initiators are granted access to the LUN. The relationship between an initiator group and a LUN is many initiator groups to many LUNs.

A LUN map also configures the cluster nodes from which network paths to the LUN are advertised via the SAN protocols as part of the Selective LUN Map (SLM) functionality of ONTAP. These nodes are referred to as the reporting nodes of a LUN map. For further information, see [DOC /protocols/san/lun-maps/{lun.uuid}/{igroup.uuid}/reporting-nodes](#) .

The LUN map REST API allows you to create, delete, and discover LUN maps, and manage the reporting nodes of a LUN map.

Examples

Creating a LUN map

```
# The API:
POST /api/protocols/san/lun-maps

# The call:
curl -X POST 'https://<mgmt-ip>/api/protocols/san/lun-maps' -H 'Accept:
application/hal+json' -d '{ "svm": { "name": "svm1" }, "igroup": { "name":
"igroup1" }, "lun": { "name": "/vol/vol1/lun1" } }'
```

Retrieving all of the LUN maps

```
# The API:
GET /api/protocols/san/lun-maps

# The call:
curl -X GET 'https://<mgmt-ip>/api/protocols/san/lun-maps' -H 'Accept:
application/hal+json'

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "03157e81-24c5-11e9-9ec1-005056bba643",
```

```
"name": "svm1",
  "_links": {
    "self": {
      "href": "/api/svm/svms/03157e81-24c5-11e9-9ec1-005056bba643"
    }
  }
},
"lun": {
  "uuid": "a60d9862-9bee-49a6-8162-20d2421bb1a6",
  "name": "/vol/vol1/lun1",
  "_links": {
    "self": {
      "href": "/api/storage/luns/a60d9862-9bee-49a6-8162-20d2421bb1a6"
    }
  }
},
"igroup": {
  "uuid": "40d98b2c-24c5-11e9-9ec1-005056bba643",
  "name": "ig1",
  "_links": {
    "self": {
      "href": "/api/protocols/san/igroups/40d98b2c-24c5-11e9-9ec1-005056bba643"
    }
  }
},
"_links": {
  "self": {
    "href": "/api/protocols/san/lun-maps/a60d9862-9bee-49a6-8162-20d2421bb1a6/40d98b2c-24c5-11e9-9ec1-005056bba643"
  }
}
},
"num_records": 1,
"_links": {
  "self": {
    "href": "/api/protocols/san/lun-maps"
  }
}
}
```

Retrieving a specific LUN map

```
# The API:
GET /api/protocols/san/lun-maps/{lun.uuid}/{igroup.uuid}

# The call:
curl -X GET 'https://<mgmt-ip>/api/protocols/san/lun-maps/a60d9862-9bee-49a6-8162-20d2421bb1a6/40d98b2c-24c5-11e9-9ec1-005056bba643' -H 'Accept: application/hal+json'

# The response:
{
  "svm": {
    "uuid": "03157e81-24c5-11e9-9ec1-005056bba643",
    "name": "svm1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/03157e81-24c5-11e9-9ec1-005056bba643"
      }
    }
  },
  "lun": {
    "uuid": "a60d9862-9bee-49a6-8162-20d2421bb1a6",
    "name": "/vol/vol1/lun1",
    "node": {
      "uuid": "7d8607ea-24c1-11e9-9ec1-005056bba643",
      "name": "node1",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/7d8607ea-24c1-11e9-9ec1-005056bba643"
        }
      }
    },
    "_links": {
      "self": {
        "href": "/api/storage/luns/a60d9862-9bee-49a6-8162-20d2421bb1a6"
      }
    }
  },
  "igroup": {
    "uuid": "40d98b2c-24c5-11e9-9ec1-005056bba643",
    "name": "ig1",
    "os_type": "linux",
    "protocol": "mixed",
    "_links": {
      "self": {
```

```
    "href": "/api/protocols/san/igroups/40d98b2c-24c5-11e9-9ec1-005056bba643"
  }
}
},
"logical_unit_number": 0,
"reporting_nodes": [
  {
    "uuid": "11a465f5-2ac0-11eb-a303-005056bb1e81",
    "name": "node1",
    "_links": {
      "node": {
        "href": "/cluster/nodes/11a465f5-2ac0-11eb-a303-005056bb1e81"
      },
      "self": {
        "href": "/api/protocols/san/lun-maps/a60d9862-9bee-49a6-8162-20d2421bb1a6/40d98b2c-24c5-11e9-9ec1-005056bba643/reporting-nodes/11a465f5-2ac0-11eb-a303-005056bb1e81"
      }
    }
  },
  {
    "uuid": "6c7cb50f-2abf-11eb-9840-005056bbd490",
    "name": "node2",
    "_links": {
      "node": {
        "href": "/cluster/nodes/6c7cb50f-2abf-11eb-9840-005056bbd490"
      },
      "self": {
        "href": "/api/protocols/san/lun-maps/a60d9862-9bee-49a6-8162-20d2421bb1a6/40d98b2c-24c5-11e9-9ec1-005056bba643/reporting-nodes/6c7cb50f-2abf-11eb-9840-005056bbd490"
      }
    }
  }
],
"_links": {
  "self": {
    "href": "/api/protocols/san/lun-maps/a60d9862-9bee-49a6-8162-20d2421bb1a6/40d98b2c-24c5-11e9-9ec1-005056bba643"
  }
}
}
```

Deleting a LUN map

```
# The API:
DELETE /api/protocols/san/lun-maps/{lun.uuid}/{igroup.uuid}

# The call:
curl -X DELETE 'https://<mgmt-ip>/api/protocols/san/lun-maps/a60d9862-
9bee-49a6-8162-20d2421bb1a6/40d98b2c-24c5-11e9-9ec1-005056bba643' -H
'Accept: application/hal+json'
```

Retrieve LUN maps

GET /protocols/san/lun-maps

Introduced In: 9.6

Retrieves LUN maps.

Related ONTAP commands

- [lun mapping show](#)

Learn more

- [DOC /protocols/san/lun-maps](#)

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|-------|----------|-----------------------------|
| igroup.initiators | string | query | False | Filter by igroup.initiators |
| igroup.protocol | string | query | False | Filter by igroup.protocol |
| igroup.os_type | string | query | False | Filter by igroup.os_type |
| igroup.uuid | string | query | False | Filter by igroup.uuid |
| igroup.name | string | query | False | Filter by igroup.name |
| svm.uuid | string | query | False | Filter by svm.uuid |
| svm.name | string | query | False | Filter by svm.name |

| Name | Type | In | Required | Description |
|----------------------|---------------|-------|----------|--|
| lun.node.name | string | query | False | Filter by lun.node.name |
| lun.node.uuid | string | query | False | Filter by lun.node.uuid |
| lun.name | string | query | False | Filter by lun.name |
| lun.uuid | string | query | False | Filter by lun.uuid |
| logical_unit_number | integer | query | False | Filter by logical_unit_number <ul style="list-style-type: none"> • Max value: 4095 • Min value: 0 |
| reporting_nodes.name | string | query | False | Filter by reporting_nodes.name <ul style="list-style-type: none"> • Introduced in: 9.10 |
| reporting_nodes.uuid | string | query | False | Filter by reporting_nodes.uuid <ul style="list-style-type: none"> • Introduced in: 9.10 |
| 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. <ul style="list-style-type: none"> • Default value: 1 |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| return_timeout | integer | query | False | <p>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.</p> <ul style="list-style-type: none"> • Max value: 120 • Min value: 0 • Default value: 1 |
| 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[lun_map] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "igroup": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "initiators": [
          "iqn.1998-01.com.corp.iscsi:name1"
        ],
        "name": "igroup1",
        "os_type": "string",
        "protocol": "string",
        "uuid": "1ad8544d-8cd1-91e0-9e1c-723478563412"
      },
      "logical_unit_number": 1,
      "lun": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "/vol/volume1/qtreet1/lun1",
        "node": {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          }
        }
      }
    }
  ]
}
```

```

    },
    "name": "node1",
    "uuid": "1cf8aa42-8cd1-12e0-a11c-423468563412"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"reporting_nodes": [
  {
    "_links": {
      "node": {
        "href": "/api/resourcelink"
      },
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "5ac8eb9c-4e32-dbaa-57ca-fb905976f54e"
  }
],
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
]
}

```

Error

Status: Default, Error

| Name | Type | 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 | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| next | href | |
| self | href | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

igroup

The initiator group to which the LUN is mapped. Required in POST by supplying either the `igroup.uuid`, `igroup.name`, or both.

| Name | Type | Description |
|------------|------------------------|---|
| _links | _links | |
| initiators | array[string] | The initiators that are members of the initiator group. |
| name | string | The name of the initiator group. Valid in POST. |
| os_type | string | The host operating system of the initiator group. All initiators in the group should be hosts of the same operating system. |
| protocol | string | The protocols supported by the initiator group. This restricts the type of initiators that can be added to the initiator group. |
| uuid | string | The unique identifier of the initiator group. Valid in POST. |

node

The LUN node.

| Name | Type | Description |
|------------------------|------------------------|--|
| _links | _links | |
| name | string | The name the LUN's node. |
| uuid | string | The unique identifier of the LUN node. |

lun

The LUN to which the initiator group is mapped. Required in POST by supplying either the `lun.uuid`, `lun.name`, or both.

| Name | Type | Description |
|------------------------|------------------------|--|
| _links | _links | |
| name | string | The fully qualified path name of the LUN composed of a "/vol" prefix, the volume name, the (optional) qtree name, and file name of the LUN. Valid in POST. |
| node | node | The LUN node. |
| uuid | string | The unique identifier of the LUN. Valid in POST. |

[_links](#)

| Name | Type | Description |
|------|----------------------|-------------|
| node | href | |
| self | href | |

reporting_nodes

A cluster node from which network paths to the LUN are advertised by ONTAP via the SAN protocols.

| Name | Type | Description |
|------------------------|------------------------|--|
| _links | _links | |
| name | string | The name of the node. Either <code>uuid</code> or <code>name</code> are required in POST. |

| Name | Type | Description |
|------|--------|---|
| uuid | string | The unique identifier of the node. Either <code>uuid</code> or <code>name</code> are required in POST. |

svm

| Name | Type | Description |
|------------------------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

lun_map

A LUN map is an association between a LUN and an initiator group. When a LUN is mapped to an initiator group, the initiator group's initiators are granted access to the LUN. The relationship between a LUN and an initiator group is many LUNs to many initiator groups.

| Name | Type | Description |
|------------------------|------------------------|---|
| _links | _links | |
| igroup | igroup | The initiator group to which the LUN is mapped. Required in POST by supplying either the <code>igroup.uuid</code> , <code>igroup.name</code> , or both. |

| Name | Type | Description |
|---------------------|--|--|
| logical_unit_number | integer | <p>The logical unit number assigned to the LUN when mapped to the specified initiator group. The number is used to identify the LUN to initiators in the initiator group when communicating through Fibre Channel Protocol or iSCSI. Optional in POST; if no value is provided, ONTAP assigns the lowest available value.</p> <ul style="list-style-type: none"> • example: 1 • Max value: 4095 • Min value: 0 • Introduced in: 9.6 • readCreate: 1 • x-nullable: true |
| lun | lun | <p>The LUN to which the initiator group is mapped. Required in POST by supplying either the <code>lun.uuid</code>, <code>lun.name</code>, or both.</p> |
| reporting_nodes | array[reporting_nodes] | <p>The cluster nodes from which network paths to the mapped LUNs are advertised via the SAN protocols as part of the Selective LUN Map (SLM) feature of ONTAP.</p> <p>When a LUN map is created, the cluster node hosting the LUN and its high availability (HA) partner are set as the default reporting node. In POST, the property <code>additional_reporting_node</code> may be used to add an additional node and its HA partner.</p> <p>For further information, see DOC /protocols/san/lun-maps/{lun.uuid}/{igroup.uuid}/reporting-nodes .</p> <ul style="list-style-type: none"> • readOnly: 1 • Introduced in: 9.10 |

| Name | Type | Description |
|------|---------------------|-------------|
| svm | svm | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

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 LUN map

POST /protocols/san/lun-maps

Introduced In: 9.6

Creates a LUN map.

Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create the LUN map.
- `igroup.uuid` or `igroup.name` - Existing initiator group to map to the specified LUN.
- `lun.uuid` or `lun.name` - Existing LUN to map to the specified initiator group.

Default property values

If not specified in POST, the following default property values are assigned.

- `logical_unit_number` - If no value is provided, ONTAP assigns the lowest available value.

Related ONTAP commands

- `lun mapping create`

Learn more

- [DOC /protocols/san/lun-maps](#)

Parameters

| Name | Type | In | Required | Description |
|--------------------------------|---------|-------|----------|---|
| additional_reporting_node.uuid | string | query | False | The unique identifier of an ONTAP cluster node to add to the default reporting nodes for the LUN map. The HA partner for the node is also added. • Introduced in: 9.10 |
| additional_reporting_node.name | string | query | False | The name of an ONTAP cluster node to add to the default reporting nodes for the LUN map. The HA partner for the node is also added. • Introduced in: 9.10 |
| 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 | |

| Name | Type | Description |
|---------------------|---------|--|
| igroup | igroup | The initiator group to which the LUN is mapped. Required in POST by supplying either the <code>igroup.uuid</code> , <code>igroup.name</code> , or both. |
| logical_unit_number | integer | <p>The logical unit number assigned to the LUN when mapped to the specified initiator group. The number is used to identify the LUN to initiators in the initiator group when communicating through Fibre Channel Protocol or iSCSI. Optional in POST; if no value is provided, ONTAP assigns the lowest available value.</p> <ul style="list-style-type: none"> • example: 1 • Max value: 4095 • Min value: 0 • Introduced in: 9.6 • readCreate: 1 • x-nullable: true |
| lun | lun | The LUN to which the initiator group is mapped. Required in POST by supplying either the <code>lun.uuid</code> , <code>lun.name</code> , or both. |

| Name | Type | Description |
|-----------------|--|--|
| reporting_nodes | array[reporting_nodes] | <p>The cluster nodes from which network paths to the mapped LUNs are advertised via the SAN protocols as part of the Selective LUN Map (SLM) feature of ONTAP.</p> <p>When a LUN map is created, the cluster node hosting the LUN and its high availability (HA) partner are set as the default reporting node. In POST, the property <code>additional_reporting_node</code> may be used to add an additional node and its HA partner.</p> <p>For further information, see DOC /protocols/san/lun-maps/{lun.uuid}/{igroup.uuid}/reporting-nodes .</p> <ul style="list-style-type: none"> • readOnly: 1 • Introduced in: 9.10 |
| svm | svm | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "igroup": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "initiators": [
      "iqn.1998-01.com.corp.iscsi:name1"
    ],
    "name": "igroup1",
    "os_type": "string",
    "protocol": "string",
    "uuid": "1ad8544d-8cd1-91e0-9e1c-723478563412"
  },
  "logical_unit_number": 1,
  "lun": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "/vol/volume1/mtree1/lun1",
    "node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "uuid": "1cf8aa42-8cd1-12e0-a11c-423468563412"
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "reporting_nodes": [
    {
      "_links": {
        "node": {
          "href": "/api/resourcelink"
        }
      }
    }
  ]
}
```

```

    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "node1",
  "uuid": "5ac8eb9c-4e32-dbaa-57ca-fb905976f54e"
}
],
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
}

```

Response

Status: 201, Created

| Name | Type | Description |
|-------------|----------------------------------|--|
| _links | _links | |
| num_records | integer | The number of records in the response. |
| records | array[lun_map] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "igroup": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "initiators": [
          "iqn.1998-01.com.corp.iscsi:name1"
        ],
        "name": "igroup1",
        "os_type": "string",
        "protocol": "string",
        "uuid": "1ad8544d-8cd1-91e0-9e1c-723478563412"
      },
      "logical_unit_number": 1,
      "lun": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "/vol/volume1/qtreet1/lun1",
        "node": {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          }
        }
      }
    }
  ]
}
```

```

    },
    "name": "node1",
    "uuid": "1cf8aa42-8cd1-12e0-a11c-423468563412"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"reporting_nodes": [
  {
    "_links": {
      "node": {
        "href": "/api/resourcelink"
      },
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "5ac8eb9c-4e32-dbaa-57ca-fb905976f54e"
  }
],
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
}
]
}

```

Headers

| Name | Description | Type |
|----------|---|--------|
| Location | Useful for tracking the resource location | string |

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 1254207 | The LUN is already mapped to the same initiator group. |
| 2621462 | The specified SVM does not exist or is not accessible to the caller. |
| 2621706 | Both the SVM UUID and SVM name were supplied, but don't refer to the same SVM. |
| 2621707 | No SVM was specified. Either <code>svm.name</code> or <code>svm.uuid</code> must be supplied. |
| 5374053 | The LUN is the destination of an ongoing restore operation and is inaccessible for I/O and management. Wait for the restore to complete and try the command again. |
| 5374238 | The operation is not allowed on a LUN in a Snapshot copy. |
| 5374316 | A LUN move operation is in progress on the source LUN. |
| 5374329 | A LUN of class <code>vv01</code> cannot be mapped. |
| 5374573 | A node has no interface configured with the iSCSI or Fibre Channel protocols for the specified SVM. |
| 5374574 | Multiple nodes have no interface configured with the iSCSI or Fibre Channel protocols for the specified SVM. |
| 5374581 | A node has no interface configured with the iSCSI protocol for the specified SVM. |
| 5374582 | Multiple nodes have no interface configured with the iSCSI protocol for the specified SVM. |
| 5374583 | A node has no interface configured with the Fibre Channel protocol for the specified SVM. |
| 5374584 | Multiple nodes have no interface configured with the Fibre Channel protocol for the specified SVM. |
| 5374901 | Either <code>lun.uuid</code> or <code>lun.name</code> must be provided to create a LUN map. |
| 5374902 | Either <code>igroup.uuid</code> or <code>igroup.name</code> must be provided to create a LUN map. |
| 5374920 | The cluster node specified in <code>additional_reporting_node</code> does not exist. |
| 5374921 | The cluster node name and UUID specified in <code>additional_reporting_node</code> do not refer to the same cluster node. |

| Name | Type | 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 | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

igroup

The initiator group to which the LUN is mapped. Required in POST by supplying either the `igroup.uuid`, `igroup.name`, or both.

| Name | Type | Description |
|------------------------|------------------------|---|
| _links | _links | |
| initiators | array[string] | The initiators that are members of the initiator group. |
| name | string | The name of the initiator group. Valid in POST. |
| os_type | string | The host operating system of the initiator group. All initiators in the group should be hosts of the same operating system. |
| protocol | string | The protocols supported by the initiator group. This restricts the type of initiators that can be added to the initiator group. |
| uuid | string | The unique identifier of the initiator group. Valid in POST. |

node

The LUN node.

| Name | Type | Description |
|------------------------|------------------------|--------------------------|
| _links | _links | |
| name | string | The name the LUN's node. |

| Name | Type | Description |
|------|--------|--|
| uuid | string | The unique identifier of the LUN node. |

lun

The LUN to which the initiator group is mapped. Required in POST by supplying either the `lun.uuid`, `lun.name`, or both.

| Name | Type | Description |
|------------------------|------------------------|--|
| _links | _links | |
| name | string | The fully qualified path name of the LUN composed of a "/vol" prefix, the volume name, the (optional) qtree name, and file name of the LUN. Valid in POST. |
| node | node | The LUN node. |
| uuid | string | The unique identifier of the LUN. Valid in POST. |

[_links](#)

| Name | Type | Description |
|------|----------------------|-------------|
| node | href | |
| self | href | |

reporting_nodes

A cluster node from which network paths to the LUN are advertised by ONTAP via the SAN protocols.

| Name | Type | Description |
|------------------------|------------------------|---|
| _links | _links | |
| name | string | The name of the node. Either <code>uuid</code> or <code>name</code> are required in POST. |
| uuid | string | The unique identifier of the node. Either <code>uuid</code> or <code>name</code> are required in POST. |

svm

| Name | Type | Description |
|------------------------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

lun_map

A LUN map is an association between a LUN and an initiator group. When a LUN is mapped to an initiator group, the initiator group's initiators are granted access to the LUN. The relationship between a LUN and an initiator group is many LUNs to many initiator groups.

| Name | Type | Description |
|------------------------|------------------------|---|
| _links | _links | |
| igroup | igroup | The initiator group to which the LUN is mapped. Required in POST by supplying either the <code>igroup.uuid</code> , <code>igroup.name</code> , or both. |
| logical_unit_number | integer | The logical unit number assigned to the LUN when mapped to the specified initiator group. The number is used to identify the LUN to initiators in the initiator group when communicating through Fibre Channel Protocol or iSCSI. Optional in POST; if no value is provided, ONTAP assigns the lowest available value. <ul style="list-style-type: none"> • example: 1 • Max value: 4095 • Min value: 0 • Introduced in: 9.6 • readCreate: 1 • x-nullable: true |
| lun | lun | The LUN to which the initiator group is mapped. Required in POST by supplying either the <code>lun.uuid</code> , <code>lun.name</code> , or both. |

| Name | Type | Description |
|-----------------|--|--|
| reporting_nodes | array[reporting_nodes] | <p>The cluster nodes from which network paths to the mapped LUNs are advertised via the SAN protocols as part of the Selective LUN Map (SLM) feature of ONTAP.</p> <p>When a LUN map is created, the cluster node hosting the LUN and its high availability (HA) partner are set as the default reporting node. In POST, the property <code>additional_reporting_node</code> may be used to add an additional node and its HA partner.</p> <p>For further information, see DOC /protocols/san/lun-maps/{lun.uuid}/{igroup.uuid}/reporting-nodes .</p> <ul style="list-style-type: none"> • readOnly: 1 • Introduced in: 9.10 |
| svm | svm | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| next | href | |
| self | href | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|--|-------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |

| Name | Type | Description |
|---------|--------|---|
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Delete a LUN map

DELETE /protocols/san/lun-maps/{lun.uuid}/{igroup.uuid}

Introduced In: 9.6

Deletes a LUN map.

Related ONTAP commands

- lun mapping delete

Learn more

- [DOC /protocols/san/lun-maps](#)

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 5374875 | The specified LUN does not exist or is not accessible to the caller. |
| 5374878 | The specified initiator group does not exist, is not accessible to the caller, or is not in the same SVM as the specified LUN. |
| 5374922 | The specified LUN map does not exist. |

| Name | Type | Description |
|-------|-----------------------|-------------|
| error | error | |

Example error

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

Definitions

See Definitions

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

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 LUN map

GET /protocols/san/lun-maps/{lun.uuid}/{igroup.uuid}

Introduced In: 9.6

Retrieves a LUN map.

Related ONTAP commands

- lun mapping show

Learn more

- [DOC /protocols/san/lun-maps](#)

Parameters

| Name | Type | In | Required | Description |
|--------|---------------|-------|----------|-------------------------------|
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|--------|------------------------|---|
| _links | _links | |
| igroup | igroup | The initiator group to which the LUN is mapped. Required in POST by supplying either the <code>igroup.uuid</code> , <code>igroup.name</code> , or both. |

| Name | Type | Description |
|---------------------|--|--|
| logical_unit_number | integer | <p>The logical unit number assigned to the LUN when mapped to the specified initiator group. The number is used to identify the LUN to initiators in the initiator group when communicating through Fibre Channel Protocol or iSCSI. Optional in POST; if no value is provided, ONTAP assigns the lowest available value.</p> <ul style="list-style-type: none"> • example: 1 • Max value: 4095 • Min value: 0 • Introduced in: 9.6 • readCreate: 1 • x-nullable: true |
| lun | lun | <p>The LUN to which the initiator group is mapped. Required in POST by supplying either the <code>lun.uuid</code>, <code>lun.name</code>, or both.</p> |
| reporting_nodes | array[reporting_nodes] | <p>The cluster nodes from which network paths to the mapped LUNs are advertised via the SAN protocols as part of the Selective LUN Map (SLM) feature of ONTAP.</p> <p>When a LUN map is created, the cluster node hosting the LUN and its high availability (HA) partner are set as the default reporting node. In POST, the property <code>additional_reporting_node</code> may be used to add an additional node and its HA partner.</p> <p>For further information, see DOC /protocols/san/lun-maps/{lun.uuid}/{igroup.uuid}/reporting-nodes .</p> <ul style="list-style-type: none"> • readOnly: 1 • Introduced in: 9.10 |
| svm | svm | |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "igroup": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "initiators": [
      "iqn.1998-01.com.corp.iscsi:name1"
    ],
    "name": "igroup1",
    "os_type": "string",
    "protocol": "string",
    "uuid": "1ad8544d-8cd1-91e0-9e1c-723478563412"
  },
  "logical_unit_number": 1,
  "lun": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "/vol/volume1/mtree1/lun1",
    "node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "uuid": "1cf8aa42-8cd1-12e0-a11c-423468563412"
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "reporting_nodes": [
    {
      "_links": {
        "node": {
          "href": "/api/resourcelink"
        }
      }
    }
  ]
}
```

```

    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "node1",
  "uuid": "5ac8eb9c-4e32-dbaa-57ca-fb905976f54e"
}
],
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
}

```

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 5374852 | The initiator group does not exist or is not accessible to the caller. |
| 5374875 | The LUN does not exist or is not accessible to the caller. |

| Name | Type | 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 | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

igroup

The initiator group to which the LUN is mapped. Required in POST by supplying either the `igroup.uuid`, `igroup.name`, or both.

| Name | Type | Description |
|------------|------------------------|---|
| _links | _links | |
| initiators | array[string] | The initiators that are members of the initiator group. |
| name | string | The name of the initiator group. Valid in POST. |
| os_type | string | The host operating system of the initiator group. All initiators in the group should be hosts of the same operating system. |
| protocol | string | The protocols supported by the initiator group. This restricts the type of initiators that can be added to the initiator group. |
| uuid | string | The unique identifier of the initiator group. Valid in POST. |

node

The LUN node.

| Name | Type | Description |
|--------|------------------------|--------------------------|
| _links | _links | |
| name | string | The name the LUN's node. |

| Name | Type | Description |
|------|--------|--|
| uuid | string | The unique identifier of the LUN node. |

lun

The LUN to which the initiator group is mapped. Required in POST by supplying either the `lun.uuid`, `lun.name`, or both.

| Name | Type | Description |
|------------------------|------------------------|--|
| _links | _links | |
| name | string | The fully qualified path name of the LUN composed of a "/vol" prefix, the volume name, the (optional) qtree name, and file name of the LUN. Valid in POST. |
| node | node | The LUN node. |
| uuid | string | The unique identifier of the LUN. Valid in POST. |

[_links](#)

| Name | Type | Description |
|------|----------------------|-------------|
| node | href | |
| self | href | |

reporting_nodes

A cluster node from which network paths to the LUN are advertised by ONTAP via the SAN protocols.

| Name | Type | Description |
|------------------------|------------------------|---|
| _links | _links | |
| name | string | The name of the node. Either <code>uuid</code> or <code>name</code> are required in POST. |
| uuid | string | The unique identifier of the node. Either <code>uuid</code> or <code>name</code> are required in POST. |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

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. |

Copyright information

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.