# Manage SAN LUN maps

## REST API reference

NetApp
September 12, 2025

This PDF was generated from https://docs.netapp.com/us-en/ontap-restapi-991/protocols_san_lun-maps_endpoint_overview.html on September 12, 2025. Always check docs.netapp.com for the latest.

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# 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.

The LUN map REST API allows you to create, delete, and discover LUN maps.

### 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,
"_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`
- DOC /protocols/san/lun-maps

## Parameters

| 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.uuid | string | query | False | Filter by lun.uuid |
| lun.name | string | query | False | Filter by lun.name |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| igroup.protocol | string | query | False | Filter by igroup.protocol |
| igroup.initiators | string | query | False | Filter by igroup.initiators |
| 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 |
| logical_unit_number | integer | query | False | Filter by logical_unit_number |
| 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.<br>• 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.<br>• Default value: 1<br>• Max value: 120<br>• 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[lun_map] | |

**Example response**


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "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/qtree1/lun1",
        "node": {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
```

```
          "name": "node1",
          "uuid": "1cf8aa42-8cd1-12e0-a11c-423468563412"
        },
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "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. |

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 | |

| Name | Type | Description |
|---|---|---|
| igroup | igroup | The initiator group to which the LUN is mapped. Required in POST by supplying either the `igroup.uuid`, `igroup.name`, 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.<br>• example: 1<br>• Max value: 4095<br>• Min value: 0<br>• Introduced in: 9.6<br>• readCreate: 1 |
| lun | lun | The LUN to which the initiator group is mapped. Required in POST by supplying either the `lun.uuid`, `lun.name`, or both. |
| 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 |

| Name | Type | Description |
|---|---|---|
| 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 |
|---|---|---|---|---|
| return_records | boolean | query | False | The default is false. If set to true, the records are returned.<br>• Default value: |

## Request Body

| Name | Type | Description |
|---|---|---|
| igroup | igroup | The initiator group to which the LUN is mapped. Required in POST by supplying either the `igroup.uuid`, `igroup.name`, 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.<br>• example: 1<br>• Max value: 4095<br>• Min value: 0<br>• Introduced in: 9.6<br>• readCreate: 1 |
| lun | lun | The LUN to which the initiator group is mapped. Required in POST by supplying either the `lun.uuid`, `lun.name`, or both. |
| svm | svm | |

**Example request**


```
{
  "igroup": {
    "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": {
    "name": "/vol/volume1/qtree1/lun1",
    "node": {
      "name": "node1",
      "uuid": "1cf8aa42-8cd1-12e0-a11c-423468563412"
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```


## Response

```
Status: 201, Created
```

| Name | Type | Description |
|---|---|---|
| num_records | integer | Number of records. |
| records | array[lun_map] | |

**Example response**


```
{
  "records": [
    {
      "igroup": {
        "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": {
        "name": "/vol/volume1/qtree1/lun1",
        "node": {
          "name": "node1",
          "uuid": "1cf8aa42-8cd1-12e0-a11c-423468563412"
        },
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "svm": {
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```


## Error

```
Status: Default
```

ONTAP Error Response Codes

| Error Code | Description |
|---|---|
| 1254207 | The LUN is already mapped to the same initiator group. |
| 2621462 | The specific SVM does not exist. |

| Error Code | Description |
| --- | --- |
| 2621706 | Both the SVM UUID and SVM name were supplied, but don’t refer to the same SVM. |
| 2621707 | No SVM was specified. Either `svm.name` or `svm.uuid` 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 `vvol` 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 `lun.uuid` or `lun.name` must be provided to create a LUN map. |
| 5374902 | Either `igroup.uuid` or `igroup.name` must be provided to create a LUN map. |

## Definitions

**See Definitions**

href

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

_links

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 |
|---|---|---|
| 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 |
|---|---|---|
| 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 |
|---|---|---|
| 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. |

svm

| Name | Type | Description |
|---|---|---|
| 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 |
|---|---|---|
| igroup | 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 |
|---|---|---|
| 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.<br>• example: 1<br>• Max value: 4095<br>• Min value: 0<br>• Introduced in: 9.6<br>• readCreate: 1 |
| lun | lun | The LUN to which the initiator group is mapped. Required in POST by supplying either the `lun.uuid`, `lun.name`, or both. |
| 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. |

# 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

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| lun.uuid | string | path | True | The unique identifier of the LUN. |
| igroup.uuid | string | path | True | The unique identifier of the igroup. |

## Response

```
Status: 200, Ok
```

## Error

```
Status: Default
```

ONTAP Error Response Codes

| Error Code | Description |
|---|---|
| 5374875 | The LUN was not found. |

| 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 |
|---|---|---|---|---|
| lun.uuid | string | path | True | The unique identifier of the LUN. |
| igroup.uuid | string | path | True | The unique identifier of the igroup. |
| 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 `igroup.uuid`, `igroup.name`, or both. |

| Name | Type | Description |
| --- | --- | --- |
| 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.<br>• example: 1<br>• Max value: 4095<br>• Min value: 0<br>• Introduced in: 9.6<br>• readCreate: 1 |
| lun | lun | The LUN to which the initiator group is mapped. Required in POST by supplying either the `lun.uuid`, `lun.name`, or both. |
| 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/qtree1/lun1",
    "node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "uuid": "1cf8aa42-8cd1-12e0-a11c-423468563412"
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "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 was not found. |
| 5374875 | The LUN was not found. |

| 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. |

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 |

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

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