# View lock details

## REST API reference

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# View lock details

# View lock details

## Overview

A lock is a synchronization mechanism for enforcing limits on concurrent access to files where many clients can be accessing the same file at the same time. Locks can be viewed or broken according to a wide range of query fields that are presented in the lock information definition.

It is recommended that you provide as many fields as possible to optimize query processing.

## Examples

### Retrieving locks with all fields for all SVMs

```
# The API:
GET /protocols/locks

# The call:
curl -X GET "https://<mgmt-
ip>/api/protocols/locks?return_records=true&return_timeout=15&fields=*" -H
"accept: application/json"

# The response:
{
"records": [
  {
    "svm": {
      "uuid": "5b4b6847-9ae4-11eb-8597-0050568ec154",
      "name": "vs1"
    },
    "volume": {
      "uuid": "429dcc79-9af2-11eb-b313-0050568ec154",
      "name": "test_vol1"
    },
    "interface": {
      "name": "vs1.data",
      "uuid": "6bf26e25-9ae4-11eb-8597-0050568ec154",
      "ip": {
        "address": "10.140.115.95"
      }
    },
    "path": "/test_vol1/Demo406.TXT",
    "uuid": "bf03d8b4-e145-498a-902d-b9fe5d546d18",
```

```
    "constituent": false,
    "protocol": "cifs",
    "client_address": "10.74.7.22",
    "owner_id": "feff-
020600000002000000020400000000000000000000000ffff0a4a07161053010001000000
030000006c00000000000000",
    "share_lock": {
      "mode": "read_write_deny_write_delete",
      "soft": false
    },
    "smb": {
      "connect_state": "connected",
      "open_group_id":
"71756e2325a7eb11843f005056a4731c101068450bcdffff1c2c000000000000",
      "open_type": "durable"
    },
    "state": "granted",
    "type": "share_level",
    "node": {
      "name": "user-vsim3",
      "uuid": "1f29b875-9ae3-11eb-8597-0050568ec154"
    }
  },
  {
    "svm": {
      "uuid": "5b4b6847-9ae4-11eb-8597-0050568ec154",
      "name": "vs1"
    },
    "volume": {
      "uuid": "429dcc79-9af2-11eb-b313-0050568ec154",
      "name": "test_vol1"
    },
    "interface": {
      "name": "vs1.data",
      "uuid": "6bf26e25-9ae4-11eb-8597-0050568ec154",
      "ip": {
        "address": "10.140.115.95"
      }
    },
    "path": "/test_vol1/Demo406.TXT",
    "uuid": "0c33d18d-dcbc-492a-81b3-4c5740c46172",
    "constituent": false,
    "protocol": "cifs",
    "client_address": "10.74.7.22",
    "oplock_level": "batch",
    "owner_id": "feff-
```

```
020600000002000000020400000000000000000000000fffff0a4a0716105301000100000
030000006c00000000000000",
    "smb": {
      "connect_state": "connected",
      "open_group_id":
"71756e2325a7eb11843f005056a4731c101068450bcdffff1c2c000000000000"
    },
    "state": "granted",
    "type": "op_lock",
    "node": {
      "name": "user-vsim3",
      "uuid": "1f29b875-9ae3-11eb-8597-0050568ec154"
    }
  }
],
"num_records": 2
}
```

#### Retrieving locks of a specific volume

```
# The API:
GET /protocols/locks

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/locks?volume.uuid=429dcc79-
9af2-11eb-b313-
0050568ec154&return_records=true&return_timeout=15&fields=*" -H "accept:
application/json"

# The response:
{
"records": [
  {
    "svm": {
      "uuid": "5b4b6847-9ae4-11eb-8597-0050568ec154",
      "name": "vs1"
    },
    "volume": {
      "uuid": "429dcc79-9af2-11eb-b313-0050568ec154",
      "name": "test_vol1"
    },
    "interface": {
```

```
      "name": "vs1.data",
      "uuid": "6bf26e25-9ae4-11eb-8597-0050568ec154"
    },
    "path": "/test_vol1/Demo408.TXT",
    "uuid": "be1cdf00-37f1-4477-b6d0-bba8c4fa8c67"
  },
  {
    "svm": {
      "uuid": "5b4b6847-9ae4-11eb-8597-0050568ec154",
      "name": "vs1"
    },
    "volume": {
      "uuid": "429dcc79-9af2-11eb-b313-0050568ec154",
      "name": "test_vol1"
    },
    "interface": {
      "name": "vs1.data",
      "uuid": "6bf26e25-9ae4-11eb-8597-0050568ec154"
    },
    "path": "/test_vol1/Demo408.TXT",
    "uuid": "393cc06e-8b37-4f49-b09a-74d1eef79368"
  }
],
"num_records": 2
}
```

#### Retrieving the lock for a specific UUID

```
# The API:
GET /protocols/locks/{uuid}

# The call:
curl  -X GET "https://<mgmt-ip>/api/protocols/locks/be1cdf00-37f1-4477-
b6d0-bba8c4fa8c67" -H "accept: application/json"

# The response:
{
"svm": {
  "uuid": "5b4b6847-9ae4-11eb-8597-0050568ec154",
  "name": "vs1"
},
"volume": {
```

```
  "uuid": "429dcc79-9af2-11eb-b313-0050568ec154",
  "name": "test_vol1"
},
"interface": {
  "name": "vs1.data",
  "uuid": "6bf26e25-9ae4-11eb-8597-0050568ec154",
  "ip": {
    "address": "10.140.115.95"
  }
},
"path": "/test_vol1/Demo406.TXT",
"uuid": "be1cdf00-37f1-4477-b6d0-bba8c4fa8c67",
"constituent": false,
"protocol": "cifs",
"client_address": "10.74.7.22",
"owner_id": "feff-
020600000002000000020400000000000000000000000ffff0a4a07161053010001000000
030000006c00000000000000",
"share_lock": {
  "mode": "read_write_deny_write_delete",
  "soft": false
},
"smb": {
  "connect_state": "connected",
  "open_group_id":
"71756e2325a7eb11843f005056a4731c101068450bcdffff1c2c000000000000",
  "open_type": "durable"
},
"state": "granted",
"type": "share_level",
"node": {
  "name": "user-vsim3",
  "uuid": "1f29b875-9ae3-11eb-8597-0050568ec154"
}
}
```


### Deleting the lock for a specific UUID

```
# The API:
DELETE /protocols/locks/{uuid}

# The call:
curl  -X DELETE "https://<mgmt-ip>/api/protocols/locks/be1cdf00-37f1-4477-
b6d0-bba8c4fa8c67" -H "accept: application/json"
```

#### Deleting all locks for a specific protocol

```
# The API:
DELETE /protocols/locks/{uuid}

# The call:
curl  -X DELETE "https://<mgmt-ip>/api/protocols/locks?protocol=cifs" -H
"accept: application/json"
```

# Retrieve lock details

GET `/protocols/locks`

**Introduced In:** 9.10

Retrieves locks details.

## Related ONTAP commands

- `vserver locks show`

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| volume.name | string | query | False | Filter by volume.name |
| volume.uuid | string | query | False | Filter by volume.uuid |
| constituent | boolean | query | False | Filter by constituent |
| uuid | string | query | False | Filter by uuid |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| protocol | string | query | False | Filter by protocol |
| smb.connect_state | string | query | False | Filter by smb.connect_state |
| smb.open_type | string | query | False | Filter by smb.open_type |
| smb.open_group_id | string | query | False | Filter by smb.open_group_id |
| share_lock.mode | string | query | False | Filter by share_lock.mode |
| share_lock.soft | boolean | query | False | Filter by share_lock.soft |
| byte_lock.super | boolean | query | False | Filter by byte_lock.super |
| byte_lock.mandatory | boolean | query | False | Filter by byte_lock.mandatory |
| byte_lock.offset | integer | query | False | Filter by byte_lock.offset |
| byte_lock.soft | boolean | query | False | Filter by byte_lock.soft |
| byte_lock.exclusive | boolean | query | False | Filter by byte_lock.exclusive |
| byte_lock.length | integer | query | False | Filter by byte_lock.length |
| interface.ip.address | string | query | False | Filter by interface.ip.address |
| interface.name | string | query | False | Filter by interface.name |
| interface.uuid | string | query | False | Filter by interface.uuid |
| state | string | query | False | Filter by state |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| client_address | string | query | False | Filter by client_address |
| node.name | string | query | False | Filter by node.name |
| node.uuid | string | query | False | Filter by node.uuid |
| type | string | query | False | Filter by type |
| path | string | query | False | Filter by path |
| delegation | string | query | False | Filter by delegation |
| oplock_level | string | query | False | Filter by oplock_level |
| svm.name | string | query | False | Filter by svm.name |
| svm.uuid | string | query | False | Filter by svm.uuid |
| owner_id | string | query | False | Filter by owner_id |
| 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: 15<br>• Max value: 120<br>• Min value: 0 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |
| desc] direction. Default direction is 'asc' for ascending. | fields | array[string] | query | False |

## Response

```
Status: 200, Ok
```

| Name | Type | Description |
|---|---|---|
| _links | collection_links | |
| num_records | integer | Number of records. |
| records | array[client_lock] | |

**Example response**


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "byte_lock": {
        "length": "10",
        "offset": "100"
      },
      "client_address": "0.0.0.0",
      "delegation": "string",
      "interface": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "ip": {
          "address": "10.10.10.7"
        },
        "name": "lif1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "oplock_level": "string",
      "owner_id": "string",
      "path": "string",
      "protocol": "string",
      "share_lock": {
```

```
        "mode": "string"
      },
      "smb": {
        "connect_state": "string",
        "open_group_id": "string",
        "open_type": "string"
      },
      "state": "string",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "type": "string",
      "uuid": "ceeac1b4-8646-4c76-a054-1c96e87594aa",
      "volume": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "volume1",
        "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```


## Error

```
Status: Default, Unexpected error_response
```

| 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 | |

collection_links

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

byte_lock

| Name | Type | Description |
|---|---|---|
| exclusive | boolean | Indicates whether it is an exclusive bytelock. |
| length | integer | Length of the bytelock starting from the offset. |
| mandatory | boolean | Indicates whether or not the bytelock is mandatory. |
| offset | integer | Starting offset for a bytelock. |
| soft | boolean | Indicates whether it is a soft bytelock. |
| super | boolean | Indicates whether it is a super bytelock. |

_links

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

ip

IP information

| Name | Type | Description |
|---|---|---|
| address | string | IPv4 or IPv6 address |

interface

A network interface. Either UUID or name may be supplied on input.

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| ip | ip | IP information |
| name | string | The name of the interface. If only the name is provided, the SVM scope must be provided by the object this object is embedded in. |
| uuid | string | The UUID that uniquely identifies the interface. |

node

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | |
| uuid | string | |

share_lock

| Name | Type | Description |
|---|---|---|
| mode | string | Types of share lock modes. |
| soft | boolean | Indicates whether it is a soft share lock. |

smb

| Name | Type | Description |
|---|---|---|
| connect_state | string | SMB connection state. |
| open_group_id | string | SMB open group ID. |
| open_type | string | SMB open type. |

svm

SVM, applies only to SVM-scoped objects.

| 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. |

volume

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | The name of the volume. This field cannot be specified in a PATCH method. |
| uuid | string | Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move.<br>• example: 028baa66-41bd-11e9-81d5-00a0986138f7<br>• Introduced in: 9.6<br>• x-nullable: true |

client_lock

This object represents locks on a volume.

| Name | Type | Description |
|---|---|---|
| byte_lock | byte_lock | |
| client_address | string | IP address of the client holding the lock. |
| constituent | boolean | Indicate if volume is constituent or not. |
| delegation | string | Type of delegation. |

| Name | Type | Description |
|---|---|---|
| interface | interface | A network interface. Either UUID or name may be supplied on input. |
| node | node | |
| oplock_level | string | The oplock level determines which operations the client may cache locally. |
| owner_id | string | Owner ID. |
| path | string | Object path |
| protocol | string | Type of lock protocol. |
| share_lock | share_lock | |
| smb | smb | |
| state | string | State of lock. |
| svm | svm | SVM, applies only to SVM-scoped objects. |
| type | string | Type of lock. |
| uuid | string | Lock UUID |
| volume | volume | |

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 |

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

# Delete locks for a parameter

DELETE `/protocols/locks/{uuid}`

**Introduced In:** 9.10

Deletes locks of given parameter.

## Related ONTAP commands

- `vserver locks break`

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| uuid | string | path | True | Lock ID |

## Response

```
Status: 200, Ok
```

## 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

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 the lock for a specific UUID

GET `/protocols/locks/{uuid}`

**Introduced In:** 9.10

Retrieves the lock for a specific UUID.

## Related ONTAP commands

- `vserver locks show`

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| uuid | string | path | True | Lock ID |
| fields | array[string] | query | False | Specify the fields to return. |

## Response

```
Status: 200, Ok
```

| Name | Type | Description |
|---|---|---|
| byte_lock | byte_lock | |
| client_address | string | IP address of the client holding the lock. |
| constituent | boolean | Indicate if volume is constituent or not. |
| delegation | string | Type of delegation. |
| interface | interface | A network interface. Either UUID or name may be supplied on input. |
| node | node | |
| oplock_level | string | The oplock level determines which operations the client may cache locally. |
| owner_id | string | Owner ID. |

| Name | Type | Description |
| --- | --- | --- |
| path | string | Object path |
| protocol | string | Type of lock protocol. |
| share_lock | share_lock | |
| smb | smb | |
| state | string | State of lock. |
| svm | svm | SVM, applies only to SVM-scoped objects. |
| type | string | Type of lock. |
| uuid | string | Lock UUID |
| volume | volume | |

**Example response**


```
{
  "byte_lock": {
    "length": "10",
    "offset": "100"
  },
  "client_address": "0.0.0.0",
  "delegation": "string",
  "interface": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ip": {
      "address": "10.10.10.7"
    },
    "name": "lif1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "oplock_level": "string",
  "owner_id": "string",
  "path": "string",
  "protocol": "string",
  "share_lock": {
    "mode": "string"
  },
  "smb": {
    "connect_state": "string",
    "open_group_id": "string",
    "open_type": "string"
  },
  "state": "string",
  "svm": {
    "_links": {
      "self": {
```

```
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "string",
  "uuid": "ceeac1b4-8646-4c76-a054-1c96e87594aa",
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-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**

byte_lock

| Name | Type | Description |
|---|---|---|
| exclusive | boolean | Indicates whether it is an exclusive bytelock. |
| length | integer | Length of the bytelock starting from the offset. |
| mandatory | boolean | Indicates whether or not the bytelock is mandatory. |
| offset | integer | Starting offset for a bytelock. |
| soft | boolean | Indicates whether it is a soft bytelock. |
| super | boolean | Indicates whether it is a super bytelock. |

href

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

_links

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

ip

IP information

| Name | Type | Description |
|---|---|---|
| address | string | IPv4 or IPv6 address |

interface

A network interface. Either UUID or name may be supplied on input.

| Name | Type | Description |
|---|---|---|
| _links | _links | |

| Name | Type | Description |
|---|---|---|
| ip | ip | IP information |
| name | string | The name of the interface. If only the name is provided, the SVM scope must be provided by the object this object is embedded in. |
| uuid | string | The UUID that uniquely identifies the interface. |

node

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | |
| uuid | string | |

share_lock

| Name | Type | Description |
|---|---|---|
| mode | string | Types of share lock modes. |
| soft | boolean | Indicates whether it is a soft share lock. |

smb

| Name | Type | Description |
|---|---|---|
| connect_state | string | SMB connection state. |
| open_group_id | string | SMB open group ID. |
| open_type | string | SMB open type. |

svm

SVM, applies only to SVM-scoped objects.

| Name | Type | Description |
|---|---|---|
| _links | _links | |

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

volume

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | The name of the volume. This field cannot be specified in a PATCH method. |
| uuid | string | Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move.<br>• example: 028baa66-41bd-11e9-81d5-00a0986138f7<br>• Introduced in: 9.6<br>• x-nullable: true |

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 |

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

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