



## **View NFS connected clients**

REST API reference

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# View NFS connected clients

## Protocols NFS connected-clients endpoint overview

### Overview

ONTAP connected clients show functionality is mainly used to provide a list of currently connected NFS clients. It also provides a potential list of other NFS clients that can be connected but are currently idle and a list of recently unmounted clients. If a client connected to the NFS server is idle for longer than the maximum cache idle time, then the entry will be removed. By default, the maximum cache idle time is 48 hours.

The following are details of the fields retrieved for the Connected Clients GET API:

node.name: The node name hosting this record; basically the node hosting the "server\_ip". node.uuid: The node UUID hosting this record; basically the node hosting the "server\_ip". svm.name: The svm name to which the "server\_ip" belongs to. svm.uuid: The svm uuid to which the "server\_ip" belongs to. server\_ip: All clients that are connected to this interface are displayed in rows. client\_ip: The IP address of the client that is connected to the interface. volume.name: The name of the volume the client is accessing. volume.uuid: The UUID of the volume the client is accessing. This field is expensive field and will be fetched in advance privilege level. protocol: The NFS protocol version over which client is accessing the volume. export\_policy.id: The export policy ID associated with the volume. export\_policy.name: The export policy name associated with the volume. idle\_duration: The time elapsed since the last request was sent by the client for this volume. local\_request\_count: A counter that tracks requests that are sent to the volume with fast-path to local node. remote\_request\_count: A counter that tracks requests that are sent to the volume with slow-path to remote node.

### Example

#### Retrieves connected client information

```
# The API:  
GET /protocols/nfs/connected-clients  
  
# The call:  
curl -X GET "https://<cluster-mgmt-ip>/api/protocols/nfs/connected-  
clients?return_timeout=15&return_records=true" -H "accept:  
application/json"  
  
# The response:  
{  
  "records": [  
    {  
      "svm": {  
        "uuid": "c642db55-b8d0-11e9-9ad1-0050568e8480",  
        "name": "vs1"  
      },  
      "node": {  
        "uuid": "cc282893-b82f-11e9-a3ad-0050568e8480",  
        "name": "node1"  
      }  
    }  
  ]  
}
```

```

        "name": "vsim1"
    },
    "server_ip": "10.140.72.214",
    "client_ip": "10.140.137.57",
    "volume": {
        "name": "rvol1",
        "uuid": "c6bbc6f2-b8d0-11e9-9ad1-0050568e8480"
    },
    "protocol": "nfs4"
},
{
    "svm": {
        "uuid": "c642db55-b8d0-11e9-9ad1-0050568e8480",
        "name": "vs1"
    },
    "node": {
        "uuid": "cc282893-b82f-11e9-a3ad-0050568e8480",
        "name": "vsim1"
    },
    "server_ip": "10.140.72.214",
    "client_ip": "10.140.137.57",
    "volume": {
        "name": "vol1",
        "uuid": "d28d1999-b8d0-11e9-9ad1-0050568e8480"
    },
    "protocol": "nfs3"
},
{
    "svm": {
        "uuid": "c642db55-b8d0-11e9-9ad1-0050568e8480",
        "name": "vs1"
    },
    "node": {
        "uuid": "cc282893-b82f-11e9-a3ad-0050568e8480",
        "name": "vsim1"
    },
    "server_ip": "10.140.72.214",
    "client_ip": "10.140.137.57",
    "volume": {
        "name": "vol1",
        "uuid": "d28d1999-b8d0-11e9-9ad1-0050568e8480"
    },
    "protocol": "nfs4"
},
{
    "num_records": 3
}

```

# Retrieve NFS configuration for an SVM

GET /protocols/nfs/connected-clients

**Introduced In:** 9.7

Retrieves the NFS configuration of SVMs.

## Expensive properties

`export_policy.id` is expensive field. It is not included by default in GET results and must be explicitly requested using the `fields` query parameter. See [Requesting specific fields](#) to learn more.

- `export_policy.id`

## Parameters

Name	Type	In	Required	Description
client_ip	string	query	False	Filter by client_ip
node.uuid	string	query	False	Filter by node.uuid
node.name	string	query	False	Filter by node.name
idle_duration	string	query	False	Filter by idle_duration
remote_request_count	integer	query	False	Filter by remote_request_count
export_policy.id	integer	query	False	Filter by export_policy.id <ul style="list-style-type: none"><li>• Introduced in: 9.9</li></ul>
export_policy.name	string	query	False	Filter by export_policy.name <ul style="list-style-type: none"><li>• Introduced in: 9.9</li></ul>
volume.name	string	query	False	Filter by volume.name
volume.uuid	string	query	False	Filter by volume.uuid

Name	Type	In	Required	Description
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
local_request_count	integer	query	False	Filter by local_request_count
protocol	string	query	False	Filter by protocol
server_ip	string	query	False	Filter by server_ip
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
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"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
return_records	boolean	query	False	<p>The default is true for GET calls. When set to false, only the number of records is returned.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>
order_by	array[string]	query	False	Order results by specified fields and optional [asc]

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">nfs_clients</a> ]	

## Example response

```
{  
  "_links": {  
    "next": {  
      "href": "/api/resourcelink"  
    },  
    "self": {  
      "href": "/api/resourcelink"  
    }  
  },  
  "records": [  
    {  
      "_links": {  
        "self": {  
          "href": "/api/resourcelink"  
        }  
      },  
      "client_ip": "string",  
      "export_policy": {  
        "_links": {  
          "self": {  
            "href": "/api/resourcelink"  
          }  
        },  
        "id": 100,  
        "name": "default"  
      },  
      "idle_duration": "P4DT84H30M5S",  
      "node": {  
        "_links": {  
          "self": {  
            "href": "/api/resourcelink"  
          }  
        },  
        "name": "node1",  
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"  
      },  
      "protocol": "nfs3",  
      "server_ip": "string",  
      "svm": {  
        "_links": {  
          "self": {  
            "href": "/api/resourcelink"  
          }  
        },  
      },  
    }  
  ]  
}
```

```

        "name": "svml1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "volume": {
        "_links": {
            "self": {
                "href": "/api/resourcelink"
            }
        },
        "name": "volume1",
        "uuid": "028baa66-41bd-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	

export\_policy

Export Policy

Name	Type	Description
_links	_links	
id	integer	
name	string	

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

svm

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

volume

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the volume.
uuid	string	<p>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.</p> <ul style="list-style-type: none"> <li>example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> <li>Introduced in: 9.6</li> </ul>

## nfs\_clients

Name	Type	Description
_links	<a href="#">_links</a>	
client_ip	string	Specifies IP address of the client.
export_policy	<a href="#">export_policy</a>	Export Policy
idle_duration	string	Specifies an ISO-8601 format of date and time to retrieve the idle time duration in hours, minutes, and seconds format.
local_request_count	integer	A counter that tracks requests that are sent to the volume with fast-path to local node.
node	<a href="#">node</a>	
protocol	string	<p>The NFS protocol version over which client is accessing the volume. The following values are supported:</p> <ul style="list-style-type: none"> <li>nfs - All NFS versions are considered</li> <li>nfs3 - NFS version 3 protocol</li> <li>nfs4 - NFS version 4 protocol</li> <li>nfs4.1 - NFS version 4 minor version 1 protocol</li> </ul>

Name	Type	Description
remote_request_count	integer	A counter that tracks requests that are sent to the volume with slow-path to remote node.
server_ip	string	Specifies the IP address of the server.
svm	svm	
volume	volume	

#### 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.

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