



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. trunking_enabled: Flag that indicates the trunking status for the specified SVM connection. True indicates that the trunking feature is enabled while false indicates that the trunking feature is disabled.

Related CLI command

The CLI command for ONTAP connected clients is: "nfs connected-clients show" cluster-1::*> nfs connected-clients show Node: node1 Vserver: vs1 Data-Ip: xxx.xxx.xxx.xxx Local Remote Client-Ip Protocol Volume Policy Idle-Time Reqs Reqs Trunking -----

xxx.xxx.xxx.xxx nfs4.1 root_vol pol1 6s 9 0 false xxx.xxx.xxx.xxx nfs3 vol1 pol1 56s 7 0 false xxx.xxx.xxx.xxx nfs4.1 vol1 pol1 6s 7 0 false 3 entries were displayed.

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": "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 the 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
node.uuid	string	query	False	Filter by node.uuid
node.name	string	query	False	Filter by node.name
protocol	string	query	False	Filter by protocol
local_request_count	integer	query	False	Filter by local_request_count
export_policy.name	string	query	False	Filter by export_policy.name • Introduced in: 9.9

Name	Type	In	Required	Description
export_policy.id	integer	query	False	Filter by export_policy.id • Introduced in: 9.9
server_ip	string	query	False	Filter by server_ip
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
idle_duration	string	query	False	Filter by idle_duration
remote_request_count	integer	query	False	Filter by remote_request_count
trunking_enabled	boolean	query	False	Filter by trunking_enabled • Introduced in: 9.12
volume.uuid	string	query	False	Filter by volume.uuid
volume.name	string	query	False	Filter by volume.name
client_ip	string	query	False	Filter by client_ip
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.

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. • Default value: 1 • Max value: 120 • Min value: 0
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
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[nfs_clients]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "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": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
]
}

```

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
917887	The first character of the volume name must be a letter or underscore.
917888	Invalid character in volume name. It can have '_' and alphanumeric characters.

Name	Type	Description
error	returned_error	

Example error

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

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

export_policy

Export Policy

Name	Type	Description
_links	_links	
id	integer	
name	string	

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

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.

Name	Type	Description
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. • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6 • x-nullable: true

nfs_clients

Name	Type	Description
_links	_links	
client_ip	string	Specifies IP address of the client.
export_policy	export_policy	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	node	

Name	Type	Description
protocol	string	The NFS protocol version over which client is accessing the volume. The following values are supported: • nfs - All NFS versions are considered • nfs3 - NFS version 3 protocol • nfs4 - NFS version 4 protocol • nfs4.1 - NFS version 4 minor version 1 protocol • nfs4.2 - NFS version 4 minor version 2 protocol
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	SVM, applies only to SVM-scoped objects.
trunking_enabled	boolean	Flag that indicates the trunking status for the specified SVM connection. True indicates that the trunking feature is enabled while false indicates that the trunking feature is disabled.
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

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

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