



# **network connections commands**

## ONTAP commands

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# network connections commands

## network connections active show-clients

Show a count of the active connections by client

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

### Description

The `network connections active show-clients` command displays information about client connections, including the client's IP address and the number of client connections.



The results of this command set are refreshed independently every 30 seconds and might not reflect the immediate state of the system.

### Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node**

Use this parameter to display information only about the connections on the node you specify.

**[-vserver <vserver>] - Vserver**

This parameter is used by the system to break down the output per vserver.

**[-remote-address <Remote IP>] - Remote IP Address**

Use this parameter to display information only about the connections that use the remote IP address you specify.

**[-count <integer>] - Client Count**

Use this parameter to only clients with the number of active client connections you specify.

### Examples

The following example displays information about active client connections:

```
cluster1::> network connections active show-clients
Node      Vserver Name      Client IP Address      Count
-----
node0     vs1                192.0.2.253           1
         vs2                192.0.2.252           2
         vs3                192.0.2.251           5
node1     vs1                192.0.2.250           1
         vs2                192.0.2.252           3
         vs2                customer.example.com    4
```

## network connections active show-lifs

Show a count of the active connections by logical interface

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

### Description

The `network connections active show-lifs` command displays the number of active connections on each logical interface, organized by node and Vserver.



The results of this command set are refreshed independently every 30 seconds and might not reflect the immediate state of the system.

### Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node**

Use this parameter to display information only about the connections on the node you specify.

**[-vserver <vserver>] - Vserver**

Use this parameter to display information only about the connections that are using the node or Vserver you specify.

**[-lif-name <lif-name>] - Logical Interface Name**

Use this parameter to display information only about the connections that are using the logical interface you specify.

**[-count <integer>] - Client Count**

Use this parameter to display only logical interfaces with the number of active client connections you specify.

## `[-blocked-count <integer>] - (DEPRECATED)-Load Balancing Blocking Count`



This parameter has been deprecated and may be removed in a future version of Data ONTAP.

Use this parameter to display information only about data logical interfaces blocked from migrating and the connection that is blocking it.

## Examples

The following example displays information about the servers and logical interfaces being used by all active connections:

```
cluster1::> network connections active show-lifs
Node          Vserver Name  Interface Name  Count
-----
node0
  vs0         datalif1      3
  vs0         cluslif1      6
  vs0         cluslif2      5
node1
  vs0         datalif2      3
  vs0         cluslif1      3
  vs0         cluslif2      5
node2
  vs1         datalif2      1
  vs1         cluslif1      5
  vs1         cluslif2      3
node3
  vs1         datalif1      1
  vs1         cluslif1      2
  vs1         cluslif2      1
```

## network connections active show-protocols

Show a count of the active connections by protocol

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

## Description

The `network connections active show-protocols` command displays the number of active connections per protocol, organized by node.



The results of this command set are refreshed independently every 30 seconds and might not reflect the immediate state of the system.

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>`, ... parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node**

Use this parameter to display information only about the connections on the node you specify.

**[-vserver <vserver>] - Vserver**

This parameter is used by the system to break down the output per vservers.

**[-proto {UDP|TCP}] - Protocol**

Use this parameter to display information only about the connections that use the network protocol you specify. Possible values include `tcp` (TCP), `udp` (UDP), and `NA` (not applicable).

**[-count <integer>] - Client Count**

Use this parameter to display only protocols with the number of active client connections you specify.

## Examples

The following example displays information about all network protocols being used by active connections:

```
cluster1::> network connections active show-protocols
Node      Vserver Name      Protocol      Count
-----  -
node0
          vs1              UDP           19
          vs1              TCP           11
          vs2              UDP           17
node1
          vs1              UDP           14
          vs2              TCP           10
```

## network connections active show-services

Show a count of the active connections by service

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

### Description

The `network connections active show-services` command displays the number of active connections by protocol service, organized by node.



The results of this command set are refreshed independently every 30 seconds and might not reflect the immediate state of the system.

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>`, ... parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node**

Use this parameter to display information only about the connections on the node you specify.

**[-vserver <vserver>] - Vserver**

This parameter is used by the system to break down the output per vservers

**[-service <protocol service>] - Protocol Service**

Use this parameter to display information only about the connections that use the protocol service you specify. Possible values include: `nfs`, `iscsi`, and `loopback`.

**[-count <integer>] - Client Count**

Use this parameter to display information only about protocol services with the number of active client connections you specify.

## Examples

The following example displays information about all protocol services being used by active connections:

```
cluster1::> network connections active show-services
Node          Vserver Name      Service          Count
-----
node0
    vs1         mount              3
    vs1         nfs                 14
    vs1         nlm_v4             4
    vs1         cifs_srv           3
    vs1         port_map           18
    vs2         rclopcp            27
node1
    vs1         nfs                 5
    vs2         rclopcp            12
    vs2         nfs                 4
    vs2         port_map           8
```

# network connections active show

Show the active connections in this cluster

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

## Description

The `network connections active show` command displays information about active network connections.



The results of this command set are refreshed independently every 30 seconds and might not reflect the immediate state of the system.

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-print-ip-addresses ]**

Print IP addresses for remote hosts — do not attempt to resolve the addresses to a hostname.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node**

Selects the connections that match this parameter value.

**[-cid <Cid>] - Connection ID**

Selects the connections that match this parameter value.

**[-vserver <vserver>] - Vserver**

Selects the connections that match this parameter value.

**[-lif-name <lif-name>] - Logical Interface Name**

Selects the connections that match this parameter value.

**[-local-address <IP Address>] - Local IP address**

Selects the connections that match this parameter value.

**[-local-port <integer>] - Local Port**

Selects the connections that match this parameter value.

**[-remote-ip <InetAddress>] - Remote IP Address**

Selects the connections that match this parameter value.

**[-remote-host <Remote IP>] - Remote Host**

Selects the connections that match this parameter value.

**[-remote-port <integer>] - Remote Port**

Selects the connections that match this parameter value.

**[-proto {UDP|TCP}] - Protocol**

Selects the connections that match this parameter value. Possible values are tcp (TCP), udp (UDP), and NA (not applicable).

**[-lifid <integer>] - Logical Interface ID**

Selects the connections that match this parameter value.

**[-service <protocol service>] - Protocol Service**

Selects the connections that match this parameter value. Possible values include: nfs, iscsi, and loopback.

**[-lru {yes|no}] - Least Recently Used**

Selects the connections that match this parameter value.

**[-blocks-lb {true|false}] - Connection Blocks Load Balance Migrate**

Selects the logical interfaces that are blocked (true) or not blocked (false) from migrating due to an active client connection.

## Examples

The following example displays information about active network connections for the node named node0:

```

cluster1::> network connections active show node -node0

Vserver Interface          Remote
Name      Name:Local Port  IP Address:Port  Protocol/Service
-----
node0     cluslif1:7070    192.0.2.253:48621 UDP/rclopcp
node0     cluslif1:7070    192.0.2.253:48622 UDP/rclopcp
node0     cluslif2:7070    192.0.2.252:48644 UDP/rclopcp
node0     cluslif2:7070    192.0.2.250:48646 UDP/rclopcp
node0     cluslif1:7070    192.0.2.245:48621 UDP/rclopcp
node0     cluslif1:7070    192.0.2.245:48622 UDP/rclopcp
node0     cluslif2:7070    192.0.2.251:48644 UDP/rclopcp
node0     cluslif2:7070    192.0.2.251:48646 UDP/rclopcp
node0     cluslif1:7070    192.0.2.248:48621 UDP/rclopcp
node0     cluslif1:7070    192.0.2.246:48622 UDP/rclopcp
node0     cluslif2:7070    192.0.2.252:48644 UDP/rclopcp
node0     cluslif2:7070    192.0.2.250:48646 UDP/rclopcp
node0     cluslif1:7070    192.0.2.254:48621 UDP/rclopcp
node0     cluslif1:7070    192.0.2.253:48622 UDP/rclopcp
[...]
```

# network connections listening show

Show the listening connections in this cluster

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

## Description

The `network connections listening show` command displays information about network connections that are in an open and listening state.

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>`, ... parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node**

Selects the listening connections that match this parameter value.

**[-mgmt-cid <integer>] - Management Connection ID**

Selects the listening connections that match this parameter value.

**[-vserver <vserver>] - Vserver**

Selects the listening connections that match this parameter value.

**[-cid <integer>] - System Connection ID**

Selects the listening connections that match this parameter value.

**[-lif-name <lif-name>] - Logical Interface Name**

Selects the listening connections that match this parameter value.

**[-local-address <IP Address>] - Local IP Address**

Selects the listening connections that match this parameter value.

**[-local-port <integer>] - Local Port**

Selects the listening connections that match this parameter value.

**[-remote-ip <InetAddress>] - Remote IP Address**

Selects the listening connections that match this parameter value.

**[-remote-host <Remote IP>] - Remote Host**

Selects the listening connections that match this parameter value.

**[-remote-port <integer>] - Remote Port**

Selects the listening connections that match this parameter value.

**[-proto {UDP|TCP}] - Protocol**

Selects the listening connections that match this parameter value. Possible values include tcp (TCP), udp (UDP), and NA (not applicable).

**[-lifid <integer>] - Logical Interface ID**

Selects the listening connections that match this parameter value.

**[-service <protocol service>] - Protocol Service**

Selects the listening connections that match this parameter value. Possible values include: nfs, iscsi, and loopback.

**[-lru {yes|no}] - Least Recently Used**

Selects the listening connections that match this parameter value.

## Examples

The following example displays information about all listening network connections:

```
cluster1::> network connections listening show
Vserver Name Interface Name:Local Port Protocol/Service
-----
node0        cluslif1:7700          UDP/rclopcp
node0        cluslif2:7700          UDP/rclopcp
node1        cluslif1:7700          UDP/rclopcp
node1        cluslif2:7700          UDP/rclopcp
node2        cluslif1:7700          UDP/rclopcp
node2        cluslif2:7700          UDP/rclopcp
node3        cluslif1:7700          UDP/rclopcp
node3        cluslif2:7700          UDP/rclopcp
8 entries were displayed.
```

The following example displays detailed information about listening network connections for the node named node0:

```
cluster1::> network connections listening show -node node0
    Node: node0
Management Connection Id: 0
    System Connection Id: 0
        Vserver: vs0
Logical Interface Name: datalif1
    Local IP address: 192.0.2.130
        Local Port: 111
    Remote IP address:
        Remote Port: 0
        Protocol: UDP
Logical Interface Id: 1029
    Protocol Service: port_map
    least recently used: yes
        Node: node0
Management Connection Id: 1
    System Connection Id: 0
        Server: vs0
Logical Interface Name: datalif2
    Local IP address: 192.0.2.131
        Local Port: 111
    Remote IP address:
        Remote Port: 0
        Protocol: UDP
Logical Interface Id: 1030
    Protocol Service: port_map
    least recently used: yes
```

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