



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 vservers.

[-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 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|TLS}] - 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|TLS}] - 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 Name	Interface Name:Local Port	Remote 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|TLS}`] - 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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