



# **network port commands**

## **ONTAP 9.5 commands**

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# network port commands

## network port delete

Delete a network port

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

The `network port delete` command deletes a network port that is no longer physically present on the storage system.

### Parameters

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

This specifies the node on which the port is located.

**-port {<netport>|<ifgrp>} - Port**

This specifies the port to delete.

### Examples

The following example deletes port `e0c` from a node named `node0`. The command works only when the port does not physically exist on the storage system.

```
cluster1::*> network port delete -node node0 -port e0c
```

## network port modify

Modify network port attributes

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

### Description

The `network port modify` command enables you to change the maximum transmission unit (MTU) setting, autonegotiation setting, administrative duplex mode, and administrative speed of a specified network port.

The MTU of ports that belong to broadcast-domains must be updated through the `broadcast-domain modify` command.

Modification of a port's IPspace will only work before a node is added to a cluster, when the cluster version is below Data ONTAP 8.3, or when the node is offline. To change the IPspace of a port once the node is in a Data ONTAP 8.3 cluster, the port should be added to a broadcast-domain that belongs to that IPspace.

## Parameters

### **-node {<nodename>|local} - Node**

Use this parameter to specify the node on which the port is located.

### **-port {<netport>|<ifgrp>} - Port**

Use this parameter to specify the port that you want to modify.

### **[-mtu <integer>] - MTU**

The port's MTU setting. The default setting for ports in the "Cluster" IPspace is 9000 bytes. All other ports use a default value of 1500 bytes.

### **[-autonegotiate-admin {true|false}] - Auto-Negotiation Administrative**

Whether the port uses Ethernet autonegotiation to determine the highest speed and duplex mode that the port and its endpoint can support. The default setting when you create a port is `true`.

### **[-duplex-admin {auto|half|full}] - Duplex Mode Administrative**

The administrative setting for the port's duplex mode. This is the duplex mode that you prefer the port to use. Depending on network limitations, the operational value can be different from the administrative setting. The default setting when you create a port is `full`.

### **[-speed-admin {auto|10|100|1000|10000|100000|40000|25000}] - Speed Administrative**

The administrative speed setting, in megabits per second. This is the speed setting that you prefer the port to use. Depending on network limitations, the operational value can be lower than the administrative setting.

### **[-flowcontrol-admin {none|receive|send|full}] - Flow Control Administrative**

The administrative flow control setting of the port. This is the flow control setting that you prefer the port to use. Depending on network and port limitations, the operational value can be different from the administrative setting.

### **[-up-admin {true|false}] - Up Administrative**

The administrative state of the port. If set to `true`, the port is used if it is operational. If set to `false`, the port is configured down.

### **[-ipspace <IPspace>] - IPspace Name**

Use this parameter to specify the IPspace the network port is assigned to. Modification of a port's IPspace will only work before a node is added to a cluster, when the cluster version is below Data ONTAP 8.3, or when the node is offline. To change the IPspace of a port once the node is in a Data ONTAP 8.3 cluster, the port should be added to a broadcast-domain that belongs to that IPspace. If there is an inconsistency between the broadcast-domain and IPspace, this parameter can be set to bring the IPspace into alignment with the broadcast-domain.

### **[-ignore-health-status {true|false}] - Ignore Port Health Status**

Use this parameter to specify that the system ignore network port health status of the specified port for the purpose of hosting a logical interface.

## Examples

The following example modifies port e0a on a node named node0 not to use auto-negotiation, to preferably use half duplex mode, and to preferably run at 100 Mbps.

```
cluster1::> network port modify -node node0 -port e0a -autonegotiate-admin
false -duplex-admin half -speed-admin 100
```

## network port show-address-filter-info

Print the port's address filter information

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

### Description

The `network port show-address-filter-info` command displays information about the port's address filter.

### 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> - Node**

Use this parameter to specify the node.

**-port {<netport>|<ifgrp>} - Port**

Use this parameter to specify the port. For example, `e0c`.

**[-num-total <integer>] - Total Number Of Entries**

Use this parameter to specify the total number of entries.

**[-num-used <integer>] - Number Of Used Entries**

Use this parameter to specify the number of used entries.

**[-used-entries <text>,...] - The Used Entries**

Use this parameter to list the used entries.

### Examples

The following example displays information of the given port's address filter on the specified node of the cluster.

```
cluster1::*> network port show-address-filter-info -node local -port e0c
```

```
Node: node1
```

Port Name	Total Number of Address Filter Entries	Number of Used Address Filter Entries	Used Address Filter Entries
e0c	1328	3	U 0 a0 98 40 e 6 M 1 80 c2 0 0 e M 1 0 5e 0 0 fb

## network port show

Display network port attributes

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

### Description

The `network port show` command displays information about network ports. The command output indicates any inactive links, and lists the reason for the inactive status.

Some parameters can have "administrative" and "operational" values. The administrative setting is the preferred value for that parameter, which is set when the port is created or modified. The operational value is the actual current value of that parameter. For example, if the network is underperforming due to network problems, the operational speed value can be lower than the administrative setting.

If the operational duplex mode and speed of a port cannot be determined (for instance, if the link is down), that port's status is listed as *undef*, meaning undefined.

### 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.

**| [-health ]**

Use this parameter to display detailed health information for the specified network ports.

**| [-instance ] }**

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

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

Selects the network ports that match this parameter value. Use this parameter with the `-port` parameter to select a port.

**[-port {<netport>|<ifgrp>}] - Port**

Selects the network ports that match this parameter value. If you do not use this parameter, the command displays information about all network ports.

**[-link {off|up|down}] - Link**

Selects the network ports that match this parameter value.

**[-mtu <integer>] - MTU**

Selects the network ports that match this parameter value.

**[-autonegotiate-admin {true|false}] - Auto-Negotiation Administrative**

Selects the network ports that match this parameter value.

**[-autonegotiate-oper {true|false}] - Auto-Negotiation Operational**

Selects the network ports that match this parameter value.

**[-duplex-admin {auto|half|full}] - Duplex Mode Administrative**

Selects the network ports that match this parameter value.

**[-duplex-oper {auto|half|full}] - Duplex Mode Operational**

Selects the network ports that match this parameter value.

**[-speed-admin {auto|10|100|1000|10000|100000|40000|25000}] - Speed Administrative**

Selects the network ports that match this parameter value.

**[-speed-oper {auto|10|100|1000|10000|100000|40000|25000}] - Speed Operational**

Selects the network ports that match this parameter value.

**[-flowcontrol-admin {none|receive|send|full}] - Flow Control Administrative**

Selects the network ports that match this parameter value.

**[-flowcontrol-oper {none|receive|send|full}] - Flow Control Operational**

Selects the network ports that match this parameter value.

**[-mac <MAC Address>] - MAC Address**

Selects the network ports that match this parameter value.

**[-up-admin {true|false}] - Up Administrative**

Selects the network ports that match this parameter value.

**[-type {physical|if-group|vlan|vip}] - Port Type**

Selects the network ports that match this parameter value.

**[-ifgrp-node <nodename>] - Interface Group Parent Node**

Selects the network ports that match this parameter value.

**[-ifgrp-port {<netport>|<ifgrp>}] - Interface Group Parent Port**

Selects the network ports that match this parameter value.

**[-ifgrp-distr-func {mac|ip|sequential|port}] - Distribution Function**

Selects the network ports that match this parameter value.

**[-ifgrp-mode {multimode|multimode\_lacp|singlemode}] - Create Policy**

Selects the network ports that match this parameter value.

**[-vlan-node <nodename>] - Parent VLAN Node**

Selects the network ports that match this parameter value.

**[-vlan-port {<netport>|<ifgrp>}] - Parent VLAN Port**

Selects the network ports that match this parameter value.

**[-vlan-tag <integer>] - VLAN Tag**

Selects the network ports that match this parameter value.

**[-remote-device-id <text>] - Remote Device ID**

Selects the network ports that match this parameter value.

**[-ipspace <IPspace>] - IPspace Name**

Use this parameter to display information only about the ports that match the IPspace you specify.

**[-broadcast-domain <Broadcast Domain>] - Broadcast Domain**

Use this parameter to display information only about the ports that match the broadcast-domain you specify.

**[-mtu-admin <integer>] - MTU Administrative**

Selects the network ports that match this parameter value.

**[-health-status {healthy|degraded}] - Port Health Status**

Use this parameter to display information only about the ports that match the health-status you specify.

**[-ignore-health-status {true|false}] - Ignore Port Health Status**

Use this parameter to display information only about the ports that match the ignore-health-status you specify.

**[-health-degraded-reasons {l2-reachability|link-flapping|crc-errors|vswitch-link}] - Port Health Degraded Reasons**

Use this parameter to display information only about the ports that match the degraded-reason you specify.

## Examples

The following example displays information about all network ports.



```

cluster1::> network port show

Node: node1

Ignore

Health
Port      IPspace      Broadcast Domain Link MTU  Admin/Oper  Status
Status
-----
-----
e0a      Cluster      Cluster      up    9000  auto/1000  healthy
false
e0b      Cluster      Cluster      up    9000  auto/1000  healthy
false
e0c      Default      Default      up    1500  auto/1000  degraded
false
e0d      Default      Default      up    1500  auto/1000  degraded
true
Node: node2

Ignore

Health
Port      IPspace      Broadcast Domain Link MTU  Admin/Oper  Status
Status
-----
-----
e0a      Cluster      Cluster      up    9000  auto/1000  healthy
false
e0b      Cluster      Cluster      up    9000  auto/1000  healthy
false
e0c      Default      Default      up    1500  auto/1000  healthy
false
e0d      Default      Default      up    1500  auto/1000  healthy
false

8 entries were displayed.

```

The following example displays health information about all network ports.

```

cluster1::> network port show -health

```

Node	Port	Link	Health Status	Ignore Health Status	Degraded Reasons
node1					
	e0a	up	healthy	false	-
	e0b	up	healthy	false	-
	e0c	up	degraded	false	l2_reachability, link_flapping
	e0d	up	degraded	false	l2_reachability
node2					
	e0a	up	healthy	false	-
	e0b	up	healthy	false	-
	e0c	up	healthy	false	-
	e0d	up	degraded	false	-

8 entries were displayed.

## network port broadcast-domain add-ports

Add ports to a layer 2 broadcast domain

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

### Description

Add ports to a broadcast domain.



The IPspace of the ports added will be updated to the IPspace of the broadcast-domain. The ports will be added to the failover-group of the broadcast-domain. The MTU of the ports will be updated to the MTU of the broadcast-domain.

### Parameters

**-ipSPACE <IPspace> - IPspace Name**

The IPspace of the broadcast domain.

**-broadcast-domain <Broadcast Domain> - Layer 2 Broadcast Domain**

The broadcast domain for this port assignment.

**-ports [node]:<port> ,... - List of ports**

The ports to be added to this broadcast domain.

## Examples

The following example adds the port "e0d" on node "cluster1-1" and port "e0d" on node "cluster1-2" to broadcast domain "mgmt" in IPspace "Default".

```
cluster1::network port broadcast-domain> add-ports -ipSpace Default
-broadcast-domain mgmt -ports cluster1-1:e0d, cluster1-2:e0d
```

## network port broadcast-domain create

Create a new layer 2 broadcast domain

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

### Description

Create a new broadcast domain.



The IPspace of the ports added will be updated to the IPspace of the broadcast-domain. A failover-group will be generated containing the ports of the broadcast-domain. The MTU of all of the ports in the broadcast-domain will be updated to the MTU specified for the broadcast-domain.

### Parameters

#### **[-ipSpace <IPspace>] - IPspace Name**

The IPspace to which the new broadcast domain belongs.

#### **-broadcast-domain <Broadcast Domain> - Layer 2 Broadcast Domain**

The name of the broadcast domain to be created. The name of the broadcast domain needs to be unique within the IPspace.

#### **-mtu <integer> - Configured MTU**

MTU of the broadcast domain.

#### **[-ports [node>:<port>],...] - Ports**

The network ports to be added to the broadcast domain. Ports need to be added to the broadcast domain before interfaces can be hosted on the port. By default, no port will be added to the broadcast domain.

## Examples

The following example creates broadcast domain "mgmt" in IPspace "Default" with an MTU of 1500 and network ports e0c from node "gx1" and node "gx2".

```
cluster1::> network port broadcast-domain create -ipSpace Default
-broadcast-domain mgmt -mtu 1500 -ports gx1:e0c,gx2:e0c
```

## network port broadcast-domain delete

Delete a layer 2 broadcast domain

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

### Description

Delete a broadcast domain that contains no ports.

### Parameters

**-ipSPACE <IPspace> - IPspace Name**

The IPspace to which the broadcast domain belongs

**-broadcast-domain <Broadcast Domain> - Layer 2 Broadcast Domain**

The name of the broadcast domain to be deleted.

### Examples

The following example deletes the broadcast domain "mgmt" in IPspace "Default".

```
cluster1::network port broadcast-domain> delete -ipSPACE Default  
-broadcast-domain mgmt
```

## network port broadcast-domain merge

Merges two layer 2 broadcast domains

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

### Description

Merges a broadcast domain into an existing broadcast domain.

### Parameters

**-ipSPACE <IPspace> - IPspace Name**

The IPspace of the broadcast domain.

**-broadcast-domain <Broadcast Domain> - Layer 2 Broadcast Domain**

The merging broadcast domain.

**-into-broadcast-domain <Broadcast Domain> - Merge with This Layer 2 Broadcast Domain**

The target broadcast domain for the merge operation.

## Examples

The following example merges broadcast domain "bd-mgmt" in IPspace "Default" to broadcast domain "bd-data".

```
cluster1::network port broadcast-domain> merge -ipspace Default -broadcast  
-domain bd-mgmt -into-broadcast-domain bd-data
```

## network port broadcast-domain modify

Modify a layer 2 broadcast domain

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

### Description

Modify a broadcast domain.

### Parameters

**-ipspace <IPspace> - IPspace Name**

The IPspace to which the broadcast domain belongs.

**-broadcast-domain <Broadcast Domain> - Layer 2 Broadcast Domain**

The name of the broadcast domain.

**[-mtu <integer>] - Configured MTU**

MTU of the broadcast domain.

### Examples

The following example modifies the mtu attribute of broadcast domain "mgmt" in IPspace "Default" to 1500

```
cluster1::network port broadcast-domain*> modify -ipspace Default  
-broadcast-domain mgmt -mtu 1500
```

## network port broadcast-domain remove-ports

Remove ports from a layer 2 broadcast domain

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

### Description

Remove port assignments from a broadcast domain.

## Parameters

### **-ipSPACE <IPspace> - IPspace Name**

The IPspace of the broadcast domain.

### **-broadcast-domain <Broadcast Domain> - Layer 2 Broadcast Domain**

The broadcast domain of the ports.

### **-ports [node>:<port>] ,... - List of ports**

The ports to removed from the broadcast-domain.

## Examples

The following example removes port "e0d" on node "cluster1-1" and port "e0d" on node "cluster1-2" from broadcast domain "mgmt" in IPspace "Default".

```
cluster1::network port broadcast-domain> remove-ports -ipSPACE Default  
-broadcast-domain mgmt -ports cluster1-1:e0d, cluster1-2:e0d
```

## network port broadcast-domain rename

Rename a layer 2 broadcast domain

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

## Description

Rename a broadcast domain.

## Parameters

### **-ipSPACE <IPspace> - IPspace Name**

The IPspace to which the broadcast domain belongs.

### **-broadcast-domain <Broadcast Domain> - Layer 2 Broadcast Domain**

The name of the broadcast domain.

### **-new-name <text> - New Name**

The new name of the broadcast domain.

## Examples

The following example renames the broadcast domain named "mgmt" to "mgmt2" in IPspace "Default".

```
cluster1::network port broadcast-domain> rename -ipSPACE Default  
-broadcast-domain mgmt -new-name mgmt2
```

# network port broadcast-domain show

Display layer 2 broadcast domain information

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

## Description

Display broadcast domain information.

## 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.

**[-ipSPACE <IPspace>] - IPspace Name**

Selects the broadcast domains that match the IPspace name.

**[-broadcast-domain <Broadcast Domain>] - Layer 2 Broadcast Domain**

Selects the broadcast domains that match the broadcast domain name.

**[-mtu <integer>] - Configured MTU**

Selects the broadcast domains that match the MTU value. This field is the MTU that was configured by the user, which might be different from the operational MTU.

**[-ports [node>:<port] ,...] - Ports**

Selects the broadcast domains that contain the network ports. For example, `node1:e0a` will display broadcast domains that contain `node1:e0a` network port.

**[-port-update-status {complete|in-progress|error|overridden-while-offline}] - Port Update Status**

Selects the broadcast domains that contain the network port status. For example, specifying `"error"` will display broadcast domains that contain `"Error"` network port status.

**[-port-update-status-details <text>,...] - Status Detail Description**

Selects the broadcast domains that contain the network port status detail text.

**[-port-update-status-combined {complete|in-progress|error|overridden-while-offline}] - Combined Port Update Status**

Selects the broadcast domains that contain the combined network port status. For example, specifying `"error"` will display broadcast domains that contain a combined network port status of `"Error"`.

**[-failover-groups <failover-group>,...] - Failover Groups**

Selects the broadcast domains that contain the failover groups.

### **[`-subnet-names <subnet name>,...`] - Subnet Names**

Selects the broadcast domains that contain the subnet name or names.

### **[`-is-vip {true|false}`] - Is VIP Broadcast Domain**

Selects the broadcast domains that match a specific "is-vip" flag. Specifying "true" matches only broadcast domains associated with the Virtual IP feature; "false" matches only broadcast domains that do not.

## **Examples**

The following example displays general information about broadcast domains.

```
cluster1::> network port broadcast-domain show
IPspace Broadcast
Name      Domain Name      MTU  Port List      Update
-----  -
Cluster Cluster        9000 node1:e0a      complete
                node1:e0b      complete
Default Default        1500 node1:e0c      complete
                node1:e0d      complete
2 entries were displayed.
```

## **network port broadcast-domain split**

Splits a layer 2 broadcast domain into two layer 2 broadcast domains.

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

### **Description**

Splits ports from a broadcast domain into a new broadcast domain.

The following restrictions apply to this command:

- If the ports are in a failover group, all ports in the failover group must be provided. Use [network interface failover-groups show](#) to see which ports are in failover groups.
- If the ports have LIFs associated with them, the LIFs cannot be part of a subnet's ranges and the LIF's `curr-port` and `home-port` must both be provided. Use [network interface show-fields`subnet-name , home-node , home-port , curr-node , curr-port](#) to see which ports have LIFs associated with them and whether the LIFs are part of a subnet's ranges. Use [network subnet remove-ranges](#) with the LIF's IP address and `-force-update-lif-associations set to true` to remove the LIF's association with a subnet.

### **Parameters**



**-ipSPACE <IPspace> - IPspace Name**

The IPspace of the broadcast domain.

**-broadcast-domain <Broadcast Domain> - Layer 2 Broadcast Domain**

The broadcast domain to split.

**-new-broadcast-domain <Broadcast Domain> - New Layer 2 Broadcast Domain Name**

The new broadcast domain.

**-ports [node]:<port> ,... - List of Ports**

The ports to be split from this broadcast domain.

## Examples

The following example splits port "e0d" on node "cluster1-1" and port "e0d" on node "cluster1-2" from broadcast domain "bd-mgmt" in IPspace "Default" to broadcast domain "bd-data".

```
cluster1::> network port broadcast-domain split -ipSPACE Default
-broadcast-domain bd-mgmt -new-broadcast-domain bd-data -ports cluster1-
1:e0d, cluster1-2:e0d
```

## Related Links

- [network interface failover-groups show](#)
- [network interface show](#)
- [network subnet remove-ranges](#)

## network port ifgrp add-port

Add a port to an interface group

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

### Description

The `network port ifgrp add-port` command adds a network port to a port interface group. The port interface group must already exist. You can create a port interface group by using the [network port ifgrp create](#) command.

The following restrictions apply to port interface groups:

- A port that is already a member of a port interface group cannot be added to another port interface group.
- Cluster ports and management ports cannot be in a port interface group.
- A port to which a logical interface is already bound cannot be added to a port interface group.
- A port that already has an assigned failover role cannot be added to a port interface group.
- A VLAN port cannot be added to a port interface group.

- A port which attaches to a VLAN cannot be added to a port interface group.
- An interface group port cannot be added to a port interface group.
- A port that is assigned to a broadcast domain cannot be added to a port interface group.
- All ports in a port interface group must be physically located on the same node.

## Parameters

### **-node {<nodename>|local} - Node**

The node on which the port interface group is located.

### **-ifgrp <ifgrp name> - Interface Group Name**

The port interface group to which a port is to be added.

### **-port <netport> - Specifies the name of port.**

The network port that is to be added to the port interface group.

## Examples

The following example adds port e0c to port interface group a1a on a node named node1:

```
cluster1::> network port ifgrp add-port -node node1 -ifgrp a1a -port e0c
```

## Related Links

- [network port ifgrp create](#)

# network port ifgrp create

Create a port interface group

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

## Description

The `network port ifgrp create` command creates a port interface group. See the documentation for the [network port ifgrp add-port](#) command for a list of restrictions on creating port interface groups.

## Parameters

### **-node {<nodename>|local} - Node**

The node on which the port interface group will be created.

### **-ifgrp <ifgrp name> - Interface Group Name**

The name of the port interface group that will be created. Port interface groups must be named using the syntax "a<number><letter>", where <number> is an integer in the range [0-999] without leading zeros and <letter> is a lowercase letter. For example, "a0a", "a0b", "a1c", and "a2a" are all valid port interface group names.

### **-distr-func {mac|ip|sequential|port} - Distribution Function**

The distribution function of the port interface group that will be created. Valid values are:

- mac - Network traffic is distributed based on MAC addresses
- ip - Network traffic is distributed based on IP addresses
- sequential - Network traffic is distributed in round-robin fashion from the list of configured, available ports
- port - Network traffic is distributed based on the transport layer (TCP/UDP) ports

### **-mode {multimode|multimode\_lacp|singlemode} - Create Policy**

The create policy for the interface group that will be created. Valid values are:

- multimode - Bundle multiple member ports of the interface group to act as a single trunked port
- multimode\_lacp - Bundle multiple member ports of the interface group using Link Aggregation Control Protocol
- singlemode - Provide port redundancy using member ports of the interface group for failover

## Examples

The following example creates a port interface group named a0a on node node0 with a distribution function of ip:

```
cluster1::> network port ifgrp create -node node0 -ifgrp a0a -distr-func ip -mode multimode
```

## Related Links

- [network port ifgrp add-port](#)

## network port ifgrp delete

Destroy a port interface group

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

## Description

The `network port ifgrp delete` command destroys a port interface group.



When you delete an interface group port, it is automatically removed from failover rules and groups to which it belongs.

## Parameters

### **-node {<nodename>|local} - Node**

The node on which the port interface group is located.

**-ifgrp <ifgrp name> - Interface Group Name**

The port interface group that will be deleted.

## Examples

The following example deletes port interface group a0b from a node named node0.

```
cluster1::> network port ifgrp delete -node node0 -ifgrp a0b
```

## network port ifgrp remove-port

Remove a port from an interface group

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

### Description

The `network port ifgrp remove-port` command removes a network port from a port interface group.

### Parameters

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

The node on which the port interface group is located.

**-ifgrp <ifgrp name> - Interface Group Name**

The port interface group from which a port will be removed.

**-port <netport> - Specifies the name of port.**

The network port that will be removed from the port interface group.

## Examples

The following example removes port e0d from port interface group a1a on a node named node1:

```
cluster1::> network port ifgrp remove-port -node node1 -ifgrp a1a -port e0d
```

## network port ifgrp show

Display port interface groups

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

### Description

The `network port ifgrp show` command displays information about port interface groups. By default, it

displays information about all port interface groups on all nodes in the cluster.

## 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 port interface groups that match this parameter value. Use this parameter with the `-ifgrp` parameter to select information about a specific port interface group.

**[-ifgrp <ifgrp name>] - Interface Group Name**

Selects the port interface groups that match this parameter value. Use this parameter with the `-node` parameter, to select information about a specific port interface group.

**[-distr-func {mac|ip|sequential|port}] - Distribution Function**

Selects the port interface groups that match this parameter value.

**[-mode {multimode|multimode\_lacp|singlemode}] - Create Policy**

Selects the port interface groups that match this parameter value.

**[-mac <MAC Address>] - MAC Address**

Selects the port interface groups that match this parameter value.

**[-activeports {full|partial|none}] - Port Participation**

Selects the port interface groups that match this parameter value. The value "partial" indicates that some but not all of the port interface group's ports are active. the value "full" indicates that all of the port interface group's ports are active.

**[-ports {<netport>|<ifgrp>}] - Network Ports**

Selects the port interface groups that match this parameter value.

**[-up-ports {<netport>|<ifgrp>}] - Up Ports**

Selects the port interface groups that match this parameter value. Displays only the ports that are up.

**[-down-ports {<netport>|<ifgrp>}] - Down Ports**

Selects the port interface groups that match this parameter value. Displays only the ports that are down.

## Examples

The following example displays information about all port interface groups.

```

cluster1::> network port ifgrp show
      Port      Distribution      Active
Node   ifgrp      Function      MAC Address      Ports      Ports
-----
node0
      a0a      ip           b8:f8:7a:20:00  partial  e0c
node1
      ala      ip           07:26:60:02:00  full    e0d

```

## network port vip create

Create a VIP port

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

The `network port vip create` command creates a VIP port in the specified IPspace on the specified node. Only one VIP port can be created per IPspace on the given node.

### Parameters

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

The node where the VIP port should be created.

**-port <netport> - Network Port**

The name of the VIP port to be created in the format v<slot-number><port-letter>

**-ipspace <IPspace> - IPspace Name**

The IPspace where the VIP port should be created. The default value for this parameter is "Default", which identifies the default IPspace.

### Examples

This example shows how to create a VIP port named v0a in ipspace ips on node1.

```

cluster1::> network port vip create -node node1 -port v0a -ipspace ips

```

## network port vip delete

Delete a VIP port

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

## Description

The `network port vip delete` command deletes a VIP port.

## Parameters

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

The node associated with the VIP port to be deleted.

**-port <netport> - Network Port**

The name of the VIP port to be deleted.

## Examples

This example shows how to delete VIP Port v0a on node1.

```
cluster1::> network port vip delete -node node1 -port v0a
```

## network port vip show

Display VIP ports

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

## Description

The `network port vip show` command displays information about VIP ports.

## 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**

This parameter selects the VIP ports that match the specified node.

**[-port <netport>] - Network Port**

This parameter selects the VIP ports that match the specified port.

**[-ipSpace <IPspace>] - IPspace Name**

This parameter selects the VIP ports that match the specified IPspace.

## Examples

The example below shows VIP port v0a is created in IPspace ips on node1.

```
cluster1::> network port vip show
Node    VIP Port IPspace
-----
node1   v0a     ips
```

## network port vlan create

Create a virtual LAN (VLAN)

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

### Description

The `network port vlan create` command attaches a VLAN to a network port on a specified node.

### Parameters

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

The node to which the VLAN is to be attached.



You cannot attach a VLAN to a cluster port.

**{ -vlan-name {<netport>|<ifgrp>} - VLAN Name**

The name of the VLAN that is to be attached. This name should be a combination of the name of the port or interface group and the VLAN ID, with a hyphen between, such as "e1c-80".

**| -port {<netport>|<ifgrp>} - Associated Network Port**

The network port to which the VLAN is to be attached.

**-vlan-id <integer> - Network Switch VLAN Identifier }**

The ID tag of the created VLAN.

### Examples

This example shows how to create VLAN e1c-80 attached to network port e1c on node1.

```
cluster1::> network port vlan create -node node1 -vlan-name e1c-80
```

## network port vlan delete

Delete a virtual LAN (VLAN)



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

## Description

The `network port vlan delete` command deletes a VLAN from a network port.



When you delete a VLAN port, it is automatically removed from all failover rules and groups that use it.

## Parameters

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

The node from which the VLAN is to be deleted.

**{ -vlan-name {<netport>|<ifgrp>} - VLAN Name**

The name of the VLAN that is to be deleted

**| -port {<netport>|<ifgrp>} - Associated Network Port**

The network port to which the VLAN is to be attached.

**-vlan-id <integer> - Network Switch VLAN Identifier }**

The ID tag of the deleted VLAN.

## Examples

This example shows how to delete VLAN e1c-80 from network port e1c on node1.

```
cluster1::> network port vlan delete -node node1 -vlan-name e1c-80
```

## network port vlan show

Display virtual LANs (VLANs)

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

## Description

The `network port vlan show` command displays information about network ports that are attached to VLANs. The command output indicates any inactive links and lists the reason for the inactive status.

If the operational duplex mode and speed cannot be determined (for instance, if the link is down), they are listed as `undef`, meaning undefined.

## 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 VLAN network ports that match this parameter value.

**{ [-vlan-name {<netport>|<ifgrp>} ] - VLAN Name**

Selects the VLAN network ports that match this parameter value.

**[ -port {<netport>|<ifgrp>} ] - Associated Network Port**

Selects the VLAN network ports that match this parameter value. If neither this parameter nor `-name` are used, the command displays information about all network ports.

**[ -vlan-id <integer> ] - Network Switch VLAN Identifier }**

Selects the VLAN network ports that match this parameter value.

**[ -mac <MAC Address> ] - MAC address**

Selects the VLAN network ports that match this parameter value.

## Examples

The example below shows VLAN e1b-70 attached to port e1b on node1.

```
cluster1::> network port vlan show
                Network Network
Node   VLAN Name Port   VLAN ID  MAC Address
-----
node1  e1b-70   e1b     70       00:15:17:76:7b:69
```

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