network arp commands

ONTAP commands

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network arp commands

network arp create

Create static ARP entry

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

Description

The `network arp create` command creates a static ARP entry for a given Vserver. Statically created ARP entries will be stored permanently in the Vserver context and will be used by the network stack.

Parameters

`-vserver <vserver name>` - Vserver Name

Use this parameter to specify the name of the Vserver on which the ARP entry is created.

`-remotehost <IP Address>` - Remote IP Address

Use this parameter to specify the IP address to be added as an ARP entry.

`-mac <MAC Address>` - MAC Address

Use this parameter to specify the MAC address (Ethernet address) for the host specified with -remotehost. Specify the MAC address as six hex bytes separated by colons.

Examples

The following example creates a static ARP entry on Vserver vs1 for the remote host with the IP address 10.63.0.2 having MAC address 40:55:39:25:27:c1

```
cluster1::> network arp create -vserver vs1 -remotehost 10.63.0.2 -mac
40:55:39:25:27:c1
```

network arp delete

Delete static ARP entry

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

Description

The `network arp delete` command deletes static ARP entries from the Vserver and from the network stack.

Parameters

-vserver <vserver name> - Vserver Name

Use this parameter to specify the name of the Vserver from which the ARP entry is deleted.

-remotehost <IP Address> - Remote IP Address

Use this parameter to specify the IP address of the ARP entry being deleted.

Examples

The following example deletes the ARP entry for IP address 10.63.0.2 from the Vserver vs1.

```
cluster1::> network arp delete -vserver vs1 -remotehost 10.63.0.2
```

network arp show

Display static ARP entries

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

Description

The `network arp show` command displays static ARP entries present in a given Vserver. This command will not display dynamically learnt ARP entries in the network stack. Use the network arp active-entry show command to display dynamically learned ARP entries in the network stack.

Parameters

{ [-fields <fieldname>,…]

Use this parameter to display only certain fields of the ARP table.

| [-instance] }

Use this parameter to display all the fields of the ARP table.

[-vserver <vserver name>] - Vserver Name

Use this parameter to display ARP entries that are specific to a given Vserver.

[-remotehost <IP Address>] - Remote IP Address

Use this parameter to display ARP entries for the specified IP address

[-mac <MAC Address>] - MAC Address

Use this parameter to display ARP entry for the specified MAC address

[-ipspace <IPspace>] - IPspace

Use this parameter to specify the IPspace associated with the Vserver

Examples

The following example displays static ARP entries from the Vserver vs1.

```
cluster1::> network arp show -vserver vs1
Vserver     Remote Host       MAC Address
----------- ----------------- -----------------
vs1
            10.238.0.2        40:55:39:25:27:c1
```

Related Links

- network arp active-entry show

network arp active-entry delete

Delete active ARP entry from a System or Admin Vserver

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

Description

The `network arp active-entry delete` command deletes dynamically learned ARP entries from the network stack of a node. To delete statically configured ARP entries use the network arp delete command.

Parameters

`-node {<nodename>|local}` - Node (privilege: advanced)

Use this parameter to specify the name of the node in which the ARP entry is deleted.

`-vserver <vserver>` - System or Admin Vserver Name (privilege: advanced)

Use this parameter to specify the name of the Vserver in which the ARP entry is deleted. Only Vservers with a type of Admin or System have dynamically learned ARP entries.

`-subnet-group <IP Address/Mask>` - Subnet Group Name (privilege: advanced)

Use this parameter to specify the name of the routing group in which the ARP entry is deleted.

`-remotehost <text>` - Remote IP Address (privilege: advanced)

Use this parameter to specify the IP address to be deleted from the active ARP entries.

`-port <text>` - Port (privilege: advanced)

Use this parameter to specify the name of the Port to be deleted from the active ARP entries.

Examples

The following example deletes the active ARP entry with an IP address of 10.224.64.1, subnet group of 0.0.0.0/0, port e0c on node node2 in the Admin Vserver cluster1:

```
cluster1::network arp active-entry*> delete -node cluster1-01 -vserver
cluster1 -subnet-group 0.0.0.0/0 -remotehost 10.224.64.1 -port e0c
```

Related Links

- network arp delete

network arp active-entry show

Display active ARP entries organized by Vserver

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

Description

The `network arp active-entry show ` command displays ARP entries present in the network stack of the node. The entries includes both dynamically learned ARP entries and user configured static ARP entries.

Parameters

{ [-fields <fieldname>,…]

Use this parameter to display only certain fields of the active ARP table.

| [-instance] }

Use this parameter to display all the fields of the active ARP table.

[-node {<nodename>|local}] - Node (privilege: advanced)

Use this parameter to display active ARP entries that are specific to a given node.

[-vserver <vserver>] - System or Admin Vserver Name (privilege: advanced)

Use this parameter to display active ARP entries that are specific to a given System or Admin Vserver. Data and Node Vservers will not have any active-arp entries.

[-subnet-group <IP Address/Mask>] - Subnet Group Name (privilege: advanced)

Use this parameter to display active ARP entries that are specific to a given subnet group.

[-remotehost <text>] - Remote IP Address (privilege: advanced)

Use this parameter to display active ARP entries for the specified IP address.

[-port <text>] - Port (privilege: advanced)

Use this parameter to display active ARP entries for the specified Port name.

[-mac <text>] - MAC Address (privilege: advanced)

Use this parameter to display the active ARP entry for the specified MAC address.

[-ipspace <IPspace>] - IPspace (privilege: advanced)

Use this parameter to specify the IPspace associated with the System or Admin Vserver.

Examples

The following example displays active ARP entries for the Admin Vserver cluster1:

```
cluster1::*> network arp active-entry show -vserver cluster1

Node: node-01
Vserver: cluster1
Subnet Group: 169.254.0.0/16
Remote IP Address MAC Address       Port
----------------- ----------------- -------
169.254.106.95    0:55:39:27:d1:c1  lo
```

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