H Commands

This chapter describes the Cisco NX-OS security commands that begin with H.

host (IPv4)

To specify a host or a subnet as a member of an IPv4-address object group, use the **host** command. To remove a group member from an IPv4-address object group, use the **no** form of this command.

[*sequence-number*] **host** *IPv4-address*

no {*sequence-number* | **host** *IPv4-address*}

[*sequence-number*] *IPv4-address network-wildcard*

no *IPv4-address network-wildcard*

[*sequence-number*] *IPv4-address/prefix-len*

no *IPv4-address/prefix-len*

Syntax Description

sequence-number	(Optional) Sequence number for this group member. Sequence numbers maintain the order of group members within an object group. Valid sequence numbers are from 1 to 4294967295. If you do not specify a sequence number, the device assigns a number that is 10 greater than the largest sequence number in the current object group.
host *IPv4-address*	Specifies that the group member is a single IPv4 address. Enter *IPv4-address* in dotted-decimal format.

IPv4-address network-wildcard	IPv4 address and network wildcard. Enter *IPv4-address* and *network-wildcard* in dotted-decimal format. Use *network-wildcard* to specify which bits of *IPv4-address* are the network portion of the address, as follows: `switch(config-ipaddr-ogroup)# 10.23.176.0 0.0.0.255` A *network-wildcard* value of 0.0.0.0 indicates that the group member is a specific IPv4 address.
IPv4-address/prefix-len	IPv4 address and variable-length subnet mask. Enter *IPv4-address* in dotted-decimal format. Use *prefix-len* to specify how many bits of *IPv4-address* are the network portion of the address, as follows: `switch(config-ipaddr-ogroup)# 10.23.176.0/24` A *prefix-len* value of 32 indicates that the group member is a specific IP address.

Defaults

None

Command Modes

IPv4 address object group configuration

SupportedUserRoles

network-admin
vdc-admin

Command History

Release	Modification
4.0(1)	This command was introduced.

Usage Guidelines

To specify a subnet as a group member, use either of the following forms of this command:

[*sequence-number*] *IPv4-address network-wildcard*

[*sequence-number*] *IPv4-address*/*prefix-len*

Regardless of the command form that you use to specify a subnet, the device shows the *IP-address*/*prefix-len* form of the group member when you use the **show object-group** command.

To specify a single IPv4 address as a group member, use any of the following forms of this command:

[*sequence-number*] **host** *IPv4-address*

[*sequence-number*] *IPv4-address* **0.0.0.0**

[*sequence-number*] *IPv4-address*/**32**

Regardless of the command form that you use to specify a single IPv4 address, the device shows the **host** *IP-address* form of the group member when you use the **show object-group** command.

This command does not require a license.

Examples

This example shows how to configure an IPv4-address object group named ipv4-addr-group-13 with two group members that are specific IPv4 addresses and one group member that is the 10.23.176.0 subnet:

```
switch# config t
switch(config)# object-group ip address ipv4-addr-group-13
switch(config-ipaddr-ogroup)# host 10.121.57.102
switch(config-ipaddr-ogroup)# 10.121.57.234/32
switch(config-ipaddr-ogroup)# 10.23.176.0 0.0.0.255
switch(config-ipaddr-ogroup)# show object-group ipv4-addr-group-13
        10 host 10.121.57.102
        20 host 10.121.57.234
        30 10.23.176.0/24
switch(config-ipaddr-ogroup)#
```

Related Commands

Command	Description
object-group ip address	Configures an IPv4 address group.
show object-group	Displays object groups.

host (IPv6)

To specify a host or a subnet as a member of an IPv6-address object group, use the **host** command. To remove a group member from an IPv6-address object group, use the **no** form of this command.

[*sequence-number*] **host** *IPv6-address*

no {*sequence-number* | **host** *IPv6-address*}

[*sequence-number*] *IPv6-address/network-prefix*

no *IPv6-address/network-prefix*

Syntax Description

sequence-number	(Optional) Sequence number for this group member. Sequence numbers maintain the order of group members within an object group. Valid sequence numbers are from 1 to 4294967295. If you do not specify a sequence number, the device assigns a number that is 10 greater than the largest sequence number in the current object group.
host *IPv6-address*	Specifies that the group member is a single IPv6 address. Enter *IPv6-address* in colon-separated, hexadecimal format.
IPv6-address/network-prefix	IPv6 address and a variable-length subnet mask. Enter *IPv6-address* in colon-separated, hexadecimal format. Use *network-prefix* to specify how many bits of *IPv6-address* are the network portion of the address, as follows: `switch(config-ipv6addr-ogroup)# 2001:db8:0:3ab7::/96` A *network-prefix* value of 128 indicates that the group member is a specific IPv6 address.

Defaults

None

Command Modes

IPv6 address object group configuration

SupportedUserRoles

network-admin
vdc-admin

Command History

Release	Modification
4.0(1)	This command was introduced.

Usage Guidelines

To specify a subnet as a group member, use the following form of this command:

[*sequence-number*] *IPv6-address/network-prefix*

To specify a single IP address as a group member, use any of the following forms of this command:

[*sequence-number*] **host** *IPv6-address*

[*sequence-number*] *IPv6-address*/**128**

Regardless of the command form that you use to specify a single IPv6 address, the device shows the **host** *IPv6-address* form of the group member when you use the **show object-group** command.

This command does not require a license.

Examples

This example shows how to configure an IPv6-address object group named ipv6-addr-group-A7 with two group members that are specific IPv6 addresses and one group member that is the 2001:db8:0:3ab7:: subnet:

```
switch# config t
switch(config)# object-group ipv6 address ipv6-addr-group-A7
switch(config-ipv6addr-ogroup)# host 2001:db8:0:3ab0::1
switch(config-ipv6addr-ogroup)# 2001:db8:0:3ab0::2/128
switch(config-ipv6addr-ogroup)# 2001:db8:0:3ab7::/96
switch(config-ipv6addr-ogroup)# show object-group ipv6-addr-group-A7
        10 host 2001:db8:0:3ab0::1
        20 host 2001:db8:0:3ab0::2
        30 2001:db8:0:3ab7::/96
switch(config-ipv6addr-ogroup)#
```

Related Commands

Command	Description
object-group ipv6 address	Configures an IPv6 address group.
show object-group	Displays object groups.