



F Commands

- [fabric-external](#), on page 3
- [fabric-interface ethernet](#), on page 4
- [fabric clear](#), on page 5
- [fabric show](#), on page 6
- [fail-auth-epg](#), on page 7
- [fail-auth-vlan](#), on page 8
- [fc-channel-group](#), on page 9
- [fc-policy-group](#), on page 10
- [fc](#), on page 11
- [fcoe](#), on page 12
- [fcoe fcmmap](#), on page 14
- [fcoe fka-adv-period](#), on page 15
- [fcoe vsan vlan loadbalancing](#), on page 16
- [ftimer e-d-tov](#), on page 18
- [ftimer r-a-tov](#), on page 19
- [feature](#), on page 20
- [fex-interface-group](#), on page 21
- [fex-profile](#), on page 22
- [fex](#), on page 23
- [file](#), on page 25
- [filter](#), on page 26
- [filter tenant application](#), on page 27
- [filter tenant bd](#), on page 29
- [filter tenant l3out](#), on page 30
- [filter tenant vrf](#), on page 32
- [fips mode](#), on page 33
- [firewall-logging](#), on page 34
- [firewall](#), on page 36
- [firmware-version](#), on page 37
- [firmware](#), on page 38
- [firmware repository add](#), on page 39
- [firmware repository delete](#), on page 40
- [firmware upgrade controller-group](#), on page 41

- [firmware upgrade switch-group](#), on page 42
- [first-file](#), on page 43
- [first-hop-security](#), on page 44
- [first-hop-security security-policy](#), on page 45
- [first-hop-security trust-control](#), on page 46
- [first-name](#), on page 47
- [flood-on-encapsulation](#), on page 48
- [flow-exporter](#), on page 49
- [flow direction](#), on page 50
- [flow exporter](#), on page 51
- [flow monitor](#), on page 53
- [flow node-policy](#), on page 55
- [flow record](#), on page 57
- [flow timeout collection](#), on page 58
- [flow timeout template](#), on page 59
- [flow vm-exporter](#), on page 60
- [force-pwd-change](#), on page 61
- [forged-transmits](#), on page 62
- [format](#), on page 63
- [forward-error-correction](#), on page 65
- [function-profile](#), on page 66
- [fwdnonecn](#), on page 67

fabric-external

fabric-external <NUMBER>

Description: Intrasite/Intersite Connectivity Profile

Syntax:

<ID>	Fabric ID. Number range from=0 to=9223372036854775807
------	---

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# fabric-external <NUMBER>
```

fabric-interface ethernet

fabric-interface ethernet

Description: Ethernet IEEE 802.3z

Syntax:

<i>arg</i>	interface range
------------	-----------------

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fabric-interface ethernet
```

fabric-interface ethernet

Description: Ethernet IEEE 802.3z

Syntax:

<i>arg</i>	interface range
------------	-----------------

Command Mode: spine : Configure Spine Node

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fabric-interface ethernet
```

fabric clear

fabric <nodes> clear <scope>

Description: clear switch information

Syntax:

<i><nodes></i>	node list
<i><scope></i>	switch command

Command Mode: exec : Exec Mode

Command Path:

```
# fabric <nodes> clear <scope>
```

Usage Notes:

When clearing virtual fibre channel (VFC) interface counters using the **fabric node clear counters interface vfc slot/port** command, allow up to eight seconds after sending the command for the counters to clear.

fabric show

fabric <nodes> show <scope>

Description: Show switch information

Syntax:

<i><nodes></i>	node list
<i><scope></i>	switch command

Command Mode: exec : Exec Mode

Command Path:

```
# fabric <nodes> show <scope>
```

fail-auth-epg

fail-auth-epg tenant <arg> application <arg> epg <arg>

Description: Set default EPg name if authentication fails

Syntax:

tenant	Tenant hosting the EPg
<i>arg</i>	
application	Application Name
<i>arg</i>	
epg	Deploy EPg if authentication fails
<i>arg</i>	

Command Mode: policy-map type port-authentication : Create node level port authentication policy

Command Path:

```
# configure [['terminal', 't']]
(config)# policy-map type port-authentication <WORD>
(config-pmap-port-authentication)# fail-auth-epg tenant <> application <> epg <>
```

fail-auth-vlan

fail-auth-vlan <vlan-id>

Description: Set default vlan encap if authentication fails

Syntax:

<code><vlan-id></code>	Configure Vlan ID
------------------------------	-------------------

Command Mode: policy-map type port-authentication : Create node level port authentication policy

Command Path:

```
# configure [['terminal', 't']]
(config)# policy-map type port-authentication <WORD>
(config-pmap-port-authentication)# fail-auth-vlan <vlan-id>
```


fc-channel-group

fc-channel-group <WORD>

Description: Associate a Channel Group to this Interface

Syntax:

<i>WORD</i>	Port-Channel name (Max Size 64)
-------------	---------------------------------

Command Mode: interface fc : FC Interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# fc-channel-group <WORD>
```

fc-channel-group <WORD>

Description: Associate a Channel Group to this Interface

Syntax:

<i>WORD</i>	Port-Channel name (Max Size 64)
-------------	---------------------------------

Command Mode: interface fc : FC Interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# fc-channel-group <WORD>
```

fc-policy-group

fc-policy-group <WORD>

Description: Associate an FC Interface Policy Group to this Interface Group

Syntax:

<i>WORD</i>	FC Interface Policy Group Name (Max Size 64)
-------------	--

Command Mode: leaf-interface-group : Configure Leaf Interface Group

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# fc-policy-group <WORD>
```

fc-policy-group <WORD>

Description: Convert interface to FC and Associate FC Policy Group

Syntax:

<i>WORD</i>	FC Interface Policy Group Name (Max Size 64)
-------------	--

Command Mode: interface fc : FC Interface

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface fc <ifRange>
(config-leaf-fc-if)# fc-policy-group <WORD>
```

fc-policy-group <WORD>

Description: Convert interface to FC and Associate FC Policy Group

Syntax:

<i>WORD</i>	FC Interface Policy Group Name (Max Size 64)
-------------	--

Command Mode: interface fc : FC Interface

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface fc <ifRange>
(config-leaf-fc-if)# fc-policy-group <WORD>
```

fc

fc

Description: Enable fc BD

Command Mode: bridge-domain : Configuration for bridge-domain

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# fc
```

fcoe

fcoe vsan <NUMBER> vlan <NUMBER>

Description: Configure fcoe parameters

Syntax:

vsan	Configure Vsan ID
<vsan-id>	Configure Vsan ID. Number range from=1 to=4093
vlan	Configure Vlan ID
<vlan-id>	Configure Vlan ID. Number range from=1 to=4094

Command Mode: vsan-domain : Configure vsan domain

Command Path:

```
# configure [['terminal', 't']]
(config)# vsan-domain <name>
(config-vsan)# fcoe vsan <NUMBER> vlan <NUMBER>
```

fcoe fcmmap <WORD>

Description: Configure fcoe parameters

Syntax:

fcmmap	FC Map
<i>WORD</i>	Configure FC Map, range is from 0E:FC:00 to 0E:FC:FF

Command Mode: template fc-fabric-policy : Configure FC Fabric Policy(Max Size 64)

Command Path:

```
# configure [['terminal', 't']]
(config)# template fc-fabric-policy <WORD>
(config-fc-fabric-policy)# fcoe fcmmap <WORD>
```

fcoe vsan <NUMBER> vlan <NUMBER>

Description: Configure fcoe parameters

Syntax:

vsan	Configure Vsan ID
<vsan-id>	Configure Vsan ID. Number range from=1 to=4093
vlan	Configure Vlan ID

<vlan-id>	Configure Vlan ID. Number range from=1 to=4094
-----------	--

Command Mode: template vsan-attribute : Configure Vsan Attributes(Max Size 64)

Command Path:

```
# configure [['terminal', 't']]
(config)# template vsan-attribute <WORD>
(config-vsan-attr)# fcoe vsan <NUMBER> vlan <NUMBER>
```

fcoe fcmmap

fcoe fcmmap <WORD>

Description: Configure FC Map

Syntax:

<i>WORD</i>	Configure FC Map, range is from 0E:FC:00 to 0E:FC:FF
-------------	--

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fcoe fcmmap <WORD>
```

fcoe fcmmap <WORD>

Description: Configure FC Map

Syntax:

<i>WORD</i>	Configure FC Map, range is from 0E:FC:00 to 0E:FC:FF
-------------	--

Command Mode: spine : Configure Spine Node

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fcoe fcmmap <WORD>
```

fcoe fka-adv-period

fcoe fka-adv-period <NUMBER>

Description: Configure FIP Keep Alive Interval

Syntax:

<interval>	FIP Keep Alive Timer. Number range from=4 to=60
------------	---

Command Mode: template fc-leaf-policy : Configure FC Leaf Policy(Max Size 64)

Command Path:

```
# configure [['terminal', 't']]
(config)# template fc-leaf-policy <WORD>
(config-fc-leaf-policy)# fcoe fka-adv-period <NUMBER>
```

fcoe fka-adv-period <NUMBER>

Description: Configure FIP Keep Alive Interval

Syntax:

<interval>	FIP Keep Alive Timer. Number range from=4 to=60
------------	---

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fcoe fka-adv-period <NUMBER>
```

fcoe fka-adv-period <NUMBER>

Description: Configure FIP Keep Alive Interval

Syntax:

<interval>	FIP Keep Alive Timer. Number range from=4 to=60
------------	---

Command Mode: spine : Configure Spine Node

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fcoe fka-adv-period <NUMBER>
```

fcoe vsan vlan loadbalancing

fcoe vsan <NUMBER> vlan <NUMBER> loadbalancing src-dst-id|src-dst-ox-id

Description: Configure loadbalancing

Syntax:

vsan	Configure Vsan ID
<vsan-id>	Configure Vsan ID. Number range from=1 to=4093
vlan	Configure Vlan ID
<vlan-id>	Configure Vlan ID. Number range from=1 to=4094
src-dst-id	Load balaning based on src-dst-id
src-dst-ox-id	Load balaning based on the src-dst-ox-id

Command Mode: vsan-domain : Configure vsan domain

Command Path:

```
# configure [['terminal', 't']]
(config)# vsan-domain <name>
(config-vsan)# fcoe vsan <NUMBER> vlan <NUMBER> loadbalancing src-dst-id|src-dst-ox-id
```

fcoe vsan <NUMBER> vlan <NUMBER> loadbalancing src-dst-id|src-dst-ox-id

Description: Configure loadbalancing

Syntax:

vsan	Configure Vsan ID
<vsan-id>	Configure Vsan ID. Number range from=1 to=4093
vlan	Configure Vlan ID
<vlan-id>	Configure Vlan ID. Number range from=1 to=4094
src-dst-id	Load balaning based on src-dst-id
src-dst-ox-id	Load balaning based on the src-dst-ox-id

Command Mode: template vsan-attribute : Configure Vsan Attributes(Max Size 64)

Command Path:

```
# configure [['terminal', 't']]
(config)# template vsan-attribute <WORD>
(config-vsan-attr)# fcoe vsan <NUMBER> vlan <NUMBER> loadbalancing src-dst-id|src-dst-ox-id
```


fctimer e-d-tov

fctimer e-d-tov <NUMBER>

Description: Configure e_d_tov value

Syntax:

<interval>	FC Fabric error detect timeout. Number range from=1000 to=4000
------------	--

Command Mode: template fc-fabric-policy : Configure FC Fabric Policy(Max Size 64)

Command Path:

```
# configure [['terminal', 't']]
(config)# template fc-fabric-policy <WORD>
(config-fc-fabric-policy)# fctimer e-d-tov <NUMBER>
```

fctimer e-d-tov <NUMBER>

Description: Configure e_d_tov value

Syntax:

<interval>	FC Fabric error detect timeout. Number range from=1000 to=4000
------------	--

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fctimer e-d-tov <NUMBER>
```

fctimer e-d-tov <NUMBER>

Description: Configure e_d_tov value

Syntax:

<interval>	FC Fabric error detect timeout. Number range from=1000 to=4000
------------	--

Command Mode: spine : Configure Spine Node

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fctimer e-d-tov <NUMBER>
```

fctimer r-a-tov

fctimer r-a-tov <NUMBER>

Description: Configure r_a_tov value

Syntax:

<interval>	FC Fabric resolution allocation timeout. Number range from=5000 to=10000
------------	--

Command Mode: template fc-fabric-policy : Configure FC Fabric Policy(Max Size 64)

Command Path:

```
# configure [['terminal', 't']]
(config)# template fc-fabric-policy <WORD>
(config-fc-fabric-policy)# fctimer r-a-tov <NUMBER>
```

fctimer r-a-tov <NUMBER>

Description: Configure r_a_tov value

Syntax:

<interval>	FC Fabric resolution allocation timeout. Number range from=5000 to=10000
------------	--

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# fctimer r-a-tov <NUMBER>
```

fctimer r-a-tov <NUMBER>

Description: Configure r_a_tov value

Syntax:

<interval>	FC Fabric resolution allocation timeout. Number range from=5000 to=10000
------------	--

Command Mode: spine : Configure Spine Node

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# fctimer r-a-tov <NUMBER>
```

feature

feature analytics|netflow

Description: Select Netflow

Syntax:

analytics	Select Analytics
netflow	Select Netflow

Command Mode: node-control : Create a Node Control Policy

Command Path:

```
# configure [['terminal', 't']]
(config)# node-control policy <WORD>
(config-node)# feature analytics|netflow
```

fex-interface-group

fex-interface-group <WORD>

Description: Configure Fex Interface Group

Syntax:

<i>WORD</i>	Fex Interface Group Name (Max Size 64)
-------------	--

Command Mode: fex-profile : Configure Fex Profile

Command Path:

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
(config-fex-profile)# fex-interface-group <WORD>
```

fex-profile

fex-profile <WORD>

Description: Configure Fex Profile

Syntax:

<i>WORD</i>	Fex Profile Name (Max Size 64)
-------------	--------------------------------

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# fex-profile <WORD>
```

fex

fex associate <NUMBER> template <WORD>

Description: Configure Fex on the Interface

Syntax:

associate	Associate the port to a FEX
<i>NUMBER</i>	Fex Number. Number range from=101 to=199
template	Associate a template
<i>WORD</i>	Fex Template Name (Max Size 64)

Command Mode: leaf-interface-group : Configure Leaf Interface Group

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf-interface-profile <WORD>
(config-leaf-if-profile)# leaf-interface-group <WORD>
(config-leaf-if-group)# fex associate <NUMBER> template <WORD>
```

fex associate <arg>

Description: Configure Fex on the Interface

Syntax:

associate	Associate the port to a FEX
<i>arg</i>	Fex Number. Number range from=101 to=199

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface ethernet <ifRange>
(config-leaf-if)# fex associate <>
```

fex associate <arg>

Description: Configure Fex on the Interface

Syntax:

associate	Associate the port to a FEX
<i>arg</i>	Fex Number. Number range from=101 to=199

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface ethernet <ifRange>
(config-leaf-if)# fex associate <>
```


file

file <FILENAME>

Description: Snapshot file name

Syntax:

<i>FILENAME</i>	Snapshot file name
-----------------	--------------------

Command Mode: snapshot download : Configuration snapshot download setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot download <WORD>
(config-download)# file <FILENAME>
```

file <FILENAME>

Description: Snapshot file name

Syntax:

<i>FILENAME</i>	Snapshot file name
-----------------	--------------------

Command Mode: snapshot import : Configuration import setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot import <WORD>
(config-import)# file <FILENAME>
```

file <FILENAME>

Description: Snapshot file name

Syntax:

<i>FILENAME</i>	Snapshot file name
-----------------	--------------------

Command Mode: snapshot upload : Configuration snapshot upload setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot upload <WORD>
(config-upload)# file <FILENAME>
```

filter

filter <WORD>

Description: Set the LDAP filter to be used in a user search

Syntax:

<WORD>	filter used in user search (Max Size 63)
--------	--

Command Mode: ldap-server host : LDAP server DNS name or IP address

Command Path:

```
# configure [['terminal', 't']]
(config)# ldap-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# filter <WORD>
```

filter tenant application

filter tenant <tenant_name> application <application_name> epg <epg_name>

Description: application

Syntax:

tenant	tenant
<i>tenant_name</i>	tenant name (Max Size 63)
<i>application_name</i>	application name (Max Size 64)
epg	epg
<i>epg_name</i>	epg name (Max Size 64)

Command Mode: source interface ethernet : Configure monitor for ethernet access interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface ethernet <ethernet> leaf <leaf Id>
(config-monitor-access-source)# filter tenant <tenant_name> application <application_name>
epg <epg_name>
```

filter tenant <tenant_name> application <application_name> epg <epg_name>

Description: application

Syntax:

tenant	tenant
<i>tenant_name</i>	tenant name (Max Size 63)
<i>application_name</i>	application name (Max Size 64)
epg	epg
<i>epg_name</i>	epg name (Max Size 64)

Command Mode: source interface port-channel : Configure monitor for port-channel interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface port-channel <port-channel list> leaf <leaf Id>
[fex <fex Id>]
(config-monitor-access-source)# filter tenant <tenant_name> application <application_name>
epg <epg_name>
```

filter tenant <tenant_name> application <application_name> epg <epg_name>

Description: application

Syntax:

tenant	tenant
<i>tenant_name</i>	tenant name (Max Size 63)
<i>application_name</i>	application name (Max Size 64)
epg	epg
<i>epg_name</i>	epg name (Max Size 64)

Command Mode: source interface vpc : Configure monitor for VPC interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface vpc <vpc list> leaf <leaf Id1> <leaf Id2> [fex
<fex Ids>]
(config-monitor-access-source)# filter tenant <tenant_name> application <application_name>
epg <epg_name>
```

filter tenant bd

filter tenant <tenant_name> bd <bd_name>

Description: BD filter

Syntax:

<i>tenant</i>	tenant
<i>tenant_name</i>	tenant name
<i>bd_name</i>	BD name

Command Mode: source interface ethernet : Configure monitor for ethernet fabric interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor fabric session <session_name>
(config-monitor-fabric)# source interface ethernet <ethernet> switch <switch Id>
(config-monitor-fabric-source)# filter tenant <tenant_name> bd <bd_name>
```

filter tenant l3out

filter tenant <tenant_name> l3out <L3Out name> address <IPv4 or IPv6 prefix format> [vlan <vlan>]

Description: L3Out

Syntax:

tenant	tenant
<i>tenant_name</i>	tenant name (Max Size 63)
<i>L3Out name</i>	L3Out name (Max Size 64)
address	IP prefix and network mask
<i>IPv4 or IPv6 prefix format</i>	IPv4 or IPv6 prefix format
<i>vlan</i>	(Optional) VLAN of the interface

Command Mode: source interface ethernet : Configure monitor for ethernet access interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
(config-monitor-access)# source interface ethernet <ethernet> leaf <leaf Id>
(config-monitor-access-source)# filter tenant <tenant_name> l3out <L3Out name> address <IPv4
or IPv6 prefix format> [vlan <vlan>]
```

filter tenant <tenant_name> l3out <L3Out name> address <IPv4 or IPv6 prefix format> [vlan <vlan>]

Description: L3Out

Syntax:

tenant	tenant
<i>tenant_name</i>	tenant name (Max Size 63)
<i>L3Out name</i>	L3Out name (Max Size 64)
address	IP prefix and network mask
<i>IPv4 or IPv6 prefix format</i>	IPv4 or IPv6 prefix format
<i>vlan</i>	(Optional) VLAN of the interface

Command Mode: source interface port-channel : Configure monitor for port-channel interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor access session <session_name>
```

```
(config-monitor-access)# source interface port-channel <port-channel list> leaf <leaf Id>
[fex <fex Id>]
(config-monitor-access-source)# filter tenant <tenant_name> l3out <L3Out name> address <IPv4
or IPv6 prefix format> [vlan <vlan>]
```

filter tenant vrf

filter tenant <tenant_name> vrf <vrf_name>

Description: VRF filter

Syntax:

tenant	tenant
<i>tenant_name</i>	tenant name
<i>vrf_name</i>	vrf name

Command Mode: source interface ethernet : Configure monitor for ethernet fabric interfaces

Command Path:

```
# configure [['terminal', 't']]
(config)# monitor fabric session <session_name>
(config-monitor-fabric)# source interface ethernet <ethernet> switch <switch Id>
(config-monitor-fabric-source)# filter tenant <tenant_name> vrf <vrf_name>
```


fips mode

fips mode enable

Description: Enable FIPS mode

Syntax:

enable	Enable FIPS mode
--------	------------------

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# fips mode enable
```

firewall-logging

firewall-logging server-group <WORD> [severity severity <severity-info>][polling-interval <polling-interval>][action-type <action-type>]

Description: Configure firewall-logging on AVS/AVE

Syntax:

server-group	Specify server group name
<i>WORD</i>	Logging server-group name (Max Size 64)
<i>severity <severity-info></i>	(Optional) Specify severity info
<i>polling-interval</i>	(Optional) Specify polling interval time in seconds. Number range from=60 to=86400
<i>action-type</i>	(Optional) Specify action type

Command Mode: configure-avs : Configure a VMWare Domain as AVS (N1K) type

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-avs
(config-vmware-avs)# firewall-logging server-group <WORD> [severity severity <severity-info>]
[polling-interval <polling-interval>] [action-type <action-type>]
```

firewall-logging server-group <WORD> [severity severity <severity-info>][polling-interval <polling-interval>][action-type <action-type>]

Description: Configure firewall-logging on AVS/AVE

Syntax:

server-group	Specify server group name
<i>WORD</i>	Logging server-group name (Max Size 64)
<i>severity <severity-info></i>	(Optional) Specify severity info
<i>polling-interval</i>	(Optional) Specify polling interval time in seconds. Number range from=60 to=86400
<i>action-type</i>	(Optional) Specify action type

Command Mode: configure-ave : Configure a Cisco AVE domain

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
```

```
(config-vmware)# configure-ave  
(config-vmware-ave)# firewall-logging server-group <WORD> [severity severity <severity-info>]  
[polling-interval <polling-interval>] [action-type <action-type>]
```

firewall

firewall mode enabled|disabled|learning

Description: Configure firewall mode on AVS/AVE

Syntax:

mode	firewall mode
enabled	Enabled mode
disabled	Disabled mode
learning	Learning mode

Command Mode: configure-avs : Configure a VMWare Domain as AVS (N1K) type

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-avs
(config-vmware-avs)# firewall mode enabled|disabled|learning
```

firewall mode enabled|disabled|learning

Description: Configure firewall mode on AVS/AVE

Syntax:

mode	firewall mode
enabled	Enabled mode
disabled	Disabled mode
learning	Learning mode

Command Mode: configure-ave : Configure a Cisco AVE domain

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-ave
(config-vmware-ave)# firewall mode enabled|disabled|learning
```

firmware-version

firmware-version <version>

Description: Set target firmware version

Syntax:

<version>	firmware version
-----------	------------------

Command Mode: controller-group : Controller Upgrade Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# controller-group
(config-firmware-controller)# firmware-version <version>
```

firmware-version <version>

Description: Set target firmware version

Syntax:

<version>	firmware version
-----------	------------------

Command Mode: switch-group : Create switch firmware upgrade policy

Command Path:

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# switch-group <WORD>
(config-firmware-switch)# firmware-version <version>
```

firmware

firmware

Description: Firmware upgrade configuration Mode

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]  
(config)# firmware
```

firmware repository add

firmware repository add <WORD>

Description: Add firmware image to repository

Syntax:

<i>WORD</i>	Firmware image filename(absolute path)
-------------	--

Command Mode: exec : Exec Mode

Command Path:

```
# firmware repository add <WORD>
```

firmware repository delete

firmware repository delete <WORD>

Description: Remove firmware image from repository

Syntax:

<i>WORD</i>	Firmware image name
-------------	---------------------

Command Mode: exec : Exec Mode

Command Path:

```
# firmware repository delete <WORD>
```


firmware upgrade controller-group

firmware upgrade controller-group

Description: Trigger controller-group upgrade

Command Mode: exec : Exec Mode

Command Path:

```
# firmware upgrade controller-group
```

firmware upgrade switch-group

firmware upgrade switch-group <WORD>

Description: Trigger switch-group upgrade

Syntax:

<i>WORD</i>	switch-group name (Max Size 64)
-------------	---------------------------------

Command Mode: exec : Exec Mode

Command Path:

```
# firmware upgrade switch-group <WORD>
```

first-file

first-file <FILENAME>

Description: First snapshot file name

Syntax:

<i>FILENAME</i>	First snapshot file name
-----------------	--------------------------

Command Mode: snapshot rollback : Configuration rollback setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot rollback <WORD>
(config-rollback)# first-file <FILENAME>
```

first-hop-security

first-hop-security

Description: Configuration for first hop security

Command Mode: tenant : Tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# first-hop-security
```

first-hop-security security-policy

first-hop-security security-policy <WORD>

Description: Associate the bridge domain with a first hop security policy

Syntax:

<i>WORD</i>	first hop security policy name to be associated (Max Size 64)
-------------	---

Command Mode: bridge-domain : Configuration for bridge-domain

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# bridge-domain <WORD>
(config-tenant-bd)# first-hop-security security-policy <WORD>
```

first-hop-security trust-control

first-hop-security trust-control <WORD>

Description: Bind the EPG to a trust control policy

Syntax:

<i>WORD</i>	trust control to associate (Max Size 64)
-------------	--

Command Mode: epg : AEPg configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# first-hop-security trust-control <WORD>
```

first-name

first-name <WORD>

Description: Set the first name of the locally-authenticated user.

Syntax:

<i>WORD</i>	first name (Max Size 32)
-------------	--------------------------

Command Mode: username : Create a locally-authenticated user account

Command Path:

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# first-name <WORD>
```

flood-on-encapsulation

flood-on-encapsulation

Description: Flood on encapsulation for EPG

Command Mode: epg : AEPg configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# flood-on-encapsulation
```


flow-exporter

flow-exporter <WORD>

Description: Configure external analytics reachability information

Syntax:

<i>WORD</i>	Analytics config server name
-------------	------------------------------

Command Mode: analytics : Configure external analytics reachability information

Command Path:

```
# configure [['terminal', 't']]
(config)# analytics cluster <WORD>
(config-analytics)# flow-exporter <WORD>
```

flow direction

flow direction ingress|egress|both

Description: Configure Netflow Direction (Valid only for AVS domain)

Syntax:

ingress	Ingress Direction
egress	Egress Direction
both	Bidirectional

Command Mode: vmware-domain : Associate EPG to a VMWare Domain

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
[delimiter <WORD>]
(config-tenant-app-epg-domain)# flow direction ingress|egress|both
```

flow exporter

flow exporter <WORD>

Description: Configure NetFlow Exporter Policy

Syntax:

<i>WORD</i>	VMM Exporter Policy Name
-------------	--------------------------

Command Mode: configure-dvs : Configure a VMWare Domain as DVS type

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-dvs
(config-vmware-dvs)# flow exporter <WORD>
```

flow exporter <WORD>

Description: Configure NetFlow Exporter Policy

Syntax:

<i>WORD</i>	VMM Exporter Policy Name
-------------	--------------------------

Command Mode: configure-avs : Configure a VMWare Domain as AVS (N1K) type

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-avs
(config-vmware-avs)# flow exporter <WORD>
```

flow exporter <WORD>

Description: Configure NetFlow Exporter Policy

Syntax:

<i>WORD</i>	VMM Exporter Policy Name
-------------	--------------------------

Command Mode: configure-ave : Configure a Cisco AVE domain

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# configure-ave
(config-vmware-ave)# flow exporter <WORD>
```

flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp <dstPort>

Description: Configure Netflow Exporter

Syntax:

<i>WORD</i>	Exporter Name (Max Size 64)
destination	Configure destination address
address	Configure destination address
<i>A.B.C.D or A:B::C:D</i>	IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx
transport	Configure Transport Port
udp	Configure Transport Port
<i>dstPort</i>	Configure Transport Port

Command Mode: tenant : Tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport
udp <dstPort>
```

flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp <dstPort>

Description: Configure Netflow Exporter

Syntax:

<i>WORD</i>	Exporter Name (Max Size 64)
destination	Configure destination address
address	Configure destination address
<i>A.B.C.D or A:B::C:D</i>	IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx
transport	Configure Transport Port
udp	Configure Transport Port
<i>dstPort</i>	Configure Transport Port

Command Mode: figure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# flow exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
```

flow monitor

flow monitor enable

Description: Configure Netflow Monitor

Syntax:

enable	Enable Netflow Monitor
--------	------------------------

Command Mode: vmware-domain : Associate EPG to a VMWare Domain

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# application <WORD>
(config-tenant-app)# epg <WORD> [type <WORD>]
(config-tenant-app-epg)# vmware-domain member <WORD> [encap <WORD>] [primary-encap <WORD>]
[allow-micro-segmentation] [deploy <WORD>] [push <WORD>] [binding-type
staticBinding|dynamicBinding|ephemeral] [port-allocation fixed|elastic] [num-ports <WORD>]
[delimiter <WORD>]
(config-tenant-app-epg-domain)# flow monitor enable
```

flow monitor <WORD>

Description: Configure Netflow Monitor

Syntax:

<i>WORD</i>	Monitor Name (Max Size 64)
-------------	----------------------------

Command Mode: tenant : Tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow monitor <WORD>
```

flow monitor <WORD>

Description: Configure Netflow Monitor

Syntax:

<i>WORD</i>	Monitor Name (Max Size 64)
-------------	----------------------------

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
```

```
(config)# flow monitor <WORD>
```

flow node-policy

flow node-policy <WORD>

Description: Netflow Node Policy Configuration

Syntax:

<i>WORD</i>	Netflow Node Policy Name (Max Size 64)
-------------	--

Command Mode: template leaf-policy-group : Configure Leaf Policy Group

Command Path:

```
# configure [['terminal', 't']]
(config)# template leaf-policy-group <WORD>
(config-leaf-policy-group)# flow node-policy <WORD>
```

flow node-policy <WORD>

Description: Node-policy name

Syntax:

<i>WORD</i>	Netflow Node Policy Name (Max Size 64)
-------------	--

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# flow node-policy <WORD>
```

flow node-policy <WORD>

Description: Node-policy name

Syntax:

<i>WORD</i>	Netflow Node Policy Name (Max Size 64)
-------------	--

Command Mode: spine : Configure Spine Node

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# flow node-policy <WORD>
```

flow node-policy <WORD>**Description:** Configure Netflow Node Policy Parameters**Syntax:**

<i>WORD</i>	Netflow Node Policy Name (Max Size 64)
-------------	--

Command Mode: configure : Configuration Mode**Command Path:**

```
# configure [['terminal', 't']]
(config)# flow node-policy <WORD>
```


flow record

flow record <WORD>

Description: Configure Netflow Record

Syntax:

<i>WORD</i>	Record Name (Max Size 64)
-------------	---------------------------

Command Mode: tenant : Tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# flow record <WORD>
```

flow record <WORD>

Description: Configure Netflow Record

Syntax:

<i>WORD</i>	Exporter Name (Max Size 64)
-------------	-----------------------------

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# flow record <WORD>
```

flow timeout collection

flow timeout collection <arg>

Description: Collection time interval

Syntax:

<i>arg</i>	Configure collection timeout value in seconds. Number range from=60 to=36000
------------	--

Command Mode: flow node-policy : Configure Netflow Node Policy Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# flow node-policy <WORD>
(config-flow-node-pol)# flow timeout collection <>
```

flow timeout template

flow timeout template <arg>

Description: Template time interval

Syntax:

<i>arg</i>	Configure template timeout value in seconds. Number range from=60 to=64000
------------	--

Command Mode: flow node-policy : Configure Netflow Node Policy Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# flow node-policy <WORD>
(config-flow-node-pol)# flow timeout template <>
```

flow vm-exporter

flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp <dstPort>

Description: Configure NetFlow Exporter for VM Networking

Syntax:

<i>WORD</i>	NetFlow Exporter Name (Max Size 64)
destination	Configure destination address
address	Configure destination address
<i>A.B.C.D or A:B::C:D</i>	IP address in format i.i.i.i or IPv6 address in format xxxx:xxxx, xxxx::xx
transport	Configure Transport Port
udp	Configure Transport Port
<i>dstPort</i>	Configure Transport Port

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# flow vm-exporter <WORD> destination address <A.B.C.D or A:B::C:D> transport udp
<dstPort>
```

force-pwd-change

force-pwd-change

Description: Force the user to change password in next login

Command Mode: username : Create a locally-authenticated user account

Command Path:

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# force-pwd-change
```

forged-transmits

forged-transmits accept

Description: Enable/disable forged transmits on trunk

Syntax:

accept	enable
--------	--------

Command Mode: trunk-portgroup : Configure a trunk port group in the VMWare domain

Command Path:

```
# configure [['terminal', 't']]
(config)# vmware-domain <WORD> [delimiter <WORD>] [access-mode <access-mode>]
(config-vmware)# trunk-portgroup <>
(config-vmware-trunk)# forged-transmits accept
```

format

format xml|short-txt|aml

Description: Configure the format of the message

Syntax:

xml	Xml
short-txt	Short-txt
aml	Aml

Command Mode: destination : Configure destination Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# destination-profile
(config-callhome-destnprof)# destination <WORD>
(config-callhome-destnprof-destn)# format xml|short-txt|aml
```

format xml|short-txt|aml

Description: Configure the format of the message

Syntax:

xml	Xml
short-txt	Short-txt
aml	Aml

Command Mode: destination : Configure destination Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# smartcallhome common
(config-smartcallhome)# destination-profile
(config-callhome-destnprof)# destination <WORD>
(config-callhome-destnprof-destn)# format xml|short-txt|aml
```

format xml|json

Description: Snapshot format: xml or json

Syntax:

xml	XML format
-----	------------

json	JSON format
------	-------------

Command Mode: snapshot export : Configuration export setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot export <WORD>
(config-export)# format xml|json
```


forward-error-correction

forward-error-correction <WORD>

Description: Forward Error Correction

Syntax:

<i>WORD</i>	Forward Error Correction Mode
-------------	-------------------------------

Command Mode: template policy-group : Configure Policy Group Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# template policy-group <WORD>
(config-pol-grp-if)# forward-error-correction <WORD>
```

forward-error-correction <WORD>

Description: Forward Error Correction

Syntax:

<i>WORD</i>	Forward Error Correction Mode
-------------	-------------------------------

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# interface ethernet <ifRange>
(config-leaf-if)# forward-error-correction <WORD>
```

forward-error-correction <WORD>

Description: Forward Error Correction

Syntax:

<i>WORD</i>	Forward Error Correction Mode
-------------	-------------------------------

Command Mode: interface ethernet : Ethernet IEEE 802.3z

Command Path:

```
# configure [['terminal', 't']]
(config)# spine <101-4000>
(config-spine)# interface ethernet <ifRange>
(config-leaf-if)# forward-error-correction <WORD>
```

function-profile

function-profile <WORD>

Description: Configure function profile container

Syntax:

<i>WORD</i>	Provide a container name for function profiles
-------------	--

Command Mode: l4l7 resource-pool : Configure L4-L7 Service Resource Pool

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 resource-pool <WORD>
(config-resource-pool)# function-profile <WORD>
```

fwdnonecn

fwdnonecn enabled|disabled

Description: Set forwarding for Non ECN (Explicit congestion notification for WRED)

Syntax:

enabled	Enable non ECN forwarding
disabled	Disable non ECN forwarding

Command Mode: algo : Configure the global QOS policies

Command Path:

```
# configure [['terminal', 't']]
(config)# qos parameters <WORD>
(config-qos)# algo wred|tail-drop
(config-qos-algo)# fwdnonecn enabled|disabled
```

