



Configuration:

```
N9K-A# show flogi database

-----
INTERFACE      VSAN   FCID      PORT NAME      NODE NAME
-----
vfc1000        1048   0xe10000  20:00:00:25:b5:00:08:01  20:00:00:25:b5:00:08:01

N9K-A# show fcns database

VSAN 1048:
-----
FCID    TYPE      PWWN              (VENDOR)      FC4-TYPE:FEATURE
-----
0xe10000 N      20:00:00:25:b5:00:08:01  (Cisco)      scsi-fcp:init fc-gs
<... output omitted ...>

MDS# show flogi database
No flogi sessions found.

MDS# show fcns database

VSAN 1048:
-----
FCID    TYPE      PWWN              (VENDOR)      FC4-TYPE:FEATURE
-----
0xe10000 N      20:00:00:25:b5:00:08:01  (Cisco)      scsi-fcp:init fc-gs
<... output omitted ...>

N9K-A# configure terminal
N9K-A(config)# install feature-set fcoe-npv
fcoe-npv feature-set cannot be installed since fcoe feature-set is already installed/enabled(0x40aa002c)

N9K-A(config)# no feature-set fcoe
no feature-set fcoe command is allowed only when there is no FC ports configured. Convert all FC ports to Eth and try again

N9K-A(config)# slot 1
N9K-A(config-slot)# port 45-48 type ethernet
Port type is changed. ACTION REQUIRED: Please save configurations and reload the switch

N9K-A(config)# copy running-config startup-config
[#####] 100%
Copy complete, now saving to disk (please wait)...
Copy complete.
N9K-A(config)# reload
This command will reboot the system. (y/n)? [n] y

N9K-A# configure terminal
N9K-A(config)# no feature-set fcoe
Feature-set Operation may take up to 30 minutes depending on the size of configuration.

Disabling feature-set. ACTION REQUIRED: Copy the running config to startup and reload the box for the disable to take effect correctly
N9K-A(config)# no install feature-set fcoe
N9K-A(config)# copy running-config startup-config
[#####] 100%
Copy complete, now saving to disk (please wait)...
Copy complete.
N9K-A(config)# reload
This command will reboot the system. (y/n)? [n] y

N9K-A# configure terminal
N9K-A(config)# install feature-set fcoe-npv
N9K-A(config)# feature-set fcoe-npv

N9K-A(config)# slot 1
N9K-A(config-slot)# port 45-48 type fc
Port type is changed. Please reload the switch
N9K-A(config-slot)# copy running-config startup-config
[#####] 100%
Copy complete, now saving to disk (please wait)...
N9K-A(config-slot)# reload
WARNING: This command will reboot the system
Do you want to continue? (y/n) [n] y
<... output omitted ...>

N9K-A# configure terminal
N9K-A(config)# interface fc1/47-48
N9K-A(config-if)# channel-group 10
fc1/47 fc1/48 added to port-channel 10 and disabled
please do the same operation on the switch at the other end of the port-channel,
then do "no shutdown" at both ends to bring it up
N9K-A(config-if)# no shutdown

N9K-A(config-if)# interface san-port-channel 10
N9K-A(config-if)# switchport mode ?
  E  E port mode
  F  F port mode
  NP NP port mode for N-Port Virtualizer (NPV) only
  auto Autosense mode
N9K-A(config-if)# switchport mode np
N9K-A(config-if)# channel mode active

N9K-A(config)# vlan 1000
N9K-A(config-vlan)# fcoe vsan 1048
N9K-A(config-vlan)# interface vfc1000
N9K-A(config-if)# bind interface Ethernet1/5
N9K-A(config-if)# switchport trunk allowed vsan 1048
Warning: This command will remove all VSANs currently being trunked and trunk only the specified VSANs.
Do you want to continue? (y/n) [n] y
N9K-A(config-if)# no shutdown

N9K-A(config-if)# vsan database
N9K-A(config-vsan-db)# vsan 1048
N9K-A(config-vsan-db)# vsan 1048 interface san-port-channel 10
N9K-A(config-vsan-db)# vsan 1048 interface vfc1000

N9K-A(config-if)# show wwn switch
  Switch WWN is 20:00:ac:4a:67:bc:d4:40

MDS# show wwn oui | i ac4a67
MDS# configure terminal
MDS(config)# wwn oui 0xac4a67
MDS(config)# show wwn oui | i ac4a67
0xac4a67  Cisco          Static

MDS(config)# show feature | i npiv
npiv      1      enabled

MDS(config)# interface port-channel 10
MDS(config-if)# switchport mode f
MDS(config-if)# channel mode active
MDS(config-if)# shutdown
MDS(config-if)# no shutdown

N9K-A(config)# interface san-port-channel 10
N9K-A(config-if)# shutdown
N9K-A(config-if)# no shutdown

MDS# show interface port-channel 10
port-channel 10 is up
<... output omitted ...>
  Port mode is F
  Port vsan is 1048
<... output omitted ...>

N9K-A# show interface san-port-channel 10
san-port-channel 10 is up
<... output omitted ...>
  Port mode is NP
  Port vsan is 1048
<... output omitted ...>

N9K-A# show npv status

npiv is disabled

disruptive load balancing is disabled

External Interfaces:
=====
Interface: san-port-channel 10, State: Up
  VSAN: 1048, State: Up, FCID: 0xf10000

Number of External Interfaces: 1

Server Interfaces:
=====
Interface: vfc1000, VSAN: 1048, State: Up

Number of Server Interfaces: 1

MDS# show flogi database

-----
INTERFACE      VSAN   FCID      PORT NAME      NODE NAME
-----
port-channel10  1048   0xf10000  24:0a:ac:4a:67:bc:d4:40  23:ee:ac:4a:67:bc:d4:41
port-channel10  1048   0xe10000  20:00:00:25:b5:00:08:01  20:00:00:25:b5:00:08:01
Total number of flogi = 2.

MDS# show fcns database

VSAN 1048:
-----
FCID    TYPE  PWWN              (VENDOR)      FC4-TYPE:FEATURE
-----
0xf10000 N    24:0a:ac:4a:67:bc:d4:40  (Cisco)      229
0xe10000 N    20:00:00:25:b5:00:08:01  (Cisco)      scsi-fcp:init fc-gs
<... output omitted ...>

N9K-A# show npv flogi-table

-----
SERVER      VSAN   FCID      PORT NAME      EXTERNAL
INTERFACE   VSAN   FCID      (NODE NAME)    INTERFACE
-----
vfc1000     1048   0xe10000  20:00:00:25:b5:00:08:01  San-po10
              (20:00:00:25:b5:00:08:01)

Total number of flogi = 1.

N9K-A# copy running-config startup-config

MDS# copy running-config startup-config
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