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Fig. 1	
C., output omitted> interface (c1/1) switchport speed 8000 switchport description Connects to N9K-A fc 1/47 port-license acquire switchport speed 8000 switchport speed 8	
switchport speed 8000 switchport description Connects to N9K-A fc 1/48 port-license acquire switchport fill-pattern IDLE speed 8000 MDSII configure terminal Enter configuration commands, one per line. End with CNTL/Z. MDSI configure terminal Enter configuration commands, one per line. End with CNTL/Z. MDSI configure terminal Enter configuration commands, one per line. End with CNTL/Z. MDSI configure interface fc1/1-2 MDSI configure interface fc1/1-2 MDSI configure interface fc1/1-2 MDSI configure interface fc1/1-2 MDSI configure interface brief continue interface int	
MDS(config.il) interface fc1/1-2 MDS(config.il) switchport mode ? E Emode F Fmode Fx Fx mode NP NP port mode for N-Port Virtualizer (NPV) only SD SD mode auto Auto mode MDS(config.il)# switchport mode E MDS(config.il)# switchport mode E MDS(config.il)# no shutdown NPK-A# show interface brief < output omitted> Interface Vsan Admin Admin Status SFP Oper Oper Port Mode Trunk Mode Mode Speed Channel (Gbps) fc1/45 1 auto on sfpAbsent	
auto Auto mode MDS(config-if)# switchport mode E MDS(config-if)# no shutdown NSK-A# show interface brief < output omitted> Interface Vsan Admin Admin Status SFP Oper Oper Port Mode Speed Channel (Gbps) fc1/45 1 auto on sfpAbsent	
Interface Vsan Admin Admin Status SFP Oper Oper Port Mode Trunk Mode Speed Channel (Gbps) fc1/45 1 auto on sfpAbsent	
fc1/47 1 E on trunking swl TE 8 fc1/48 1 E on trunking swl TE 8 fc1/48 1 E on trunking swl TE 8 < output omitted> N9K-A# show interface fc1/47-48 < output omitted> Port mode is TE Port vsan is 1 Speed is 8 Gbps Transmit B2B Credit is 500 Receive B2B Credit is 64 Receive data field Size is 2112 Beacon is turned off Trunk vsans (admin allowed and active) (1) Trunk vsans (isolated) () Trunk vsans (initializing) () < output omitted> MDS# show interface fc1/1-2 fc1/1 is trunking Port description is Connects to N9K-A fc 1/47 < output omitted> Port mode is TE	
Speed is 8 Gbps Transmit B2B Credit is 500 Receive B2B Credit is 64 Receive data field Size is 2112 Beacon is turned off Trunk vsans (admin allowed and active) (1) Trunk vsans (up) (1) Trunk vsans (isolated) () Trunk vsans (initializing) () < output omitted> MDS# show interface fc1/1-2 fc1/1 is trunking Port description is Connects to N9K-A fc 1/47 < output omitted> Port mode is TE	
Trunk vsans (isolated) () Trunk vsans (initializing) () < output omitted> MDS# show interface fc1/1-2 fc1/1 is trunking Port description is Connects to N9K-A fc 1/47 < output omitted> Port mode is TE	
< output omitted> Port mode is TE	
Port mode is TE Port vsan is 1 Admin Speed is auto Operating Speed is 8 Gbps Rate mode is dedicated Port flow-control is R_RDY	
Transmit B2B Credit is 64 Receive B2B Credit is 500 B2B State Change: Admin(on), Oper(down) Receive data field Size is 2112 Beacon is turned off Logical type is core	
Trunk vsans (admin allowed and active) (1,1048) Trunk vsans (up) (1) Trunk vsans (isolated) (1048) Trunk vsans (initializing) () < output omitted> MDS(config-if)# vsan database MDS(config-vsan-db)# vsan 1048 interface fc1/1, fc1/2	
MDS(config-vsan-db)# vsan 1048 interface fc1/1, fc1/2 N9K-A(config)# vsan database N9K-A(config-vsan-db)# vsan 1048 interface fc 1/47-48 vsan 1048 is not configured on the switch N9K-A(config-vsan-db)# vsan 1048 N9K-A(config-vsan-db)# vsan 1048 interface fc 1/47-48	
N9K-A(config)# zone mode enhanced vsan 1048 WARNING: This command would distribute the zoning database of this switch throughout the fabric. Do you want to continue? (y/n) [n] y Current zoning mode same as specified zoning mode N9K-A(config)# interface fc1/47-48 N9K-A(config-if-range)# shutdown	
N9K-A(config-if-range)# no shutdown N9K-A# show vsan membership vsan 1 interfaces: fc1/45 fc1/46 vsan 1048 interfaces:	
<pre>fc1/47 fc1/48 vsan 4079(evfp_isolated_vsan) interfaces: vsan 4094(isolated_vsan) interfaces: N9K-A# show vsan</pre>	
vsan 1 information name:VSAN0001 state:active interoperability mode:default loadbalancing:src-id/dst-id/oxid operational state:up vsan 1048 information	
name:VSAN1048 state:active interoperability mode:default loadbalancing:src-id/dst-id/oxid operational state:up vsan 4079:evfp_isolated_vsan	
vsan 4094:isolated_vsan MDS(config)# interface fc1/1-2 MDS(config-if)# channel-group 10 fc1/1 fc1/2 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	
MDS(config-if)# no shutdown N9K-Aconfig)# interface fc1/47-48 N9K-A(config-if-range)# 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-range)# no shutdown	
N9K-A# show san-port-channel database san-port-channel10 Administrative channel mode is on Operational channel mode is on Last membership update succeeded First operational port is fc1/47	
2 ports in total, 2 ports up Ports: fc1/47 [up] * fc1/48 [up] MDS(config-if)# show port-channel database port-channel10 Administrative channel mode is active	
Operational channel mode is active Last membership update succeeded First operational port is fc1/1 2 ports in total, 2 ports up Ports: fc1/1 [up] * fc1/2 [up] MDS/configNt interface port shappel 10	
MDS(config)# interface port-channel 10 MDS(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)# interface san-port-channel 10 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# show interface san-port-channel 10 san-port-channel 10 is trunking < output omitted>	
Trunk vsans (admin allowed and active) (1048) Trunk vsans (up) (1048) Trunk vsans (isolated) () Trunk vsans (initializing) () < output omitted> N9K-A# show interface fc1/47 fc1/47 is trunking	
<pre>< output omitted> Belongs to san-port-channel 10 Trunk vsans (admin allowed and active) (1048) Trunk vsans (up)</pre>	
fc1/48 is trunking < output omitted> Belongs to san-port-channel 10 Trunk vsans (admin allowed and active) (1048) Trunk vsans (up) (1048) Trunk vsans (isolated) () Trunk vsans (initializing) ()	
N9K-A(config)# zone mode enhanced vsan 1048 WARNING: This command would distribute the zoning database of this switch throughout the fabric. Do you want to continue? (y/n) [n] y Current zoning mode same as specified zoning mode N9K-A(config)# interface san-port-channel 10	
N9K-A(config-if)# shutdown N9K-A(config)# no shutdown N9K-A(config)# show interface san-port-channel 10 san-port-channel 10 is trunking Hardware is Fibre Channel Port WWN is 24:02:8c:60:4f:72:06:80	
Admin port mode is E, trunk mode is on snmp link state traps are enabled Port mode is TE Port vsan is 1048 Speed is 16 Gbps Trunk vsans (admin allowed and active) (1048) Trunk vsans (up) (1048)	
Trunk vsans (isolated) () Trunk vsans (initializing) () MDS# show flogi database No flogi sessions found. N9K-A# show flogi database	
No flogi sessions found. MDS# show fcns database VSAN 1048:	
0x133ea6 N 20:0e:00a0:98:d5:6c:36 (NetApp) scsi-fcp:target 0x1340a6 N 20:0f:00a0:98:d5:6c:36 (NetApp) scsi-fcp:target Total number of entries = 1 N9K-A# show fcns database VSAN 1048:	
FCID TYPE PWWN (VENDOR) FC4-TYPE:FEATURE	
N9K-A# configure terminal Enter configuration commands, one per line. End with CNTL/Z. N9K-A(config)# feature lldp N9K-A(config)# show policy-map default-fcoe-in-policy Type qos policy-maps	
Type qos policy-maps ====================================	
N9K-A(config-if)# service-policy type qos input default-fcoe-in-policy N9K-A(config-if)# mtu 9216 N9K-A(config-if)# show policy type network-qos default-fcoe-nq-policy Type network-qos policy-maps ===================================	
policy-map type network-qos default-fcoe-nq-policy class type network-qos c-nq3 match qos-group 3 mtu 1500 class type network-qos c-nq2 match qos-group 2 mtu 1500	
class type network-qos c-nq1 match qos-group 1 pause pfc-cos 3 mtu 9216 class type network-qos c-nq-default match qos-group 0 mtu 1500	
N9K-A(config-if)# vlan 1000 N9K-A(config-vlan)# fcoe vsan 1048 N9K-A(config-vlan)# show interface ethernet 1/5 trunk Port Native Status Port	
Vlan Channel Eth1/5 1 trunking Port Vlans Allowed on Trunk	
Eth1/5 1-4094 Port Vlans Err-disabled on Trunk Eth1/5 none	
Port STP Forwarding Eth1/5 1,100,1000 Port Vlans in spanning tree forwarding state and not pruned	
Eth1/5 Feature VTP is not enabled 1,100 N9K-A(config-vlan)# interface vfc1 N9K-A(config-if)# bind interface ethernet 1/5 N9K-A(config-if)# switchport mode F	
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)# show running-config interface vfc1	
!Command: show running-config interface vfc1 !Running configuration last done at: Wed Apr 26 10:30:54 2021 !Time: Wed Apr 26 10:31:06 2021 version 9.3(5) Bios:version 05.39 interface vfc1 bind interface Ethernet1/5	
bind interface Ethernet1/5 switchport trunk allowed vsan 1048 N9K-A(config-if)# show running-config interface vfc1 all !Command: show running-config interface vfc1 all !Running configuration last done at: Wed Apr 26 10:35:56 2021 !Time: Wed Apr 26 10:36:08 2021	
version 9.3(5) Bios:version 05.39 interface vfc1 bind interface Ethernet1/5 switchport mode F switchport trunk allowed vsan 1048	
shutdown switchport speed auto switchport trunk mode on link-state-trap N9K-A(config-if)# no shutdown	
N9K-A(config-if)# vsan database N9K-A(config-vsan-db)# vsan 1048 interface vfc1 N9K-A(config-vsan-db)# show vsan 1048 membership vsan 1048 interfaces: fc1/47 fc1/48 san-port-channel10 vfc1 N9K-A# show interface vfc1	
N9K-A# show interface vfc1 vfc1 is trunking Bound interface is Ethernet1/5 Hardware is Ethernet Port WWN is 20:00:c4:b2:39:57:e4:df Admin port mode is F, trunk mode is on snmp link state traps are enabled Port mode is TF	
Port vsan is 1048 Operating Speed is 10 Gbps Admin Speed is auto Trunk vsans (admin allowed and active) (1048) Trunk vsans (up) (1048) Trunk vsans (isolated) () Trunk vsans (initializing) ()	
INTERFACE VSAN FCID PORT NAME NODE NAME vfc1 1048 0xe10000 20:00:00:25:b5:00:08:01 20:00:00:25:b5:00:08:01 Total number of flogi = 1.	
vfc1 1048 0xe10000 20:00:00:25:b5:00:08:01 20:00:00:25:b5:00:08:01 Total number of flogi = 1. N9K-A# show fcns database VSAN 1048:	
vfc1 1048 0xe10000 20:00:00:25:b5:00:08:01 20:00:00:25:b5:00:08:01 Total number of flogi = 1. N9K-A# show fcns database VSAN 1048:	
vfc1 1048 0xe10000 20:00:00:25:b5:00:08:01 20:00:00:25:b5:00:08:01 Total number of flogi = 1. N9K-A# show fcns database VSAN 1048:	
vfc1 1048 0xe10000 20:00:00:25:b5:00:08:01 20:00:00:25:b5:00:08:01 Total number of flogi = 1. N9K-A# show fcns database VSAN 1048: FCID TYPE PWWN (VENDOR) FC4-TYPE:FEATURE 0x133ea6 N 20:0e:00a0:98:d5:6c:36 (NetApp) scsi-fcp:target 0x1340a6 N 20:0f:00a0:98:d5:6c:36 (NetApp) scsi-fcp:target 0xe10000 N 20:00:00:25:b5:00:04:01 (Cisco) scsi-fcp:init fc-gs Total number of entries = 1 MDS# show fcns database VSAN 1048: FCID TYPE PWWN (VENDOR) FC4-TYPE:FEATURE 0x133ea6 N 20:0e:00a0:98:d5:6c:36 (NetApp) scsi-fcp:target 0x133ea6 N 20:0e:00a0:98:d5:6c:36 (NetApp) scsi-fcp:target 0x1340a6 N 20:0f:00a0:98:d5:6c:36 (NetApp) scsi-fcp:target	