FI-A  Configuration:  N9K-A# show interface transceiver  Coutput omitted> Ethernet1/47  transceiver is present type is Unknown Type-(unknown) name is CISCO-AVAGO part number is SFBR-5780AMZ-CS1 revision is G4.1 serial number is AVJ1806B14F nominal bitrate is 8500 MBit/sec Link length supported for 50/125um OM2 Link length supported for 50/125um OM3 cisco id is 3 cisco extended id number is 4 cisco part number is 10-2418-01 cisco product id is DS-SFP-FC8G-SW cisco version id is V01  Ethernet1/48 transceiver is present type is Unknown Type-(unknown) name is CISCO-AVAGO part number is SFBR-5780AMZ-CS1 revision is G4.1 serial number is AVJ1806B172 nominal bitrate is 8500 MBit/sec Link length supported for 50/125um OM2 Link length supported for 50/125um OM2 Link length supported for 50/125um of the	fc1/48 fc1/47 N9K E1/5 N9K-B	-A VIC-0 UCS-A	Fibre Channel 40 Gb Ethernet 10 Gb with FCoe 10 Gb Ethernet 1 Gb Ethernet
Configuration:  N9K-A# show interface transceiver < output omitted> Ethernet1/47   transceiver is present   type is Unknown Type-(unknown)   name is CISCO-AVAGO   part number is SFBR-5780AMZ-CS1   revision is G4.1   serial number is AVJ1806B14F   nominal bitrate is 8500 MBit/sec   Link length supported for 50/125um OM2   Link length supported for 62.5/125um fibel   Link length supported for 50/125um OM3   cisco id is 3   cisco extended id number is 4   cisco part number is 10-2418-01   cisco product id is DS-SFP-FC8G-SW   cisco version id is V01  Ethernet1/48   transceiver is present   type is Unknown Type-(unknown)   name is CISCO-AVAGO   part number is SFBR-5780AMZ-CS1   revision is G4.1   serial number is AVJ1806B172   nominal bitrate is 8500 MBit/sec   Link length supported for 50/125um OM2	N9K-B		40 Gb Ethernet 10 Gb with FCoE 10 Gb Ethernet
< output omitted> Ethernet1/47   transceiver is present   type is Unknown Type-(unknown)   name is CISCO-AVAGO   part number is SFBR-5780AMZ-CS1   revision is G4.1   serial number is AVJ1806B14F   nominal bitrate is 8500 MBit/sec   Link length supported for 50/125um OM2   Link length supported for 62.5/125um fibel   Link length supported for 50/125um OM3   cisco id is 3   cisco extended id number is 4   cisco part number is 10-2418-01   cisco product id is DS-SFP-FC8G-SW   cisco version id is V01  Ethernet1/48   transceiver is present   type is Unknown Type-(unknown)   name is CISCO-AVAGO   part number is SFBR-5780AMZ-CS1   revision is G4.1   serial number is AVJ1806B172   nominal bitrate is 8500 MBit/sec   Link length supported for 50/125um OM2			
nominal bitrate is 8500 MBit/sec Link length supported for 50/125um OM2 Link length supported for 62.5/125um fibe Link length supported for 50/125um OM3 cisco id is 3 cisco extended id number is 4 cisco part number is 10-2418-01 cisco product id is DS-SFP-FC8G-SW cisco version id is V01  Ethernet1/48 transceiver is present type is Unknown Type-(unknown) name is CISCO-AVAGO part number is SFBR-5780AMZ-CS1 revision is G4.1 serial number is AVJ1806B172 nominal bitrate is 8500 MBit/sec Link length supported for 50/125um OM2			
cisco product id is DS-SFP-FC8G-SW cisco version id is V01  Ethernet1/48    transceiver is present type is Unknown Type-(unknown) name is CISCO-AVAGO part number is SFBR-5780AMZ-CS1 revision is G4.1 serial number is AVJ1806B172 nominal bitrate is 8500 MBit/sec Link length supported for 50/125um OM2	r is 21 m		
part number is SFBR-5780AMZ-CS1 revision is G4.1 serial number is AVJ1806B172 nominal bitrate is 8500 MBit/sec Link length supported for 50/125um OM2			
Link length supported for 50/125um OM3	r is 21 m		
cisco id is 3 cisco extended id number is 4 cisco part number is 10-2418-01 cisco product id is DS-SFP-FC8G-SW cisco version id is V01 < output omitted>	linei iz 130 ili		
N9K-A# configure terminal N9K-A(config)# install feature-set fcoe N9K-A(config)# feature-set fcoe Please configure the following for fcoe to be - hardware access-list tcam region ing-racl < hardware access-list tcam region ing-ifacl < hardware access-list tcam region ing-redire	TCAM size> TCAM size>		
N9K-A(config)# hardware access-list tcam replease save config and reload the system for N9K-A(config)# hardware access-list tcam replease save config and reload the system for N9K-A(config)# hardware access list team replease save config and reload the system for N9K-A(config)# hardware access list team replease save config.	the configuration to take effect gion ing-ifacl 256 the configuration to take effect		
N9K-A(config)# hardware access-list tcam re Warning: Please save config and reload the s N9K-A(config)# slot 1 N9K-A(config-slot)# port 47-48 type fc All ports in a port-group will be converted to Ports 45-48 will be converted to FC Do you want to continue (y/n): [n] y	ystem for the configuration to take ef	fect	
Port type is changed. ACTION REQUIRED: Please N9K-A(config)# copy running-config startup-[####################################	config #####] 100% ait)	e switch	
N9K-A# show interface brief < output omitted> Interface Vsan Admin Admin Status Sf Mode Trunk	 P Oper Oper Port Mode Speed Channel		
fc1/45 1 auto on sfpAbsent fc1/46 1 auto on sfpAbsent fc1/47 1 auto on down sw fc1/48 1 auto on down sw < output omitted>	  /l		
N9K-A# configure terminal Enter configuration commands, one per line. N9K-A(config)# interface fc 1/47-48 N9K-A(config-if-range)# switchport mode E N9K-A(config-if-range)# switchport speed 80 N9K-A(config-if-range)# port-license acquire N9K-A(config-if-range)# no shutdown	00		
N9K-A(config-if-range)# show interface brief < output omitted> Interface Vsan Admin Admin Status Sf Mode Trunk Mode	 P Oper Oper Port		
fc1/45 1 auto on sfpAbsent fc1/46 1 auto on sfpAbsent fc1/47 1 E on notConnected fc1/48 1 E on notConnected < output omitted>  MDS# show run interface fc1/1-2	  swl		
< output omitted> interface fc1/1 switchport speed 8000 switchport description Connects to N9K-A f port-license acquire switchport fill-pattern IDLE speed 8000	c 1/47		
interface fc1/2 switchport speed 8000 switchport description Connects to N9K-A f port-license acquire switchport fill-pattern IDLE speed 8000  MDS# configure terminal			
Enter configuration commands, one per line MDS(config)# interface fc1/1-2 MDS(config-if)# switchport mode ?  E E mode F F mode Fx Fx mode NP NP port mode for N-Port Virtualizer (NSD SD mode			
auto Auto mode  MDS(config-if)# switchport mode E  MDS(config-if)# no shutdown  N9K-A# show interface brief  < output omitted>			
Interface Vsan Admin Admin Status SF Mode Trunk Mode  fc1/45 1 auto on sfpAbsent fc1/46 1 auto on sfpAbsent	P Oper Oper Port  Mode Speed Channel  (Gbps)		
fc1/47 1 E on trunking sw fc1/48 1 E on trunking sw < output omitted> N9K-A# show interface fc1/47-48 < output omitted> Port mode is TE Port vsan is 1	I TE 8 I TE 8		
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/ < output omitted>	<b>'</b> 47		
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 Trunk vsans (up) (1)			
Trunk vsans (admir anowed and active) (1 Trunk vsans (ip) (1) Trunk vsans (isolated) (1048) Trunk vsans (initializing) () < output omitted>  MDS(config-if)# vsan database  MDS(config-vsan-db)# vsan 1048 interface for			
N9K-A(config)# vsan database N9K-A(config-vsan-db)# vsan 1048 interface vsan 1048 is not configured on the switch N9K-A(config-vsan-db)# vsan 1048 N9K-A(config-vsan-db)# vsan 1048 interface N9K-A(config)# zone mode enhanced vsan 1	fc 1/47-48 048		
N9K-A(config)# zone mode enhanced vsan 1 WARNING: This command would distribute the fabric. Do you want to continue? (y/n) [n] you current zoning mode same as specified zoning the normal state of the normal	he zoning database of this switch thro	ughout the	
N9K-A# show vsan membership vsan 1 interfaces: fc1/45 fc1/46 vsan 1048 interfaces: fc1/47 fc1/48			
vsan 4079(evfp_isolated_vsan) interfaces:  vsan 4094(isolated_vsan) interfaces:  N9K-A# show vsan 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 dis please do the same operation on the switch shutdown" at both ends to bring it up MDS(config-if)# no shutdown		hen do "no	
N9K-Aconfig)# interface fc1/47-48 N9K-A(config-if-range)# channel-group 10 fc1/47 fc1/48 added to port-channel 10 and please do the same operation on the switch shutdown" at both ends to bring it up. N9K-A(config-if-range)# no shutdown		hen do "no	
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] *			
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			
First operational port is fc1/1 2 ports in total, 2 ports up Ports: fc1/1 [up] * fc1/2 [up]  MDS(config)# interface port-channel 10 MDS(config-if)# switchport trunk allowed vs. Warning: This command will remove all VSA		nly the	
specified VSANs.  Do you want to continue? (y/n) [n] y  N9K-A(config)# interface san-port-channel 1: N9K-A(config-if)# switchport trunk allowed v Warning: This command will remove all VSAI specified VSANs.  Do you want to continue? (y/n) [n] y	0 san 1048		
N9K-A# show interface san-port-channel 10 san-port-channel 10 is trunking < output omitted> Trunk vsans (admin allowed and active) (1 Trunk vsans (up) (1048) Trunk vsans (isolated) ()	048)		
Trunk vsans (initializing) () < output omitted> N9K-A# show interface fc1/47 fc1/47 is trunking < output omitted> Belongs to san-port-channel 10 Trunk vsans (admin allowed and active) (1 Trunk vsans (up) (1048)	048)		
Trunk vsans (up) (1048) Trunk vsans (isolated) () Trunk vsans (initializing) () < output omitted> N9K-A# show interface fc1/48 fc1/48 is trunking < output omitted> Belongs to san-port-channel 10 Trunk vsans (admin allowed and active) (1	048)		
Trunk vsans (admin allowed and active) (1 Trunk vsans (up) (1048) Trunk vsans (isolated) () Trunk vsans (initializing) () < output omitted>  N9K-A(config)# zone mode enhanced vsan 1 WARNING: This command would distribute to	D48	ughout the	
fabric. Do you want to continue? (y/n) [n] y Current zoning mode same as specified zonin  N9K-A(config)# interface san-port-channel 1  N9K-A(config-if)# shutdown  N9K-A(config-if)# no shutdown	ng mode		
N9K-A(config)# show interface san-port-charsan-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	INCI IU		
Speed is 16 Gbps Trunk vsans (admin allowed and active) (1 Trunk vsans (up) (1048) Trunk vsans (isolated) () Trunk vsans (initializing) ()  MDS# show flogi database	048)		
No flogi sessions found.  N9K-A# show flogi database No flogi sessions found.  MDS# show fcns database  VSAN 1048:			
FCID TYPE PWWN (VEN 	IDOR) FC4-TYPE:FEATURE : :App) scsi-fcp:target		
0x133ea6 N 20:0e:00a0:98:d5:6c:36 (Ne	IDOR) FC4-TYPE:FEATURE: :App) scsi-fcp:target		
0x1340a6 N 20:0f:00a0:98:d5:6c:36 (Ne Total number of entries = 1  N9K-A# configure terminal Enter configuration commands, one per line. N9K-A(config)# feature lldp	tApp) scsi-fcp:target  End with CNTL/Z.		
N9K-A(config)# show policy-map default-fco  Type qos policy-maps ====================================	- пт-ропсу		
class default-fcoe-in-qos set cos 3 set qos-group 1  N9K-A(config)# interface ethernet 1/5  N9K-A(config-if)# service-policy type qos inp  N9K-A(config-if)# mtu 9216  N9K-A(config-if)# show policy type network-			
Type network-qos policy-maps ====================================			
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			
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 s  Eth1/5 Feature VTP is not enabled 1,100  N9K-A(config-vlan)# interface vfc1 N9K-A(config-if)# bind interface ethernet 1/5	state and not pruned		
N9K-A(config-if)# switchport mode F N9K-A(config-if)# switchport trunk allowed v Warning: This command will remove all VSAI specified VSANs. Do you want to continue? (y/n) [n] y	san 1048 Ns currently being trunked and trunk o	nly the	
N9K-A(config-if)# show running-config interface villening configuration last done at: Sat Dec !Time: Sat Dec 17 06:01:48 2022 version 9.3(5) Bios:version 05.39	c1		
interface vfc1 bind interface Ethernet1/5 switchport trunk allowed vsan 1048  N9K-A(config-if)# show running-config interf !Command: show running-config interface vi	c1 all		
!Running configuration last done at: Sat Dec !Time: Sat Dec 17 06:04:34 2022 version 9.3(5) Bios:version 05.39 interface vfc1 bind interface Ethernet1/5 switchport mode F			
N9K-A(config-if)# no shutdown  N9K-A(config-if)# vsan database N9K-A(config-vsan-db)# vsan 1048 interface  N9K-A(config-vsan-db)# show vsan 1048 mer vsan 1048 interfaces: fc1/47 fc1/48 san-port-channel10 v	mbership		
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) (1 Trunk vsans (up) (1048) Trunk vsans (isolated) ()	048)		
	:58 2022		
N9K-A# show flogi database			
Vfc1 1048 0xe10000 20:00:00:25:b5			
INTERFACE VSAN FCID PORT N  vfc1 1048 0xe10000 20:00:00:25:b5  Total number of flogi = 1.  N9K-A# show fcns database  VSAN 1048:	IDOR) FC4-TYPE:FEATURE		
INTERFACE VSAN FCID PORT N	tApp) scsi-fcp:target tApp) scsi-fcp:target		
INTERFACE VSAN FCID PORT N	tApp) scsi-fcp:target stApp) scsi-fcp:target sco) scsi-fcp:init fc-gs  TDOR) FC4-TYPE:FEATURE stApp) scsi-fcp:target stApp) scsi-fcp:target		
INTERFACE VSAN FCID PORT N	tApp) scsi-fcp:target sco) scsi-fcp:init fc-gs  TDOR) FC4-TYPE:FEATURE scapet scsi-fcp:target scape scsi-fcp:init fc-gs		