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Exam : **300-165**

Title : **Implementing Cisco Data
Center Infrastructure**

Vendor : **Cisco**

Version : **DEMO**

NO.1 Refer to the exhibit.

```

Desg FWD 200000000 128.2 P2p Edge
Altn BLK 200000000 128.4 P2p Edge

VLAN0200
Spanning tree enabled protocol rstp
Root ID Priority 24776
Address 503d.e58a.f500
This bridge is the root
Hello Time 2 sec Max Age 20 sec Forward D

Bridge ID Priority 24776 (priority 24576 sys-id-ext
Address 503d.e58a.f500
Hello Time 2 sec Max Age 20 sec Forward D
Aging Time 300 sec

Interface Role Sts Cost Prio.Nbr Type
-----
Gil/0/2 Desg FWD 65535 128.2 P2p Edge
Gil/0/4 Desg FWD 65535 128.4 P2p Edge

```

Which impact of the configuration on VLAN 100 is true?

- A. The maximum number of hops between host is 3.
- B. The spanning tree cost value for VLAN 100 is 65535.
- C. The maximum number of hos between hosts is 4.
- D. The spanning tree cost value for VLAN 200 is 4.

Answer: A

NO.2 In Any Source Multicast groups which multicast enabled device supports shared trees?

- A. last-hop router
- B. any router in the tree except for the RP
- C. RP
- D. first-hop router

Answer: D

Reference:

<https://www.cisco.com/c/en/us/support/docs/ip/multicast/212639-native-multicast-flow-any-source-multi.html#a>

NO.3 You plan to configure a SAN zone set, which two facts should you consider

- A. A SAN zone set consists of one or more SAN zones
- B. VSANs can be active by using enhanced zoning
- C. Only one SAN zones set can be active per VSAN
- D. A SAN zone set must be active manually on all of the fabric nodes
- E. One SAN zone can be the member of only one zone set

Answer: A,C

Explanation

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/san_switching/b_Cisco_Nexus_5000_

NO.4 Refer to the exhibit.

```

OTV_EDGE1_SITE#1 show otv route
OTV Unicast MAC Routing Table For Overlay1

VLAN MAC-Address          Metric Uptime  Last Updt  Owner
  Next-Hop(s)
!100 MACs from SITE 1 - local
110 0000.6e01.010a 1      2d16h          2d16h      lmac
  port-channel1

!100 MACs from SITE 2
110 0000.6e02.020a 42 2d16h          2d16h      isis_otv-default
  Overlay1-10.3.8.2

OTV_EDGE1_SITE#1 show otv route
OTV Unicast MAC Routing Table For Overlay1

VLAN MAC-Address          Metric Uptime  Last Updt  Owner
  Next-Hop(s)
!100 MACs from SITE 1 - local
110 0000.6e01.010a 1      3d16h          3d16h      lmac
  port-channel1
110 0000.6e02.020a 1      0d01h          0d01h      lmac
  port-channel2

!100 MACs from SITE 2

```

Which statement based on these two outputs that were collected 24 hours apart is true?

- A. The MAC address cannot be discovered on two separate port channel interfaces.
- B. The Overlay1 IP address should be a multicast IP address.
- C. The MAC address that ends in 020a moved to the local site 23 hours ago.
- D. The Site 2 OTV edge device has gone down.

Answer: C

NO.5 You are troubleshooting the SAN fabric. You must find the FCID to WWP mapping for the N ports of a Cisco MDS Series switch. Which two communication can you run?

- A. Show vsan
- B. Show fcip database
- C. Show fspf database
- D. Show flogi database
- E. Show fcns database

Answer: D,E

NO.6 Refer to the exhibit.

```
switch# configure terminal
switch (config)# interface ethernet 1/1
switch(config-if)# lacp rate fast
```

Which statement about fabric binding is true?

- A. It binds device at the interface level
- B. Binding is based on Switch World Wide Names and domain I
- C. It learns about switches or devices that are logging in if learning mode is enabled.
- D. It can be distributed by CFS.

Answer: B

NO.7 Which feature must be configured before you can implement a dynamic ARP inspection to validate an ARP packet?

- A. MACsec encryption
- B. DHCP snooping
- C. IP Source Guard
- D. unicast RPF

Answer: B

Reference:

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5500/sw/security/602_N1_2/b_5500_Security_

NO.8 Which statement about a configuration that uses OSPFv3 multiarea adjacency is true?

- A. switch can operate in more than one area by using subinterfaces
- B. The link on a primary interface can be in more than one area
- C. A switch can support more than one address family by using point-to-multipoint
- D. Multiple VRFs can operate in different areas.

Answer: B

Reference:

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/6-x/unicast/configuration/guide/l3_cli_page_6-7

NO.9 You have a Cisco Nexus 5000 Series switch. Port security is configured to use sticky learning. Where are the secured MAC addresses stored?

- A. the running configuration
- B. the startup configuration
- C. RAM
- D. NVRAM

Answer: D

NO.10 You are implementing a Cisco Fabric Path network. Which statement accurately describes the VN-Segment feature?

- A. The VN-Segment feature must be enabled on all leaf switches.

- B. The VN-Segment tag is added to VN-Segment edge ports.
- C. Up to 16,000 VN segments are supported on a leaf switch.
- D. The VN-Segment feature must be enabled on all switches.

Answer: A

Reference:

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5600/sw/layer2/7x/b_5600_Layer2_Config_7x

NO.11 A network engineer must implement a technology that can support over 16 million broadcast domains. Which technology must the engineer implement?

- A. LISP
- B. VXLAN
- C. OTP
- D. ISIS

Answer: B

NO.12 Which three types of interfaces are required when implementing VXLAN on a Cisco Nexus 9000 Series Switch? (Choose three.)

- A. loopback
- B. overlay
- C. Ethernet
- D. NVE
- E. management
- F. ACI

Answer: A,C,D

NO.13 By default it will take 10 seconds for authentication to fail due to an unresponsive RADIUS server before a Cisco Nexus series switch reverts to another RADIUS server or local authentication. What is one efficient way to improve the reaction time to a RADIUS server failure?

- A. Configure the RADIUS retransmission count and timeout interval per server, versus globally.
- B. Decrease the global RADIUS timeout interval to 5 seconds.
- C. Decrease the global RADIUS retransmission count to 1.
- D. Configure per server a test idle timer, along with a username and password.

Answer: D

Explanation

You can monitor the availability of RADIUS servers. These parameters include the username and password to use for the server and an idle timer. The idle timer specifies the interval during which a RADIUS server receives no requests before the Nexus 5000 Series switch sends out a test packet. You can configure this option to test servers periodically. The test idle timer specifies the interval during which a RADIUS server receives no requests before the Nexus 5000 Series switch sends out a test packet. The default idle timer value is 0 minutes. When the idle time interval is 0 minutes, the Nexus 5000 Series switch does not perform periodic RADIUS server monitoring.

Reference: <http://www.cisco.com/c/en/>

[us/td/docs/switches/datacenter/nexus5000/sw/configuration/guide/cli_rel_4_0_1a/CLIconfiguratio](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/configuration/guide/cli_rel_4_0_1a/CLIconfiguratio)

nGuide/sec_ra

NO.14 Assuming hello PDU authentication has been disabled, which command re-enables the feature on a FabricPath interface?

- A. switch (config-if) # fabricpath isis authentication check
- B. switch (config-if) # fabricpath isis authentication-type cleartext
- C. switch (config-if) # fabricpath isis authentication-type md5
- D. switch (config-if) # fabricpath isis hello-interval

Answer: A

Explanation

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5500/sw/fabricpath/6x/fp_n5500_config/fp_n55

NO.15 You have multiple OTV edge devices in each OTV site. Which configuration prevents an end-to-end STP loop?

- A. selective unicast flooding
- B. AED election
- C. FHRP filtering
- D. ARP local caching

Answer: B

Reference:

https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data_Center/DCI/whitepaper/DCI3_OTV_Intro/DCI

NO.16 Refer to the exhibit.

```
N7k-1# show running-config fabricpath
...
Fabricpath switch-id 11
Vpc domain 11
    Fabricpath switch-id 1100
```

You have a Cisco Nexus 7010 switch named N7k-1

Which command set should you run on a neighboring Cisco Nexus 7010 switch to establish a vPC+ environment that includes N7k-1?

- A. fabricpath switch-id 12
vpc domain 11
fabricpath switch-id 1100
- B. fabricpath switch-id 11
vpc domain 11
fabricpath switch-id 1100
- C. fabricpath switch-id 11

vpc domain 11
fabricpath switch-id 1200
D. fabricpath switch-id 11
vpc domain 12
fabricpath switch-id 1101

Answer: A

NO.17 What are two prerequisite to running the Smart Call Home feature on a Cisco nexus 6000 series switch?

(Select two)

- A.** The switch must be configured to use an email address from the @cisco.com
- B.** The switch must have public management IP address
- C.** The switch must have an active service contract
- D.** The switch must have SMTP access to an email server
- E.** The switch must have SMTP access to a Cisco.com email server

Answer: C,D

Explanation

Prerequisites for Smart Call Home

* You must have e-mail server connectivity.

* You must have access to contact name (SNMP server contact), phone, and street address information.

* You must have IP connectivity between the switch and the e-mail server.

* You must have an active service contract for the device that you are configuring.

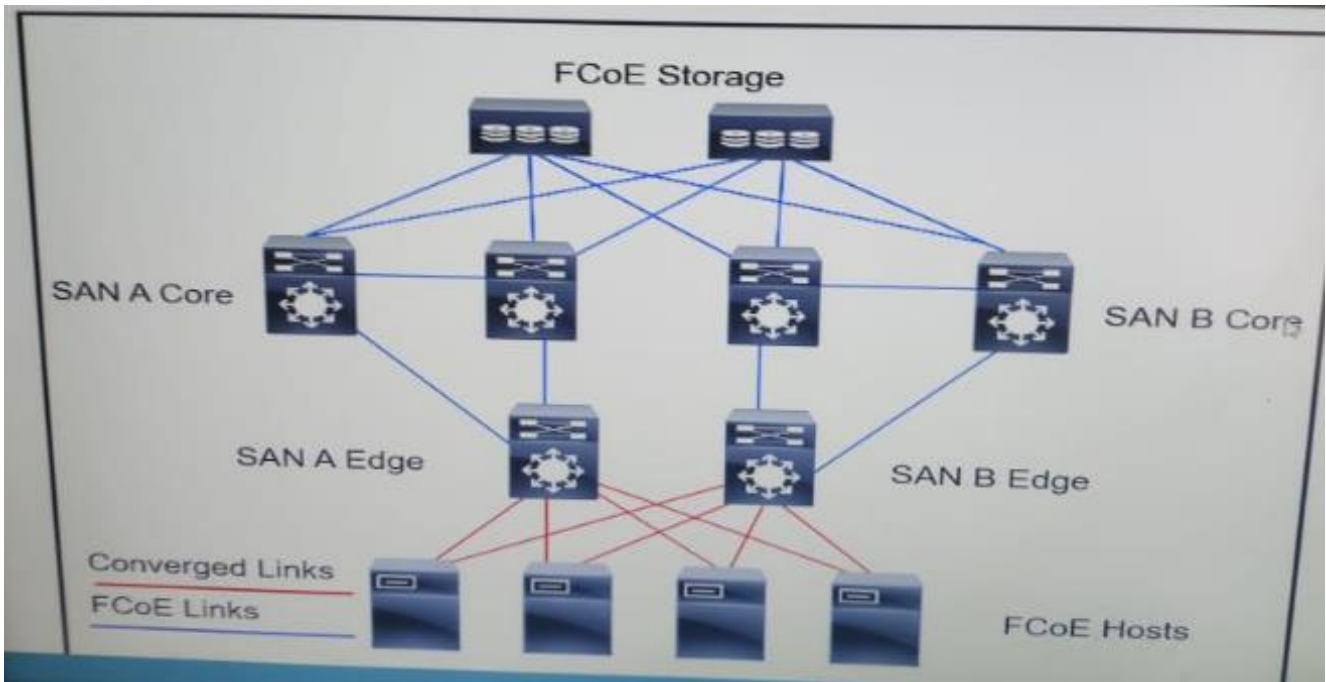
https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus6000/sw/system_management/6x/b_6k_System_Mgmt_Config_6x/b_6k_System_Mgmt_Config_602N11_chapter_01010

NO.18 Which option must be configured when you implement a vPC?

- A.** the VSL link, peer link, and vPC member interfaces
- B.** the peer keepalive link, peer link, and vPC member interfaces
- C.** the CCL link, peer link, and vPC member interfaces
- D.** the VSS link, peer link, and vPC member interfaces

Answer: B

NO.19 Refer to Exhibit.



Which type of topology is represented in the exhibit?

- A. collapsed-core
- B. edge-core-edge
- C. core-edge
- D. collapsed edge

Answer: A

NO.20 Which two statements are true when performing a SPAN capture of traffic reaching the Supervisor CPU in order to troubleshoot control plane protocols in the tenant VDC? (Choose two.)

- A. Only monitoring of egress traffic from the supervisor is possible.
- B. The SPAN configuration must be added to the default or administrative VDC.
- C. Captured traffic from the supervisor can be shown directly on the terminal.
- D. The destination interface will also receive control plane traffic from other VDCs.
- E. SPAN only supports monitoring of ingress traffic to the supervisor.

Answer: B,C

NO.21 Refer to the exhibit.

```
switch(config)# spanning-tree port type edge
bpdufilter default
switch(config)# interface ethernet 1/1-24
switch(config-if)# spanning-tree bpduguard enable
```

Which two descriptions of the switch are true? (Choose two)

- A. It shuts down any port that receives a BPDU
- B. It shuts down any edge port that receives a BPDU
- C. It prevents edge devices from sending or receiving BPDUs globally
- D. It prevents edge devices from sending or receiving BPDUs on e1/1-24 only

E. If a port in the range of e1/1-24 receives a BPDU, the port is moved to the errdisable state.

Answer: C,E

NO.22 Scenario:

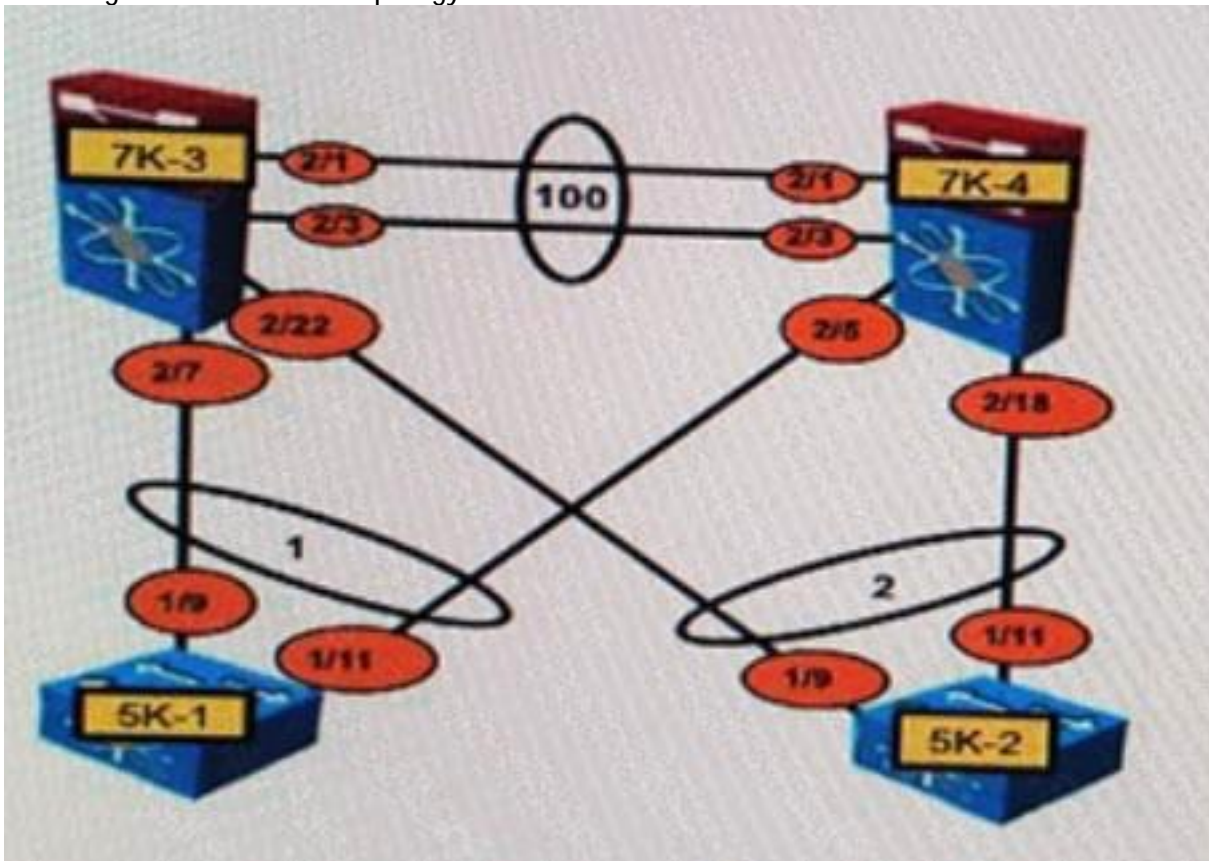
The following four questions concern the Nexus 7010' s which are configured as a vPC pair at the core of a Data Center network. You can utilize all the available show commands to answer the Questions Access to the running-configuration is not allowed.

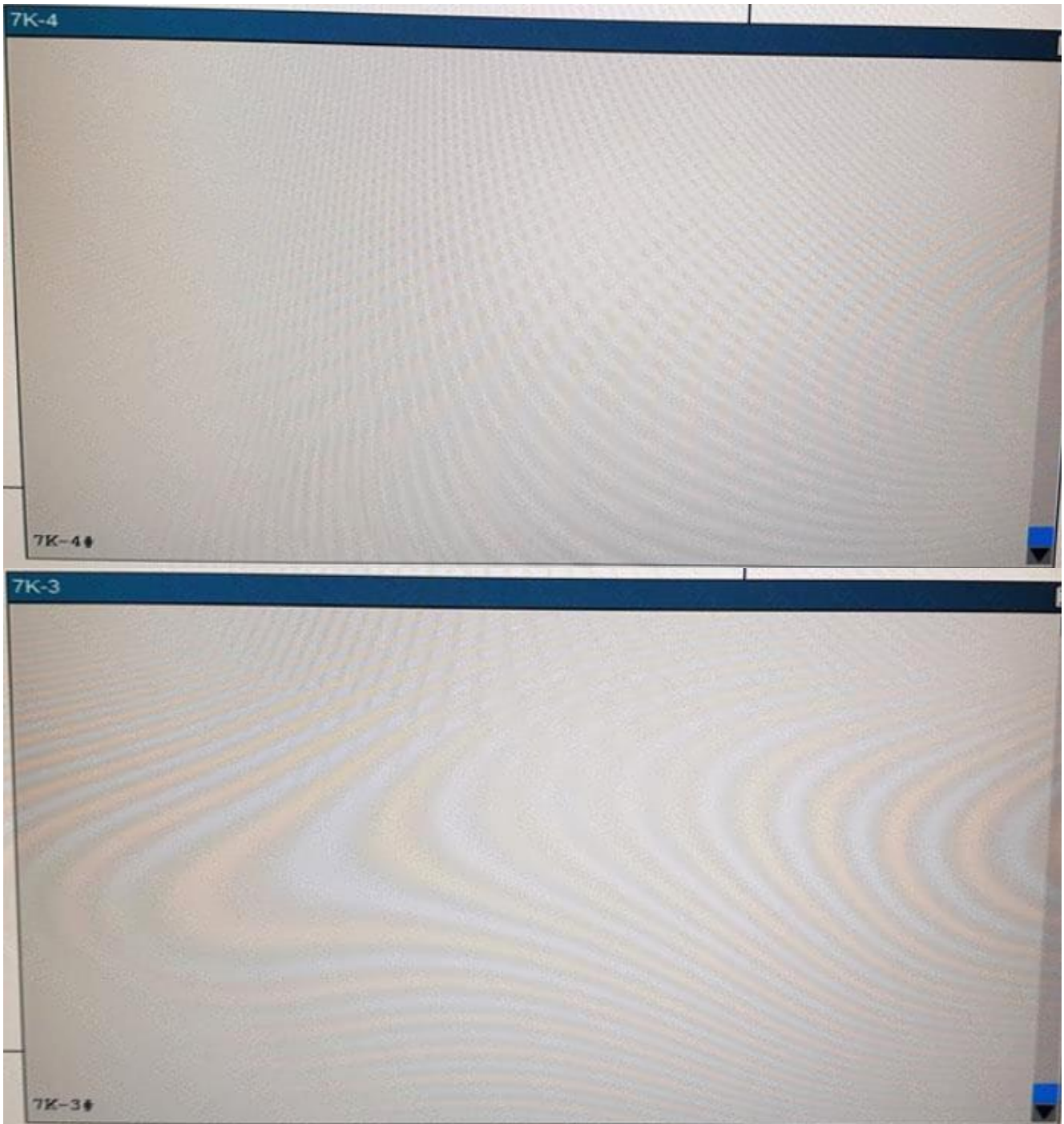
Instructions:

Enter NX-OS commands on 7K-3 and 7K-4 to verify network operation and answer four multiple-choice questions THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.

Click on the switch to gain access to the console of the switch. No console or enable passwords are required.

To access the multiple-choice questions, click on the numbered boxes on the left of the top panel. There are four multiple-choice questions with this task Be sure to answer all four questions before selecting the Next button Topology:





Which interface is used for the vPC peer keepalive on both 7000' s?

- A. Ethernet 2/1
- B. mgmt 0
- C. port-channel 1
- D. Ethernet 2/3
- E. port-channel 2
- F. port-channel 100

Answer: B

NO.23 How does an FCoE end node acquire its FCoE MAC address?

- A. Fibre Channel name server

- B. fabric-provided MAC address
- C. FIP proxy
- D. server-provided MAC address

Answer: B

Explanation

The VN_Port is assigned a fabric-provided Mac address (FPMA) that is built by concatenating a 24-bit FCoE MAC address prefix (FC-MAP), ranging from 0x0E-FC-00 to 0x0E-FC-FF, to the 24-bit FCID. Being able to build a unique MAC address for the VN_Port directly from its FCID saves the switch from having to maintain a table that associates FCID and MAC addresses.

Reference:

http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data_Center/UF_FCoE_final.html

NO.24 Which parameter is configurable when setting up logging on the Connectivity Management Processor?

- A. the number of CMP messages to save in a single log file
- B. the severity threshold of the messages to log
- C. the number of times the log can roll over
- D. the directory to save the log file to

Answer: B

NO.25 Refer to the exhibit.

```
show diff rollback-patch checkpoint stable running-config
```

Which option is the result of the command when it is executed on a Cisco Nexus 9000 Series switch?

- A. It displays the differences between the source and the destination checkpoint selections.
- B. It implements a best-effort rollback to a stable user checkpoint.
- C. It displays the differences between the latest rollback patch and the running configuration
- D. It performs a rollback to the specified checkpoint name or file based on the current differences in the running configuration

Answer: C

NO.26 Refer to the exhibit.

```
switch# show npv status

npiv is enabled

External Interfaces:
=====
Interface: fc1/1, VSAN: 1, FCID: 0x000000, State: Other

Number of External Interfaces: 7
```

Which two outcomes occur when the state is Other? (Choose two.)

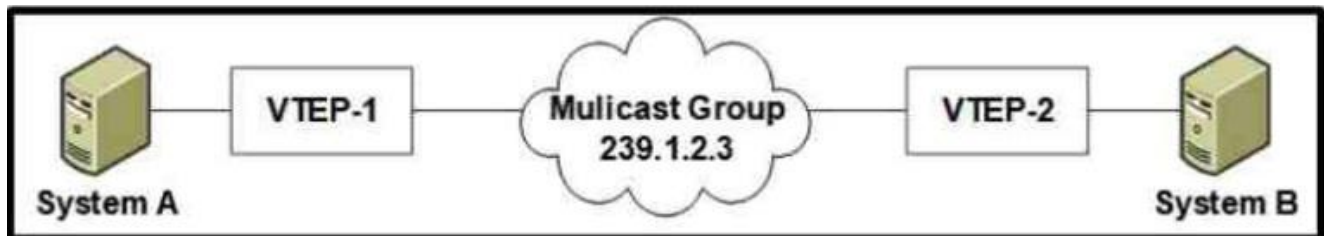
- A. The VSAN on each end of the connection does not match.
- B. The interface is not an F Port.
- C. The interface is not an E Port.
- D. The interface is functioning, but may have errors.
- E. Encryption is not enabled.
- F. Cisco Fabric Services is not enabled.
- G. The interface is administratively shut down.
- H. NPIV should be disabled.

Answer: B,G

Explanation

https://www.cisco.com/c/en/us/td/docs/storage/san_switches/mds9000/sw/rel_3_x/troubleshooting/guide/trblgd/t

NO.27 Refer to the exhibit.

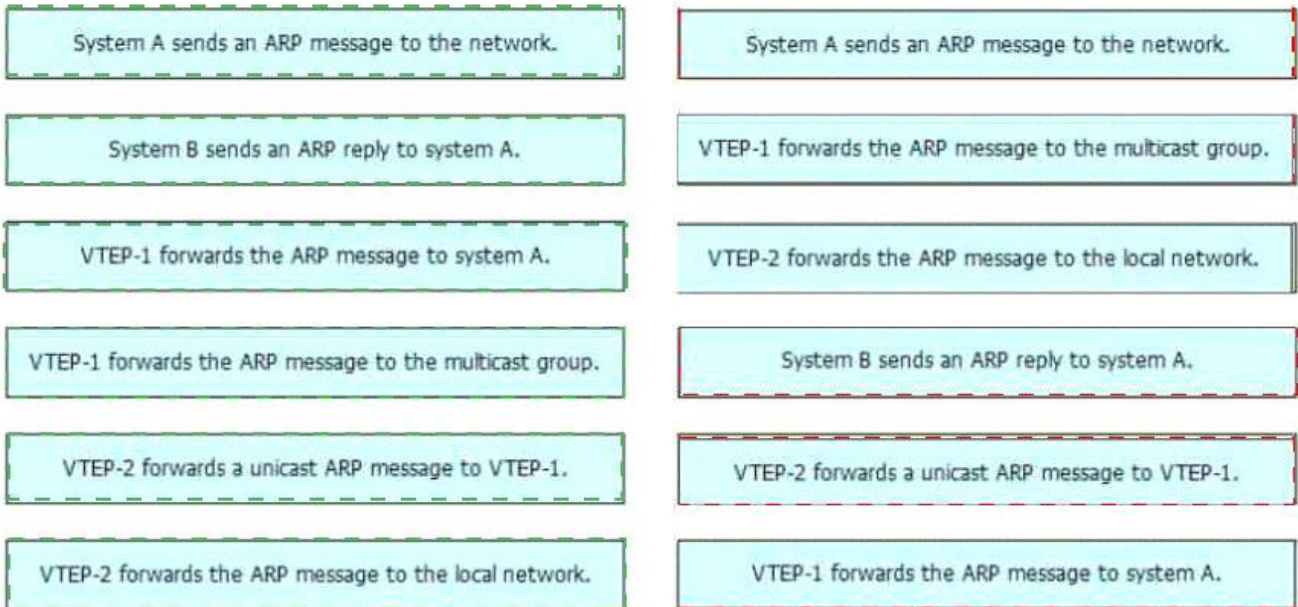


System A must be able to use VXLAN peer discovery to send a message to System B to receive a response.

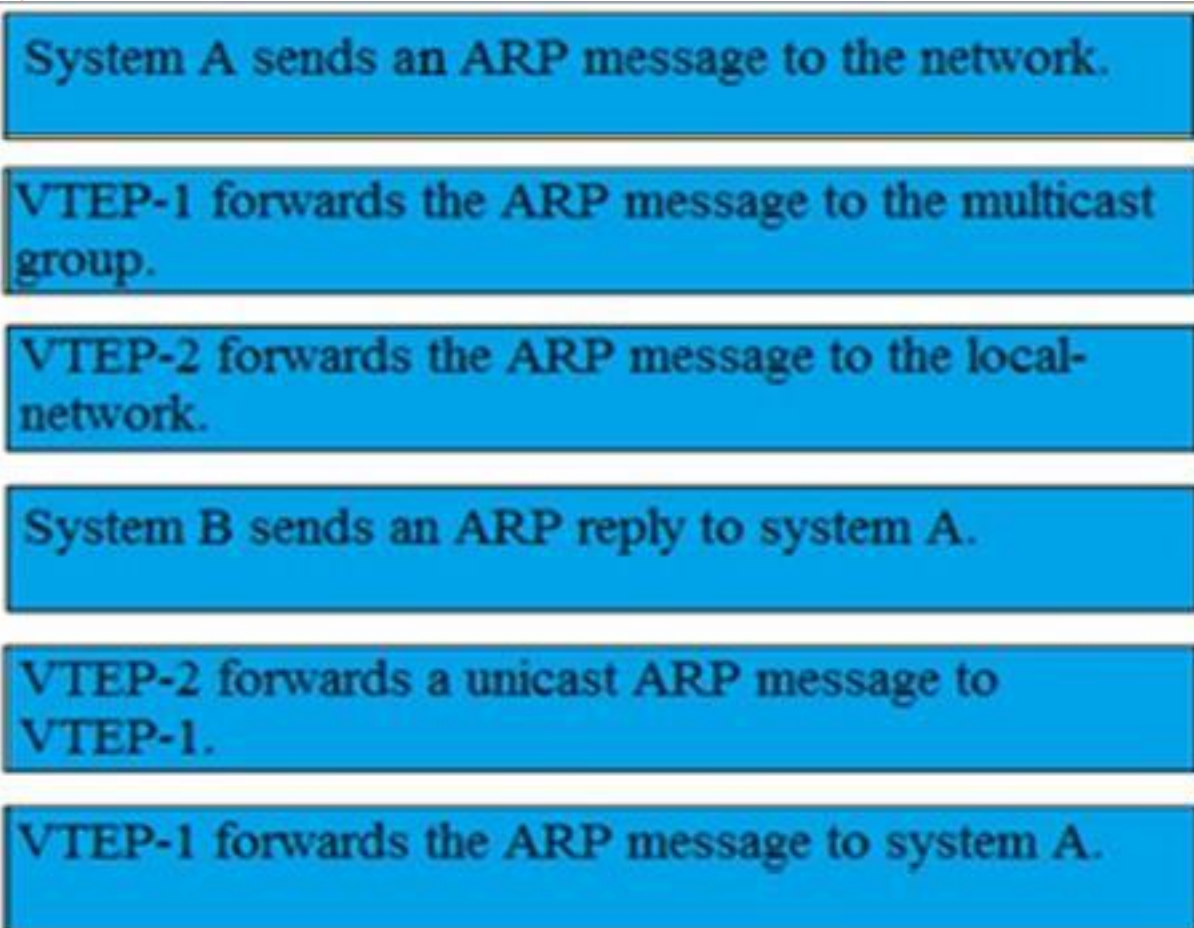
Drag and drop the peer discovery steps from the left into the correct order on the right.

System A sends an ARP message to the network.	step 1
System B sends an ARP reply to system A.	step 2
VTEP-1 forwards the ARP message to system A.	step 3
VTEP-1 forwards the ARP message to the multicast group.	step 4
VTEP-2 forwards a unicast ARP message to VTEP-1.	step 5
VTEP-2 forwards the ARP message to the local network.	step 6

Answer:



Explanation



NO.28 Which command enables NPIV on Cisco Nexus 5000 Series Switches and Cisco MDS switches?

- A. switch(config)# npiv enable
- B. switch(config)# np proxy-enable
- C. switch(config)# feature npiv
- D. switch(config)# npivon

E. switch(config)# npiv proxy

Answer: C

Explanation

This command enables NPIV for all VSANs on the switch.

Reference: <http://www.cisco.com/c/en/us/td/docs/switc>

hes/datacenter/sw/nx-os/san_switching/configuration/guide/b_Cisco_Nexus_7000_NX-OS_SAN_Switching_Co

NO.29 VSANs and SAN Zoning have similar security goals, but also have different qualities. Drag the characteristic on the left to the appropriate column heading (VSAN or Zoning) on the right.

VSANs and SAN Zoning have similar security goals, but also have different qualities. Drag the characteristic on the left to the appropriate column heading (VSAN or Zoning) on the right.

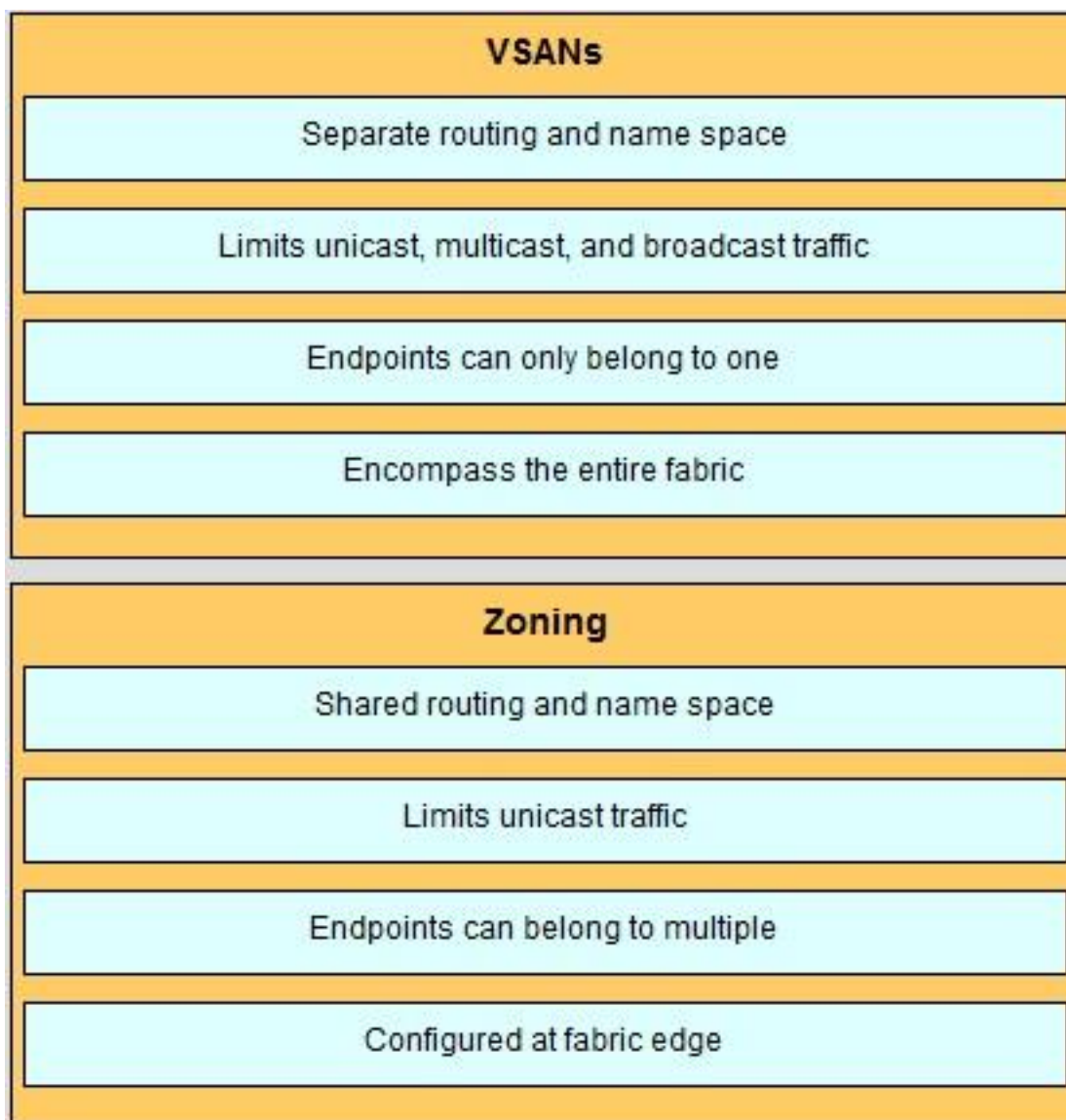
Limits unicast, multicast, and broadcast traffic	VSANs
Endpoints can only belong to one	
Shared routing and name space	
Limits unicast traffic	
Separate routing and name space	
Endpoints can belong to multiple	
Configured at fabric edge	
Encompass the entire fabric	
	Zoning

Answer:

VSANs and SAN Zoning have similar security goals, but also have different qualities. Drag the characteristic on the left to the appropriate column heading (VSAN or Zoning) on the right.

Limits unicast, multicast, and broadcast traffic	VSANs
Endpoints can only belong to one	
Shared routing and name space	
Limits unicast traffic	
Separate routing and name space	Zoning
Endpoints can belong to multiple	
Configured at fabric edge	
Encompass the entire fabric	

Explanation



VSAN Characteristic	Zone Characteristic
VSANs equal SANs with routing, naming, and zoning protocols.	Routing, naming, and zoning protocols are not available on a per-zone basis.
VSANs limit unicast, multicast, and broadcast traffic.	Zones limit unicast traffic.
Membership is typically defined using the VSAN ID to F ports.	Membership is typically defined by the pWWN.
An HBA or a storage device can belong only to a single VSAN (the VSAN associated with the F port).	An HBA or storage device can belong to multiple zones.
VSANs enforce membership at each E port, source port, and destination port.	Zones enforce membership only at the source and destination ports.
VSANs are defined for larger environments (storage service providers).	Zones are defined for a set of initiators and targets not visible outside the zone.
VSANs encompass the entire fabric.	Zones are configured at the fabric edge.

NO.30 Which four statements about reserved VLANs in Cisco NX-OS are true? (Choose four.)

- A.** The configuration must be saved for changes to take place.
- B.** The number of reserved VLANs is 96.

- C. The range of reserved VLANs cannot be changed.
- D. A reload is needed for changes to take place.
- E. The number of reserved VLANs is 128.
- F. A write-erase procedure restores the default reserved VLAN range.
- G. A change to the range of reserved VLANs can be performed only in the VDC default.

Answer: A,D,E,G