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Implementing Cisco Data Center Infrastructure

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QUESTION 1

Refer to the exhibit.

```
switch(config)# spanning-tree mst 0 root primary diameter 5
switch(config)# spanning-tree mst configuration
switch(config-mst)# instance 1 vlan 5-9
switch(config-mst)# name region1
switch(config-mst)# revision 1
switch(config-mst)# show pending
Pending MST configuration
Name [region1]
Revision 1
Instances configured 2
Instance Vlans Mapped
-----
0 1-4,10-4094
1 5-9
-----
```



What does the diameter command specify?

- A. the maximum number of hops between any two bridges on a network.
- B. the number of VLANs that were removed from the MSTI.
- C. the VLAN that becomes the root of the MSTI
- D. the maximum number of hops between any two MST instances on a network

Correct Answer: D

QUESTION 2

Without having access to Fabric Path show commands, how can you confirm whether Fabric Path is configured on the two vPC peer 7K-3 and 7K-4?

- A. Show vpc would not indicate any downstream virtual port channel vPC parameter with active VLANs
- B. Show vpc role on both 7K-3 and 7K-4 would indicate their role as primary
- C. Show interface would indicate port-channel 1 and 2 would use a port mode of Fabric path 0.
- D. Show hsrp would be blank, since FHRP is not supported or required when using Fabric Path

Correct Answer: A

QUESTION 3

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 number of times the log can roll over
- C. the directory to save the log file to
- D. the severity threshold of the messages to log

Correct Answer: D

QUESTION 4

What are two requirements for configuring SAN device aliases? (Choose two.)

- A. The aliases are independent between fabric nodes.
- B. The aliases can be assigned to WWPN and WWNN.
- C. The aliases can be assigned to WWNN only.
- D. The aliases can be assigned to WWPN only.
- E. The aliases must be 64 characters or less.

Correct Answer: DE

Explanation: References:

QUESTION 5

You have a Cisco Fabric Path network, you must extend the network to support more than 16 million segment, what should you do?

- A. Enable the interface-vlan feature and configure the VLAN IDs
- B. Enable the nv overlay feature and configure the segment IDs
- C. Enable the vn-segment-vlan-based feature and configure segment IDs
- D. Enable the FabricPath feature and configure the VLAN IDs.

Correct Answer: A

Explanation: <https://www.cisco.com/c/en/us/products/collateral/switches/nexus-7000-series-switches/white-paper-c11-737022.html>

QUESTION 6

You have a vPC configuration with two functional peers. The peer link is up and the peer-link feature is restricted the

spanning-tree operations in the configuration? (choose two)

- A. vPC imposes a rule that the peer link is always blocking.
- B. vPC removes some VLANs from the spanning tree for vPC use.
- C. The primary and secondary switch generate and process BPDUs.
- D. vPC requires the peer link to remain in the forwarding state.
- E. The secondary switch processes BPDUs only if the peer-link fails.

Correct Answer: CD

QUESTION 7

Which three attributes encompass a local user account on a Cisco NX-OS device? (Choose three.)

- A. expiration date
- B. cisco-avpair
- C. password
- D. AAA server address
- E. user roles
- F. bind user DN
- G. user privileges

Correct Answer: ACE

QUESTION 8

Refer to the exhibit.

```
N7K-1(config)# feature vpc
N7K-1(config)# vpc domain 113
N7K-1(config-vpc-domain)# peer-gateway
N7K-1(config-vpc-domain)#

N7K-2(config)# feature vpc
N7K-2(config)# vpc domain 113
N7K-2(config-vpc-domain)# peer-gateway
N7K-2(config-vpc-domain)#
```



What is the consequence of configuring peer-gateway on the two vPC peers N7K-1 and N7K-2?

- A. Nothing, this is the standard vPC configuration to make the feature work.

- B. The downstream device detects only one of the vPC peers as its gateway.
- C. The downstream device can use DMAC of N7K-1 on the link to N7K-2, and N7K-2 forwards the packet.
- D. This configuration enables the downstream device to use DHCP to obtain its default gateway.

Correct Answer: C

Beginning with Cisco NX-OS 4.2(1), you can configure vPC peer devices to act as the gateway even for packets that are destined to the vPC peer device's MAC address. Use the peer-gateway command to configure this feature. Some network-attached storage (NAS) devices or load-balancers may have features aimed to optimize the performances of particular applications. Essentially these features avoid performing a routing-table lookup when responding to a request that originated from a host not locally attached to the same subnet. Such devices may reply to traffic using the MAC address of the sender Cisco Nexus 7000 device rather than the common HSRP gateway. Such behavior is non-complaint with some basic Ethernet RFC standards. Packets reaching a vPC device for the non-local router MAC address are sent across the peer-link and could be dropped by the built in vPC loop avoidance mechanism if the final destination is behind another vPC. The vPC peer-gateway capability allows a vPC switch to act as the active gateway for packets that are addressed to the router MAC address of the vPC peer. This feature enables local forwarding of such packets without the need to cross the vPC peer-link. In this scenario, the feature optimizes use of the peer-link and avoids potential traffic loss. Configuring the peer-gateway feature needs to be done on both primary and secondary vPC peers and is non-disruptive to the operations of the device or to the vPC traffic. The vPC peer-gateway feature can be configured globally under the vPC domain submode. When enabling this feature it is also required to disable IP redirects on all interface VLANs mapped over a vPC VLAN to avoid generation of IP redirect messages for packets switched through the peer gateway router. When the feature is enabled in the vPC domain, the user is notified of such a requirement through an appropriate message. Packets arriving at the peer-gateway vPC device will have their TTL decremented, so packets carrying TTL = 1 may be dropped in transit due to TTL expire. This needs to be taken into account when the peer-gateway feature is enabled and particular network protocols sourcing packets with TTL = 1 operate on a vPC VLAN.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/4_2/nx-os/interfaces/configuration/guide/if_nxos/if_vPC.html

QUESTION 9

Which statement about the implementation of Cisco TrustSec on Cisco Nexus 7000 Series Switches is true?

- A. While SGACL enforcement and SGT propagation are supported on the M and F modules, 802.1AE (MACsec) support is available only on the M module.
- B. SGT Exchange Protocol is required to propagate the SGTs across F modules that lack hardware support for Cisco TrustSec.
- C. AAA authentication and authorization is supported using TACACS or RADIUS to a Cisco Secure Access Control Server.
- D. Both Cisco TrustSec and 802.1X can be configured on an F or M module interface.

Correct Answer: A

The M-Series modules on the Nexus 7000 support 802.1AE MACSEC on all ports, including the new M2-series modules. The F2e modules will have this feature enabled in the future.

It is important to note that because 802.1AE MACSEC is a link-level encryption, the two MACSEC-enabled endpoints, Nexus 7000 devices in our case, must be directly L2 adjacent. This means we direct fiber connection or one facilitated with

optical gear is required. MACSEC has integrity checks for the frames and intermediate devices, like another switch, even at L2, will cause the integrity checks to fail. In most cases, this means metro-Ethernet services or carrier-provided label

switched services will not work for a MACSEC connection.

Reference: <http://www.ciscopress.com/articles/article.asp?p=2065720>

QUESTION 10

After enabling strong, reversible 128-bit Advanced Encryption Standard password type-6 encryption on a Cisco Nexus 7000, which command would convert existing plain or weakly encrypted passwords to type-6 encrypted passwords?

- A. switch# key config-key ascii
- B. switch(config)# feature password encryption aes
- C. switch# encryption re-encrypt obfuscated
- D. switch# encryption decrypt type6

Correct Answer: C

This command converts existing plain or weakly encrypted passwords to type-6 encrypted passwords.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/5_x/nx-os/security/configuration/guide/b_Cisco_Nexus_7000_NX-OS_Security_Configuration_Guide__Release_5-x/b_Cisco_Nexus_7000_NXOS_Security_Configuration_Guide__Release_5-x_chapter_010101.html

QUESTION 11

Drag and drop the types of spanning tree ports from the left onto the correct descriptions on the right

Select and Place:

edge	supports 802.1Q to a host immediately
edge trunk	moves through the regular STP transitions
network	transitions to the forwarding state immediately
normal	enables Bridge Assurance

Correct Answer:



Edge = edge port interface immediately transitions to the forwarding state
Edge trunk = supports 802.1Q to a host immediately
Network = enables Bridge Assurance
Normal = moves through the regular STP transactions

QUESTION 12

Which protocol is the foundation for unified fabric as implemented in Cisco NX-OS?

- A. Fibre Channel
- B. Data Center Bridging
- C. Fibre Channel over Ethernet
- D. N proxy virtualization
- E. N Port identifier virtualization

Correct Answer: C

Fibre Channel over Ethernet (FCoE) is one of the major components of a Unified Fabric. FCoE is a new technology developed by Cisco that is standardized in the Fibre Channel Backbone 5 (FC-BB-5) working group of Technical Committee T11 of the International Committee for Information Technology Standards (INCITS). Most large data centers have huge installed bases of Fibre Channel and want a technology that maintains the Fibre Channel model. FCoE assumes a lossless Ethernet, in which frames are never dropped (as in Fibre Channel) and that therefore does not use IP and TCP.

Reference: http://www.cisco.com/c/en/us/products/collateral/switches/nexus-5000-series-switches/white_paper_c11-495142.html

QUESTION 13

Which implicit rules are applied to all IPv6 ACLs?

- A. deny icmp any any nd-na deny icmp any any nd-ns permit icmp any any router-advertisement permit icmp any any router-solicitation deny ipv6 any any
- B. deny icmp any any nd-na log deny icmp any any nd-ns log deny ipv6 any any log
- C. deny icmp any any router-advertisement log deny icmp any any router-solicitation log deny ipv6 any any log
- D. permit icmp any any nd-na permit icmp any any nd-ns permit icmp any any router-advertisement permit icmp any any router-solicitation deny ipv6 any any

router-solicitation deny ipv6 any any

Correct Answer: D

QUESTION 14

Using the default VDC high-availability options in the Cisco Nexus 7010 switch, which event occurs after a VDC failure?

- A. VDC restart occurs.
- B. The VDC is deleted.
- C. VDC bringdown occurs, and the VDC must be restarted manually.
- D. VDC shutdown occurs, and the VDC must be restarted manually.

Correct Answer: D

QUESTION 15

Which topology is not supported when using vPC?

- A. a single-homed server to a single FEX that is connected to two Cisco Nexus 5500 Series Switches
- B. a dual-homed server to two FEXs, each connected to two Cisco Nexus 5500 Series Switches
- C. a dual-homed server to two FEXs that are connected to one Cisco Nexus 5500 Series Switch
- D. a dual-homed server to a single FEX that is connected to two Cisco Nexus 5500 Series Switches

Correct Answer: C

The figure shows unsupported topology where a vPC is between hosts and two FEXs that are connected to one Cisco Nexus 5500 Series device. This topology does not provide a good high availability solution because the server loses the connectivity to the network when the Cisco Nexus 5000 Series device fails.

Figure: Unsupported Topology--Host vPC With One Cisco Nexus 5000 Series Device



If you need to connect a multi-homing server to a pair of FEXs when there is only one Cisco Nexus 5000 Series device,

you have the option to run active or standby NIC teaming from the server.

Reference:

http://www.cisco.com/en/US/docs/switches/datacenter/nexus5000/sw/mkt_ops_guides/513_n1_1/n5k_enhanced_vpc.html

QUESTION 16

Refer to the exhibit.

```
Switch(config)# snmp-server user all enforcePriv
```



Which option is expected outcome on the configured switch?


- A. The switch enforces SNMP message encryption for all users
- B. The switch responds with an authorization error for any SNMPv3 PDU requests that use a security level parameter.
- C. SNMP requires encryption for all incoming requests
- D. The switch enforces SNMP message encryption for the user all.

Correct Answer: D

QUESTION 17

Refer to the exhibit.

```
N7k-1# show runing-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 11 vpc domain 11 fabricpath switch-id 1100
- B. fabricpath switch-id 12 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

Correct Answer: B

QUESTION 18

Which two items are features that are available in VN-Link in software? (Choose two.)

- A. VM snapshot
- B. NetFlow
- C. ERSPAN
- D. high availability
- E. resource reservations

Correct Answer: BC

NetFlow is a feature that was introduced on Cisco routers that provides the ability to collect IP network traffic as it enters or exits an interface. By analyzing the data provided by NetFlow, a network administrator can determine things such as the source and destination of traffic, class of service, and the causes of congestion. A typical flow monitoring setup (using NetFlow) consists of three main components:

Flow exporter: aggregates packets into flows and exports flow records towards one or more flow collectors.

Flow collector: responsible for reception, storage and pre-processing of flow data received from a flow exporter.

Analysis application: analyzes received flow data in the context of intrusion detection or traffic profiling,

This module describes how to configure Encapsulated Remote Switched Port Analyzer (ERSPAN). The Cisco ERSPAN feature allows you to monitor traffic on one or more ports or VLANs and send the monitored traffic to one or more

destination ports.

Reference: <http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/lanswitch/configuration/xe-3s/lanswitch-xe-3s-book/lsw-conf-erspan.html>

QUESTION 19

Which command ensures that a learned MAC address is stored within NVRAM?

- A. switchport port-security mac-address address [vlan vlan-ID]
- B. switchport port-security
- C. switchport port-security mac-address sticky
- D. feature port-security

Correct Answer: C

QUESTION 20

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. NVRAM
- D. RAM

Correct Answer: C

Explanation: References:

QUESTION 21

Which three selections represent implementations of Cisco VN-Link technology? (Choose three.)

- A. Cisco Nexus 1000V
- B. Cisco Nexus 2000 FEX
- C. Cisco VM-FEX
- D. VMware PTS
- E. vMotion

Correct Answer: ACD

The VM is powered on and resides on the ESX Host 1 with all the information stored on the shared storage.

The VM was connected to the PODy (where y is the number of your POD) PTS VDS by associating it to port group VLAN61 that was created on the Cisco Nexus 5548 device. The VM has been connected to the vPC system automatically using a VN-Link in the hardware in PTS mode or in VM-FEX mode.

The VEM bits are used in PTS mode to connect the VM VNIC to the VMNIC interface.

In this case, the VMNIC interface is not a real VMNIC but a dynamic VNIC that is presented as an interface to the ESX OS. The dynamic VNIC is enabled when the Cisco UCS VIC creates and configures the VNIC parameters inherited from port group VLAN61.

Reference:

http://www.cisco.com/en/US/docs/switches/datacenter/nexus5000/sw/mkt_ops_guides/513_n1_1/n5k_ops_vmfex.html

QUESTION 22

Which statement about scalability in Cisco OTV is true?

- A. The control plane avoids flooding by exchanging MAC reachability.
- B. IP-based functionality provides Layer 3 extension over any transport.
- C. Any encapsulation overhead is avoided by using IS-IS.
- D. Unknown unicasts are handled by the authoritative edge device.

Correct Answer: A

Cisco calls the underlying concept of OTV traffic forwarding "MAC routing", since it behaves as if you are routing Ethernet frames over the DCI transport. OTV uses a control plane protocol to proactively propagate MAC address reachability before traffic is allowed to pass, which eliminates dependency on flooding mechanism to either learn MAC addresses or forward unknown unicasts.

Reference: <http://www.computerworld.com/article/2515468/data-center/layer-2-data-center-interconnect-options.html>

QUESTION 23

Which two Cisco Nexus platforms support Adapter FEX? (Choose two.)

- A. Cisco Nexus 7000 Series Switches
- B. Cisco Nexus 5000 Series Switches
- C. Cisco Nexus 5500 Series Switches
- D. Cisco Nexus 4000 Series Switches
- E. Cisco Nexus 2000 Series Fabric Extenders

Correct Answer: CE

At the access layer, the Adapter-FEX requires a FEX-enabled adapter on a server that connects to a parent device that supports virtualization of interfaces. The Adapter-FEX is supported on the following platforms:

?

The Cisco Unified Computing System (UCS) platform supports Adapter-FEX between UCS

?

The Adapter-FEX is supported on the Cisco Nexus 5500 Series platform and on the Cisco Nexus 2200 Fabric Extender that is connected to a Cisco Nexus 5500 Series parent device. This implementation works on a variety of FEX-capable

adapters, including the Cisco UCS P81E virtual interface card (VIC) adapter for the UCS C-Series platform and third party adapters such as the Broadcom BCM57712 Convergence Network Interface Card, that implement the virtual network

tag (VNTag) technology.

Reference:

http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/operations/adapt_er_fex/513_n1_1/ops_adapter_fex/ops_using_adapter_fex.html

QUESTION 24

Which statement about electronic programmable logic device image upgrades is true?

- A. EPLD and ISSU image upgrades are nondisruptive.
- B. An EPLD upgrade must be performed during an ISSU system or kickstart upgrade.
- C. Whether the module being upgraded is online or offline, only the EPLD images that have different current and new versions are upgraded.
- D. You can execute an upgrade or downgrade only from the active supervisor module.

Correct Answer: D

You can upgrade (or downgrade) EPLDs using CLI commands on the Nexus 7000 Series device. Follow these guidelines when you upgrade or downgrade EPLDs:

You can execute an upgrade from the active supervisor module only. All the modules, including the active supervisor module, can be updated individually. ?

You can individually update each module whether it is online or offline as follows: ?

If you upgrade EPLD images on an online module, only the EPLD images with version numbers that differ from the new EPLD images are upgraded. ?

If you upgrade EPLD images on an offline module, all of the EPLD images are upgraded. ?

On a system that has two supervisor modules, upgrade the EPLDs for the standby supervisor and then switch the active supervisor to standby mode to upgrade its EPLDs. On a system that has only one supervisor module, you can upgrade the active supervisor, but this will disrupt its operations during the upgrade. ?

If you interrupt an upgrade, you must upgrade the module that is being upgraded again. ?

The upgrade process disrupts traffic on the targeted module. ?

Do not insert or remove any modules while an EPLD upgrade is in progress.

QUESTION 25

Which two functions are enabled when you set up vPC+ at the FabricPath edge? (Choose two.)

- A. the ability to attach Cisco Fabric Extenders in FEX active/active mode

- B. the ability to stop all Layer 3 egress traffic
- C. the ability to attach servers to edge switches with port-channel teaming
- D. the ability to attach additional Classic Ethernet switches in vPC+ mode

Correct Answer: AC

QUESTION 26

When implementing Cisco Adapter FEX, which setting on the virtual interface card on the Cisco UCS C-Series Server must be configured?


- A. uplink failover
- B. PXE boot
- C. network interface virtualization
- D. VM-FEX

Correct Answer: C

QUESTION 27

Refer to the exhibit.

```
mac access-list mac-01
  permit 11c0.0000.0000.0000.ffff.ffff any
vlan access-map acl-mac
  match mac address mac-01
  action forward
vlan filter acl-mac vlan-list 100-120
```



What is the result of the configuration?

- A. A MAC address of 11c0.adaa.3213 is denied.
- B. The MAC ACL is applied to VLANs 10-120.
- C. The MAC ACL denies a MAC address of 1122.2847.4591 on VLAN 101.
- D. A MAC address of 11c0.adaa.3213 is permitted.

Correct Answer: A

QUESTION 28

Which option accurately describes the implementation of Fibre Channel domain IDs?

- A. Are assigned on a peer-switch basis
- B. Are assigned on a per-line card basis
- C. Must be the same on all on the Fibre Channel switch in the fabric
- D. Must be unique on all the Fibre Channel switches in the fabric

Correct Answer: A

QUESTION 29

Which command should you run to limit IS-IS LSP flooding on a network?

- A. isis hello-padding
- B. isis passive-interface
- C. is-type level-1
- D. isis mesh-group ISIS-MESH

Correct Answer: D

QUESTION 30

Which command configures the aging time for VLAN 100 to 50 minutes?

- A. mac address-table aging-time 3000 vlan 100
- B. mac address-table aging-time 50
- C. mac address-table aging-time 300
- D. mac address-table aging-time 50 vlan 100

Correct Answer: A

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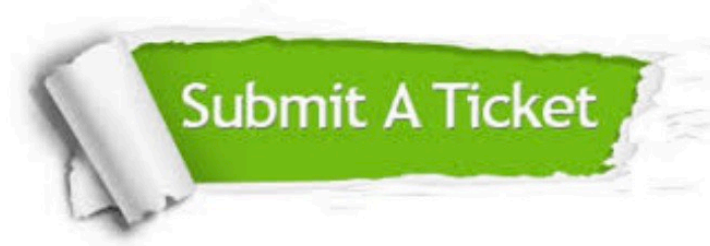
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