300-165^{Q&As}

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Implementing Cisco Data Center Infrastructure

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QUESTION 1

Drag and drop the spanning tree types on the left to their 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 trunk
		normal
		edge
		network

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 2

Which two components do you enable to allow the creation of an f-port-channel-trunk? (Choose two.)

A. f-port-channel-trunk

B. LACP

C. NPIV

D. NPV

E. LLDP

Correct Answer: CD

QUESTION 3

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 4

Instructions

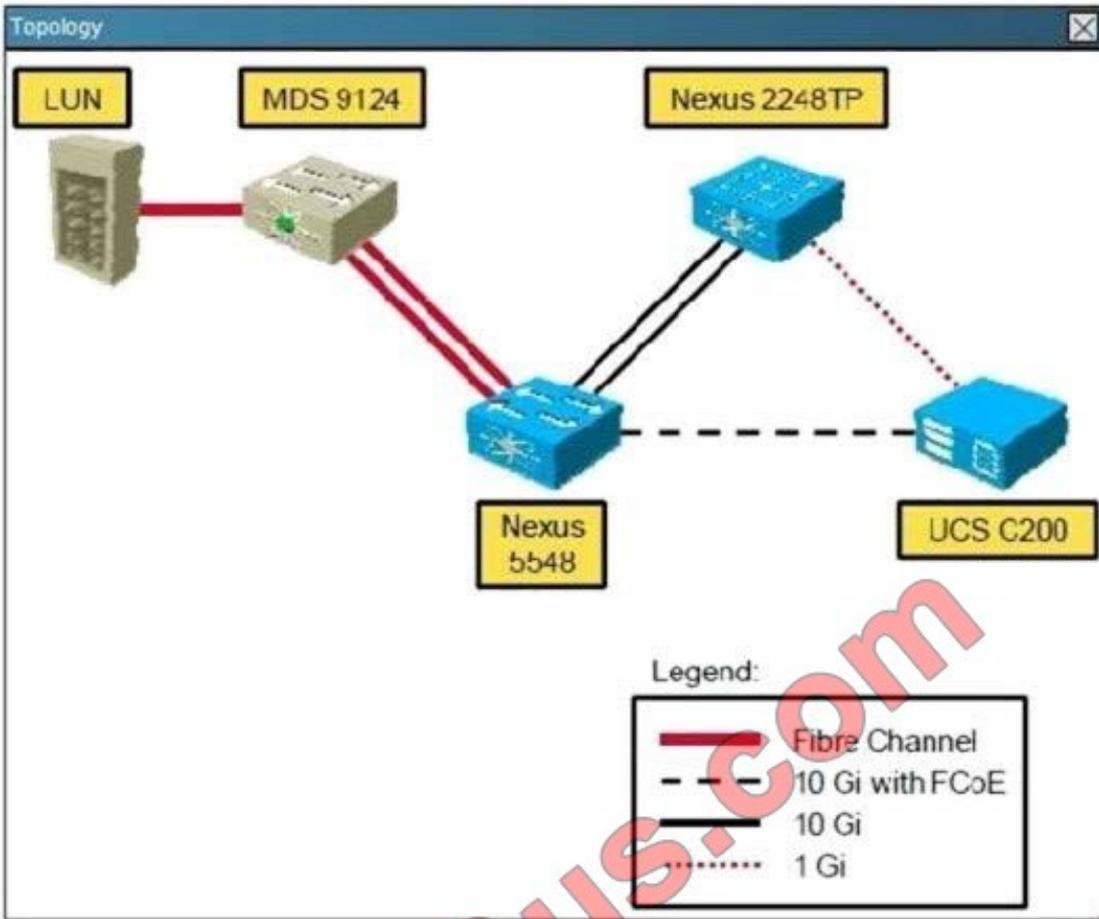This task does not require device configuration.

Click Cisco Nexus 5548 to gain console access. No console or enable passwords are required.

To access the multiple-choice questions, click the numbered boxes on the left of the top panel.

There are four multiple-choice questions with this task.

Scenario

Customer is deploying Cisco Nexus 5548 switch with FCoE in their new data center, as shown in the topology diagram. Click Nexus5548 icon to run show commands and answer the questions.

Topology

LUN   MDS 9124   Nexus 2248TP

Nexus
5548   UCS C200

Legend:

_____ Fibre Channel
- - - - - - 10 Gi with FCoE
_____ 10 Gi
.... 1 Gi

Nexus 5548

Nexus 5548#

Ethernet interface 1/5 on Cisco Nexus 5548 is connected to Cisco UCS C220 rack server. What is the status of Ethernet 1/5 interface for FCoE functionality?

A. Interface reset on Ethernet 1/5 is preventing the FCoE connection from coming up

B. MTU size of 1500 on Ethernet interface 1/5 needs to be changed for FCoE to come UP

C. Cisco Nexus 5548 needs a layer 3 daughter card for FCoE to come UP on the Ethernet interface 1/5

D. Ethernet interface 1/5 is operational for FCoE and the status is UP

Correct Answer: D

QUESTION 5

Which configuration is specific to Cisco TelePresence System seed devices?

A. radius server radius-server-name

B. aaa session-id common

C. radius-server vsa send authentication

D. aaa new-model

Correct Answer: A

QUESTION 6

Instructions
- Go through NX-OS CLI captures in Exhibits 1 through 5 to answer the questions.
- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION
- To access the multiple-choice questions, click the numbered boxes at 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.

Scenario
Customer is deploying Cisco FabricPath in their new data center as shown in the topology diagram. Go through NX-OS CLI captures in Exhibits 1 through 5 to answer the questions.
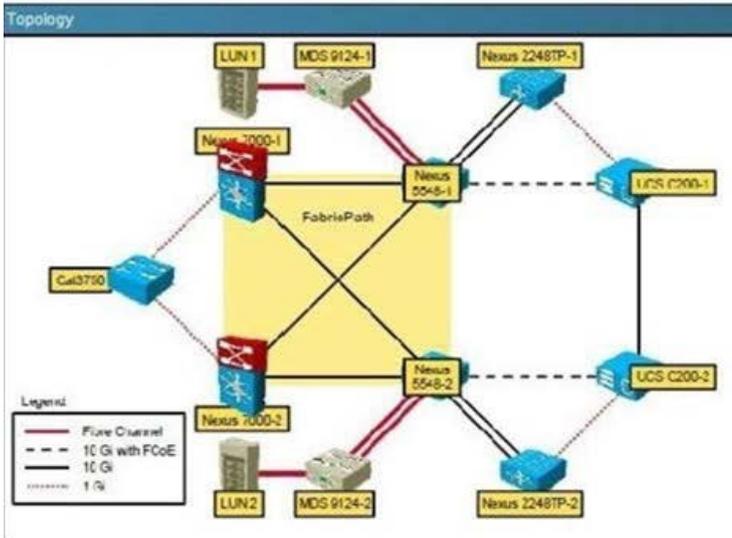
Topology

Exhibit 1

```
Nexus7000-1#show feature-set
Feature Se. Name       ID        State
---------------------  --------  --------
fabricpath             2         enabled
fcx                    3         disabled

Nexus7000-1#
```

Exhibit 2

```
Nexus7000-1# show feature-set services fabricpath
u2rib
drap
isis_l2mp
3 services 1r feature set fabricpath
Nexus7000-1#
```

Exhibit 3

```
Nexus7000-1# config terminal

Nexus7000-1#(config)# fabricpath switch-id 23

Nexus7000-1#(config)#
```

Exhibit 4

```
Nexus7000-1# config terminal

Nexus7000-1#(config)# fabricpath timer allocate-delay 600

Nexus7000-1#(config)#
```

Exhibit 5

```
Nexus7000-1# config terminal

Nexus7000-1#(config)# fabricpath load-balance unicast layer3

Nexus7000-1#(config)#

Nexus7000#(config)# sh fabricpath load-balance

ECMP load-balancing configuration:

L3/L4 Preference: Mixed

Rotate amount: 14 bytes

Use VLAN: TRUE

Ftag load-balancing configuration:

Rotate amount: 3 bytes

Use VLAN: TRUE
```

On a Cisco Nexus7000 switches what is true regarding Cisco FabricPath requirements?

A. Ensure that you have installed the Enhanced Layer 2 license and that you have installed an F Series module

B. Ensure that you have installed the Enhanced Layer 2 license and that you have installed an M Series module

C. Ensure that you have installed the Enhanced Layer 3 license and that you have installed an M Series module

D. Ensure that you have installed the Scalable Feature License license and that you have installed an F Series module

Correct Answer: A

FabricPath switching has the following prerequisites:

You should have a working knowledge of Classical Ethernet Layer 2 functioning.

You must install the FabricPath feature set on the default and nondefault VDC before you enable FabricPath on the switch.

See Configuring Feature Set for FabricPath for information on installing the FabricPath feature set.

You are logged onto the device.

Ensure that you have installed the Enhanced Layer 2 license.

You are in the correct virtual device context (VDC). A VDC is a logical representation of a set of system resources.

You can use the switchto vdc command with a VDC number.

You are working on the F Series module.

http://www.cisco.com/en/US/docs/switches/datacenter/sw/5_x/nx-os/fabricpath/configuration/guide/fp_switching.html

---

QUESTION 7

Which command activates the port security database for VSAN 1 regardless of conflicts?

A. port-security commit vsan 1

B. no port-security auto-learn vsan 1

C. port-security activate vsan 1 force

D. port-security database vsan 1

Correct Answer: C

QUESTION 8

Which two features are required to implement a Layer 3 VXLAN gateway on the Cisco Nexus 5600 Series platform? (Choose two.)

A. feature mpls

B. feature nv overlay

C. feature lldp

D. feature eigrp

E. feature vn-segment-vlan-based

Correct Answer: BE

Reference: http://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/asr9k_r5-3/lxvpn/configuration/guide/b-l3vpn-cg53xasr9k/b-l3vpn-cg53xasr9k_chapter_0111.pdf

QUESTION 9

```
switch# configure terminal
switch(config)# install feature-set fabricpath
switch(config)# feature-set fabricpath
switch(config)# feature vn-segment-vlan-based

switch# configure terminal
switch(config)# vlan 90
switch(config-vlan)# mode fabricpath
switch(config-vlan)# vn-segment 4096
```

Refer to the exhibit. Which type of domain does the configuration create?

A. Layer 3 local

B. Layer 2 global

C. Layer 3 global

D. Layer 2 local

Correct Answer: B

QUESTION 10

Refer to the exhibit. The ISSU fails. Which option do you change to resolve the issue?

```
Nexus# sh lacp issu-impact
For ISSU to Proceed, Check the following:
1. All port-channel member port should be in a steady state.
2. LACP rate fast should not be enabled on satellite member ports.

The following ports are not ISSU ready
Eth1/3      ,
```

A. local LACP mode to Passive

B. remote LACP_Timeout value to 1 second

C. local LACP_Timeout value to 30 seconds

D. remote LACP mode to Passive

Correct Answer: C

QUESTION 11

Which three VDC resources can be constrained with a resource template? (Choose three.)

A. CLs

B. NAT entries

C. IPv4 routes

D. IPv6 routes

E. SPAN sessions

F. RBAC users

Correct Answer: CDE

VDC resource templates set the minimum and maximum limits for shared physical device resources when you create the VDC. The Cisco NX-OS software reserves the minimum limit for the resource to the VDC. Any resources allocated to the VDC beyond the minimum are based on the maximum limit and availability on the device.

You can explicitly specify a VDC resource template, or you can use the default VDC template provided by the Cisco NX-OS software. VDC templates set limits on the following resources: IPv4 multicast route memory IPv6 multicast route memory IPv4 unicast route memory IPv6 unicast route memory Port channels Switch Port Analyzer (SPAN) sessions VLANs Virtual routing and forwarding instances (VRFs)

http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/virtual_device_context/configuration/guide/b-7k-Cisco-Nexus-7000-Series-NX-OS-Virtual-Device-Context-Configuration-Guide/vdc-res-template.html

QUESTION 12

Refer to the exhibit. Which fabric-provided MAC address does the switch use when connecting to an end node on VSAN 9?

```
fcoe fcmap 0e.fc.00
fcoe fcf-priority 42
fcoe fka-adv-period 42

fcdomain fcid persistent vsan 2
fcdomain fcid database
vsan 9 wwn 40:15:18:c2:00:61:c7:a1 fcid 0x5eff01 area
```

A. 40.15.18.5e.ff.01

B. 0e.fc.00.5e.ff.01

C. 5e.ff.01.0e.fc.00

D. 40.15.18.oe.fc.00

Correct Answer: B

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