



# 642-997<sup>Q&As</sup>

Implementing Cisco Data Center Unified Fabric

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**QUESTION 1**

Which feature must be enabled for Cisco TrustSec FC Link Encryption to work on a Cisco MDS 9000 Series Switch?

- A. crypto IKE
- B. port security
- C. LDAP
- D. FC-SP

Correct Answer: D

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**QUESTION 2**

Which FCoE component is responsible for the encapsulation and de-encapsulation of Fibre Channel frames in Ethernet?

- A. distributed FCF
- B. FCoE node
- C. FCoE logical endpoint
- D. Fibre Channel forwarder
- E. FCoE forwarder

Correct Answer: C

The FCoE Logical Endpoint (FCoE\_LEP) is responsible for the encapsulation and deencapsulation functions of the FCoE traffic. FCoE\_LEP has the standard Fibre Channel layers, starting with FC-2 and continuing up the Fibre Channel Protocol stack.

Reference: <https://www.safaribooksonline.com/library/view/ccna-data-center/9780133860429/ch11lev3sec5.html>

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**QUESTION 3**

How does addition of bandwidth between spine and leaf switches in a FabricPath architecture get utilized?

- A. Links between the same set of switches are automatically added to a port channel.
- B. Adding additional bandwidth is handled dynamically using the 802.1AX protocol.
- C. Traffic is load shared automatically across the available paths to the destination.
- D. FabricPath uses hardware bonding of physical interfaces to form higher-speed links.

Correct Answer: C

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**QUESTION 4**

When creating a VDC on a Cisco Nexus 7000 switch, which command in the VDC designates that only 10 port channels can be created in that VDC?

- A. allocate resource port-channel 10
- B. limit-resource port-channel minimum 0 maximum 10
- C. allow-resource port-channel maximum 10
- D. port-channel maximum 10

Correct Answer: B

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**QUESTION 5**

Which command is used to associate EID-to-RLOC for a LISP site?

- A. #feature lisp
- B. #ipv6 lisp itr
- C. #ip lisp database-mapping
- D. #ip lisp itr map-resolver

Correct Answer: C

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**QUESTION 6**

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 7

Which example creates an Embedded Event Manager policy allowing the CLI command to execute, and triggers an SNMP notification when a user enters configuration mode?

- A. 

```
event manager applet TRACK_CONFIG
event cli match "conf t"
action 1.0 snmp-trap strdata "Configuration change"
action 2.0 event-default
```
- B. 

```
event manager applet TRACK_CONFIG
event cli match "conf t"
action 1.0 snmp-trap strdata "Configuration change"
```
- C. 

```
event manager applet TRACK_CONFIG
event cli "conf t"
action 1.0 snmp-trap strdata "Configuration change"
```
- D. 

```
event manager applet TRACK_CONFIG
event command "conf t"
action 1.0 snmp-trap strdata "Configuration change"
action 2.0 event-default
```

A. B. C. D.

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

## QUESTION 8



Which function does the graceful restart feature allow a Cisco Nexus 7000 Series router to perform?

- A. Perform a rapid route convergence.
- B. Initialize a standby supervisor transparently when one is present.
- C. Remain in the data forwarding path through a process restart.
- D. Maintain a management connection throughout a router restart.

Correct Answer: C

Graceful Restart and Non Stop Routing both allow for the forwarding of data packets to continue along known routes while the routing protocol information is being restored (in the case of Graceful Restart) or refreshed (in the case of Non Stop Routing) following a processor switchover. When Graceful Restart is used, peer networking devices are informed, via protocol extensions prior to the event, of the SSO capable routers ability to perform graceful restart. The peer device must have the ability to understand this messaging. When a switchover occurs, the peer will continue to forward to the switching over router as instructed by the GR process for each particular protocol, even though in most cases the peering relationship needs to be rebuilt. Essentially, the peer router will give the switching over router a "grace" period to re-establish the neighbor relationship, while continuing to forward to the routes from that peer.

Reference: [http://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/high-availability/solution\\_overview\\_c22-487228.html](http://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/high-availability/solution_overview_c22-487228.html)

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## QUESTION 9

Which two items are services that are provided by Cisco Fabric Services? (Choose two.)

- A. device alias distribution
- B. VLAN database distribution
- C. Kerberos proxy distribution
- D. RSA key pair distribution
- E. DPVM configuration distribution

Correct Answer: AE

The device alias application uses the Cisco Fabric Services (CFS) infrastructure to enable efficient database management and distribution. Device aliases use the coordinated distribution mode and the fabric-wide distribution scope. DPVM

can use CFS to distribute the database to all switches in the fabric. This allows devices to move anywhere and keep the same VSAN membership. You should enable CFS distribution on all switches in the fabric. Using the CFS infrastructure,

each DPVM server learns the DPVM database from each of its neighboring switches during the ISL bring-up process. If you change the database locally, the DPVM server notifies its neighboring switches, and that database is updated by all

switches in the fabric.

Reference:



<http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/configuration/guide/cli/CLIConfigurationGuide/ddas.html> and

[http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/san\\_switching/configuration/guide/b\\_Cisco\\_Nexus\\_7000\\_NX-OS\\_SAN\\_Switching\\_Configuration\\_Guide/Cisco\\_Nexus\\_7000\\_NXOS\\_SAN\\_Switching\\_Configuration\\_Guide\\_chapter4.html#concept\\_2B83E16506C845B39BDF96F9CAFFAEC3](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/san_switching/configuration/guide/b_Cisco_Nexus_7000_NX-OS_SAN_Switching_Configuration_Guide/Cisco_Nexus_7000_NXOS_SAN_Switching_Configuration_Guide_chapter4.html#concept_2B83E16506C845B39BDF96F9CAFFAEC3)

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### QUESTION 10

Which command enables NPIV on Cisco Nexus 5000 Series Switches and Cisco MDS switches?

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

Correct Answer: C

This command enables NPIV for all VSANs on the switch.

Reference: [http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/san\\_switching/configuration/guide/b\\_Cisco\\_Nexus\\_7000\\_NX-OS\\_SAN\\_Switching\\_Configuration\\_Guide/Cisco\\_Nexus\\_7000\\_NXOS\\_SAN\\_Switching\\_Configuration\\_Guide\\_chapter2.html](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/san_switching/configuration/guide/b_Cisco_Nexus_7000_NX-OS_SAN_Switching_Configuration_Guide/Cisco_Nexus_7000_NXOS_SAN_Switching_Configuration_Guide_chapter2.html)

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### QUESTION 11

Which command specifies a load-balancing method based on the MAC address of a host where the same forwarder is always used for a particular host while the number of GLBP group members remains unchanged?

- A. load-balancing host-dependent
- B. load-balancing mac-pinning
- C. load-balancing round-robin
- D. load-balancing weighted

Correct Answer: A

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### QUESTION 12

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.

Reference:

[http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/4\\_0/epld/release/notes/epld\\_rn.html](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/4_0/epld/release/notes/epld_rn.html)



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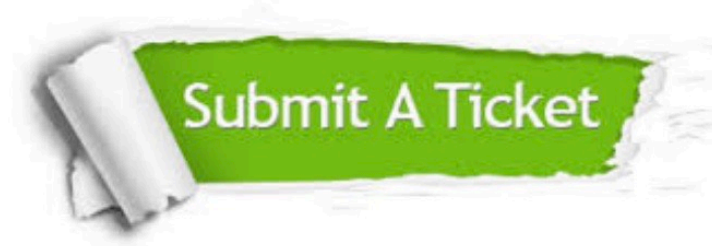
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