300-165^{Q&As}

Implementing Cisco Data Center Infrastructure

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QUESTION 1

Which statement about core-edge SAN topology is true?

A. Converged FCoE links connect the core and edge MDS switches.

B. The SAN core connects to the network aggregation layer.

C. Separate links with the same I/O are used for SAN and LAN traffic.

D. Storage devices are accessed via FCoE over the LAN network.

Correct Answer: B

The Aggregation layer of the data center provides connectivity for the Access layer switches in the server farm, an aggregates them into a smaller number of interfaces to be connected into the Core layer. In most data center environments, the Aggregation layer is the transition point between the purely Layer 3 routed Core layer, and the Layer 2switched Access layer. 802.1Q trunks extend the server farm VLANs between Access and Aggregation layers. The Aggregation layer also provides a common connection point to insert services into the data flows between clients and servers, or between tiers of servers in a multi-tier application.

QUESTION 2

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
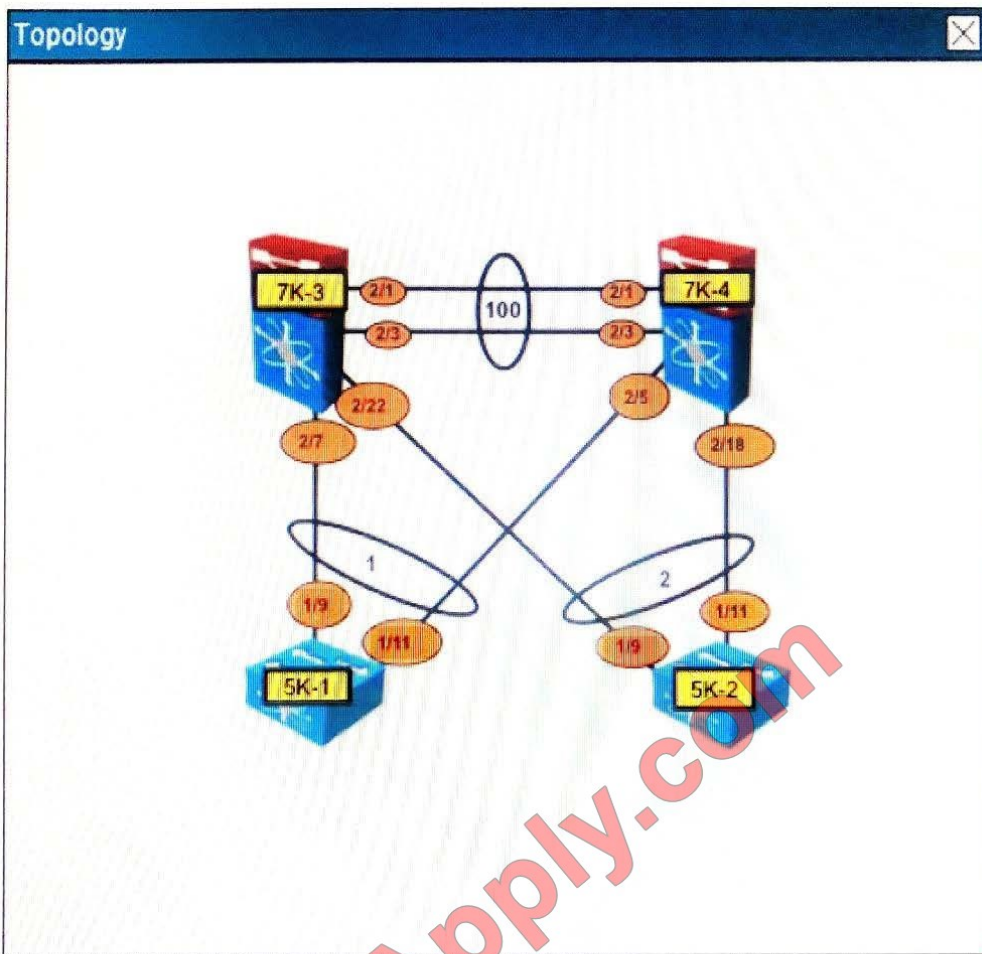
Within the vpc configuration of the 7K\\'s, the command peer-switch is configured.

What is the result of enabling this command?

A. Both vPC peers use the same STP root ID

B. The vPC primary switch (7K-4 in this case) also serves as the STP root to improve vPC convergence

C. The vPC secondary switch (7K-3 in this case) serves as the STP root to improve vPC performance

D. Allows 7K-3 to act as the active HSRP gateway for packets that are addressed to the MAC address of 7K-4

E. Automatically disables IP redirects on all interface VLANs mapped over a vPC VLAN to avoid generation of IP redirect messages for packets switched through the vPC peer gateway router

F. Enables faster convergence of ARP tables after the vPC peer link flaps

Correct Answer: B

QUESTION 3

A VPC fails a Type 2 consistency check during implementation. Which result is true?

A. The interfaces may forward packets using an undesirable path

B. The link to the secondary VPC is suspended until the condition is resolved.

C. The vPC algorithm selects a link to deactivate randomly until the condition is resolved.

D. The interfaces are suspended.

Correct Answer: A

QUESTION 4

A Cisco Nexus 2000 Series Fabric Extender is connected to two Cisco Nexus 5000 Series switches via a vPC link. After both Cisco Nexus 5000 Series switches lose power, only one switch is able to power back up. At this time, the Cisco Nexus 2000 Series Fabric Extender is not active and the vPC ports are unavailable to the network. Which action will get the Cisco Nexus 2000 Series Fabric Extender active when only one Cisco Nexus 5000 Series switch is up and active?

A. Move the line from the failed Cisco Nexus 5000 Series switch to the switch that is powered on, so the port channel forms automatically on the switch that is powered on.

B. Power off and on the Cisco Nexus 2000 Series Fabric Extender so that it detected only one Cisco Nexus 5000 Series switch at power up.

C. Configure auto-recovery reload-delay on the Cisco Nexus 5000 Series switch that is powered on.

D. Shut down the peer link on the Cisco Nexus 5000 Series switch that is powered on.

Correct Answer: C

QUESTION 5

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

Legend:
- Fibre Channel
- 10 Gi with FCoE
- 10 Gi
- 1 Gi

Nexus 5548

```
Nexus 5548#
```
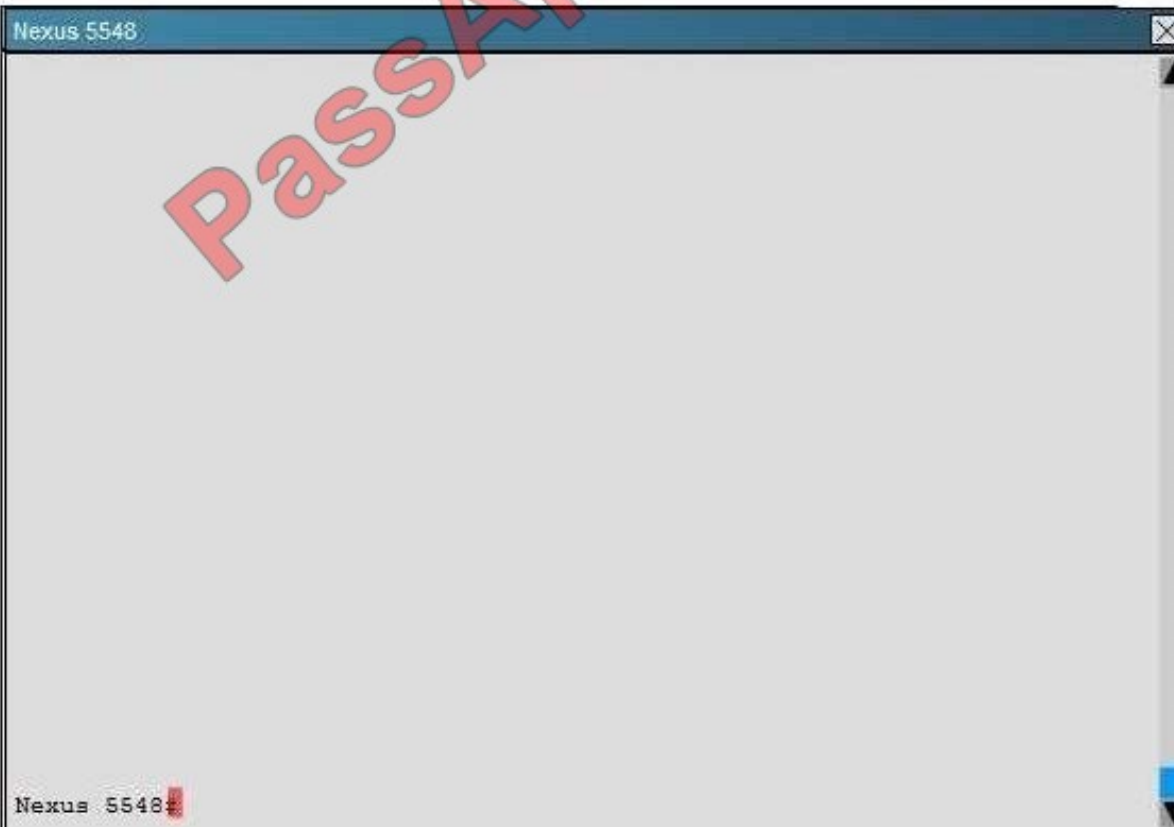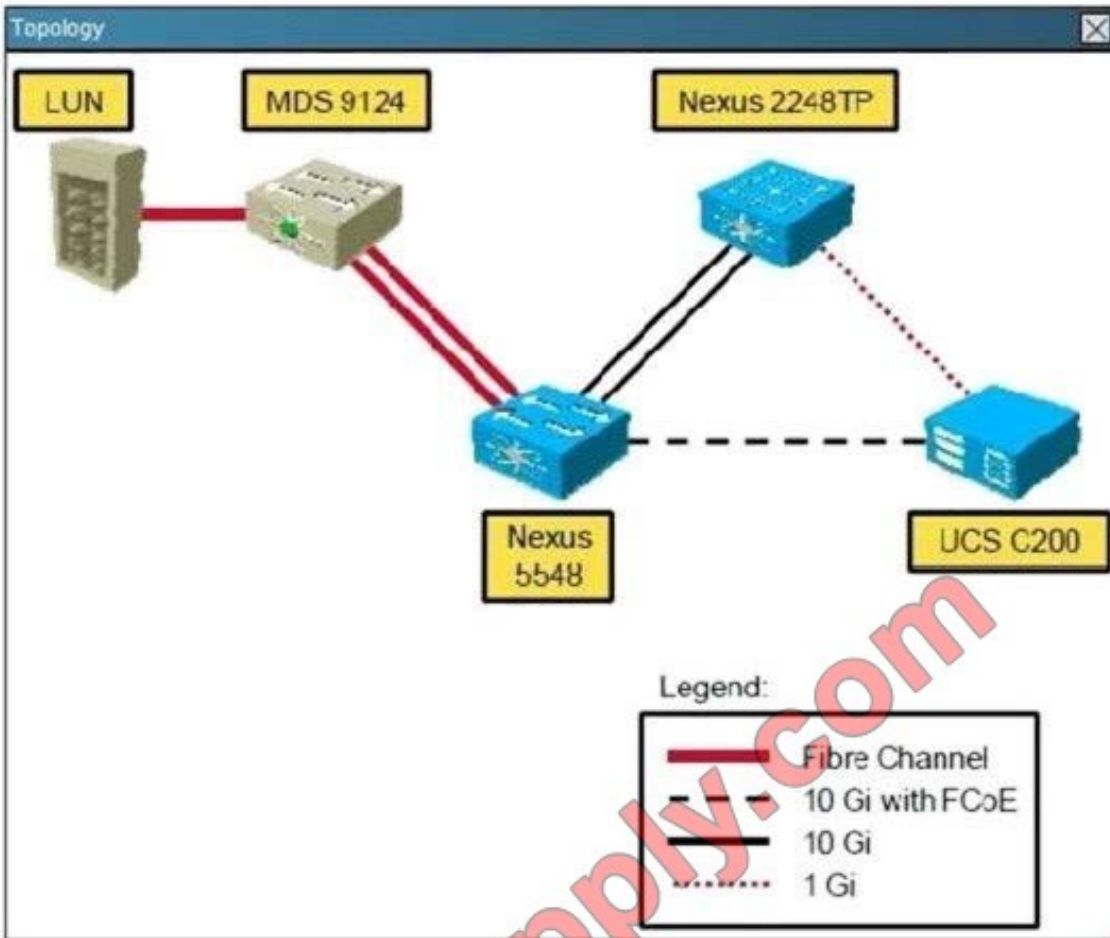
What is the status of FC interface associated with ethernet 1/5 indicate?

A. Trank VSAN 11 is isolated

B. Interface vfc 5 is up and running for the assigned VSAN

C. Trunk VSAN 11 is initializing

D. VSAN to FC mapping is not working as expected

Correct Answer: B

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