

300-610 Latest Dumps Questions | New 300-610 Exam Guide



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Cisco 300-610 exam is a part of the Cisco Certified Network Professional (CCNP) Data Center certification program. This program is designed for professionals who want to validate their skills and expertise in the area of data center networking. The CCNP Data Center certification program comprises four exams, including the 300-610 Exam. Designing Cisco Data Center Infrastructure certification program is ideal for network engineers, network administrators, and system administrators who are responsible for managing data center networks.

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The Cisco 300-610 exam tests the candidates' knowledge and skills in various areas, including data center infrastructure design, data center automation, data center storage networking, and data center compute networking. 300-610 Exam also tests the candidates' knowledge and skills in designing and deploying Cisco ACI, Cisco UCS, and Cisco HyperFlex solutions.

Cisco Designing Cisco Data Center Infrastructure Sample Questions (Q42-Q47):

NEW QUESTION # 42

A network engineer designs a Cisco Nexus data center network for a client-server farm using a pair of Nexus 9000 Series Switches in a vPC setup. Each server connects with two interfaces to both Nexus switches. The Nexus switches must always initiate the negotiation with the server.

Which feature should be used in this design to ensure traffic is forwarded from the server to the data center network?

- A. PAgP mode desirable
- B. PAgP mode auto
- **C. LACP mode active**
- D. LACP mode auto

Answer: C

Explanation:

Servers cannot support PAgP.

https://www.cisco.com/c/en/us/td/docs/ios/12_2sb/feature/guide/gigeth.html

NEW QUESTION # 43

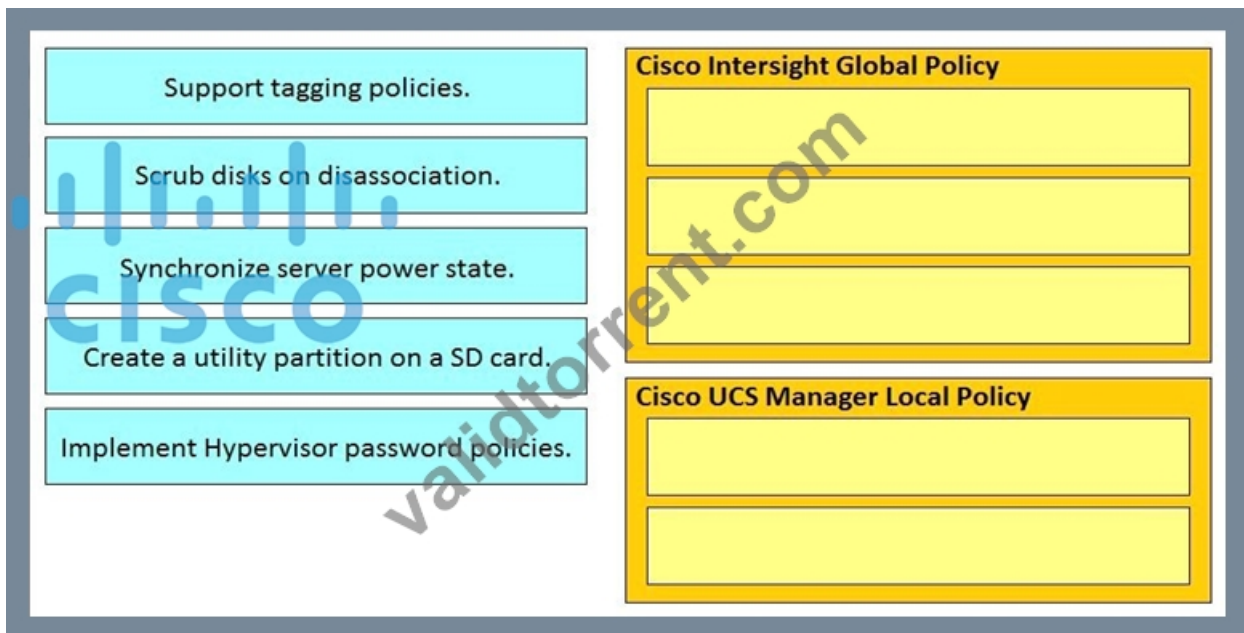
Which approach splits a pair of clustered fabric interconnects into two standalone devices?

- A. Run the connect local-management command on each fabric interconnect.
- B. Erase the configuration of both fabric interconnects.
- C. Run the disable fips-mode command on each fabric interconnect.
- **D. Unplug the Layer 1 and Layer 2 interfaces between the devices.**

Answer: D

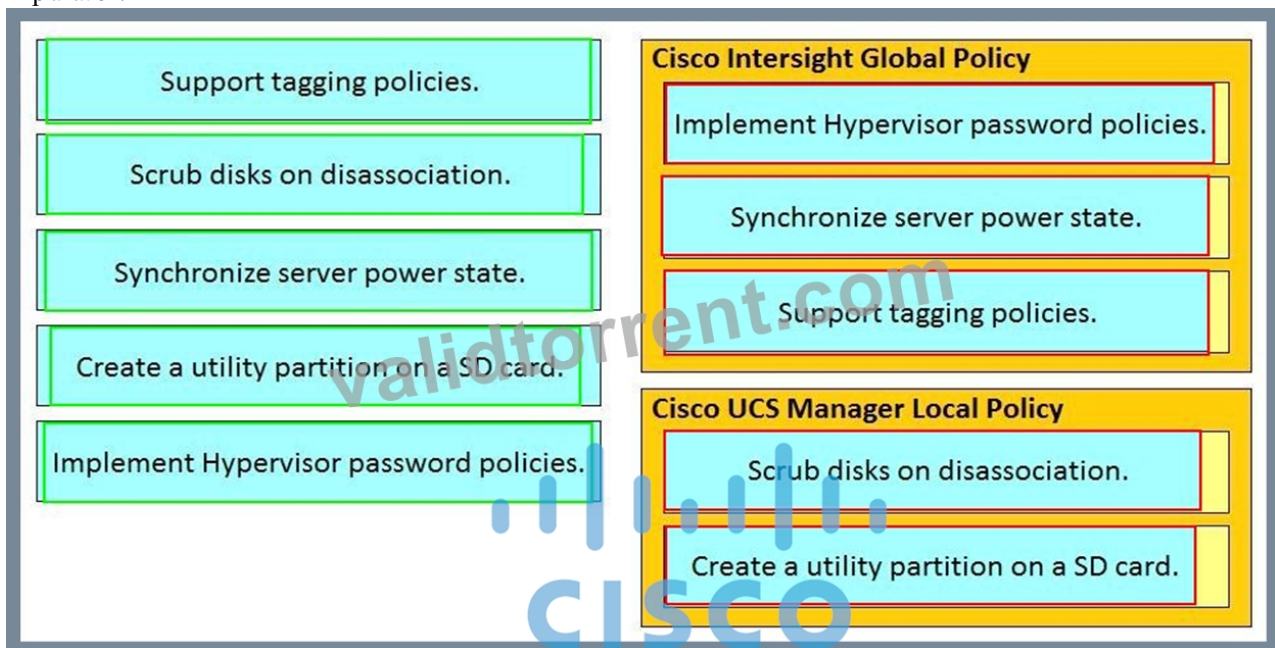
NEW QUESTION # 44

Drag the requirements from the left onto the correct policy types on the right.



Answer:

Explanation:



NEW QUESTION # 45

Which orchestration tool provides a graphical interface to manage LAN and SAN fabrics?

- A. Cisco CloudCenter
- B. Cisco Virtual Topology System
- C. Cisco Nexus Fabric Manager
- **D. Cisco Data Center Network Manager**

Answer: D

Explanation:

Section: Automation Design

Explanation/Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/DCNM_OLH/SAN_Client/fmhelp/fmc.html#34479

NEW QUESTION # 46

A company has several data centers with hundreds of Cisco UCS blade chassis. A network consultant plans to active Cisco Discovery Protocol to the servers to facilitate Layer 1 troubleshooting. For security reasons, the company wants to restrict the servers from sending different MAC addresses to the fabric interconnect after the MAC address from the first packet is learned. Which two policies be modified to support this design? (Choose two.)

- A. vNIC Policy
- B. vNIC Template Policy
- C. Ethernet Adapter
- D. Pin Group Policy
- E. Network Control Policy

Answer: B,E

Explanation:

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Network-Mgmt/4-0/b_UCSM_Network_Mgmt_Guide_4_0/b_UCSM_Network_Mgmt_Guide_4_0_chapter_01010.html
<https://jeremywaldrop.wordpress.com/2010/05/03/how-to-enable-cdp-on-cisco-ucs-vnics/>

Creating a Network Control Policy

MAC address-based port security for Emulex converged Network Adapters (N20-AE0102) is not supported. When MAC address-based port security is enabled, the fabric interconnect restricts traffic to packets that contain the MAC address that it first learns. This is either the source MAC address used in the FCoE Initialization Protocol packet, or the MAC address in an ethernet packet, whichever is sent first by the adaptor. This configuration can result in either FCoE or Ethernet packets being dropped.

Procedure

- Step 1** In the Navigation pane, click **LAN**.
- Step 2** Expand **LAN > Policies**.
- Step 3** Expand the node for the organization where you want to create the policy.
If the system does not include multitenancy, expand the **root** node.
- Step 4** Right-click the **Network Control Policies** node and select **Create Network Control Policy**.
- Step 5** In the Create Network Control Policy dialog box, complete the required fields.
- Step 6** In the LLDP area, do the following:
 - a. To enable the transmission of LLDP packets on an interface, click **Enabled** in the **Transmit** field.
 - b. To enable the reception of LLDP packets on an interface, click **Enabled** in the **Receive** field.
- Step 7** In the **MAC Security** area, do the following to determine whether the server can use different MAC addresses when sending packets to the fabric interconnect:
 - a. Click the **Expand** icon to expand the area and display the radio buttons.
 - b. Click one of the following radio buttons to determine whether forged MAC addresses are allowed or denied when packets are sent from the server to the fabric interconnect:
 - **Allow**— All server packets are accepted by the fabric interconnect, regardless of the MAC address associated with the packets.
 - **Deny**— After the first packet has been sent to the fabric interconnect, all other packets must use the same MAC address or they will be silently rejected by the fabric interconnect. In effect, this option enables port security for the associated vNIC.

If you plan to install VMware ESX on the associated server, you must configure the **MAC Security** to **allow** for the network control policy applied to the default vNIC. If you do not configure **MAC Security** for **allow**, the ESX installation may fail because the MAC security permits only one MAC address while the installation process requires more than one MAC address.

Note Cisco UCS Manager Release 4.0(2) introduces support for **MAC Security** on Cisco UCS 6454 Fabric Interconnects.

The next step is to apply the new policy to the ESX vNICs. If you are using updating vNIC templates then all you need to do is go to each vNIC template for your ESX vNICs select the new policy from the Network Control Policy drop down. If you are not using vNIC templates but you are using an updating Service Profile Template then you can enable it there. If you are using one-off Service Profiles are a non-updating Service Profile then you must go to every Service Profile and enable this new policy on every vNIC.

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