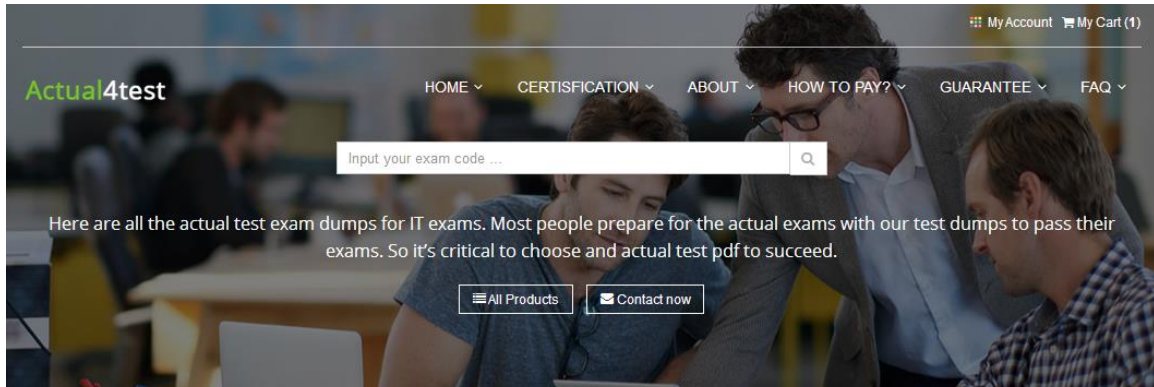


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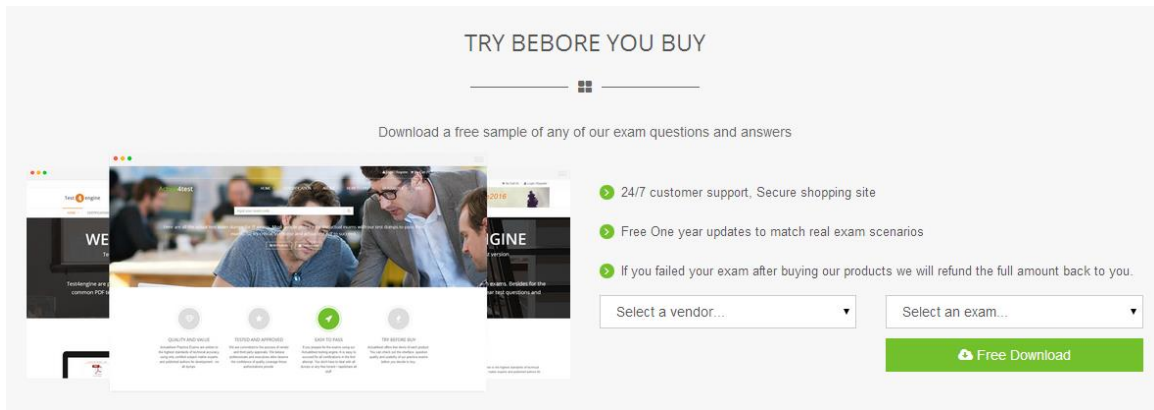
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Exam : **300-165**

Title : **Implementing Cisco Data
Center Infrastructure**

Vendor : **Cisco**

Version : **DEMO**

NO.1 Which statement about RBAC user roles on a Cisco Nexus switch is true?

- A.** If you belong to multiple roles, you can execute only the commands that are permitted by both roles (logical AND).
- B.** Access to a command takes priority over being denied access to a command.
- C.** The predefined roles can only be changed by the network administrator (superuser).
- D.** The default SAN administrator role restricts configuration to Fibre Channel interfaces.
- E.** On a Cisco Nexus 7000 Series Switch, roles are shared between VDCs.

Answer: B

Explanation:

If you belong to multiple roles, you can execute a combination of all the commands permitted by these roles.

Access to a command takes priority over being denied access to a command. For example, suppose a user has RoleA, which denied access to the configuration commands. However, the users also have RoleB, which has access to the configuration commands. In this case, the users have access to the configuration commands.

Reference:

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

NO.2 Which Cisco Nexus feature is best managed with DCNM-SAN?

- A.** VSS
- B.** domain parameters
- C.** virtual switches
- D.** AAA

Answer: B

Explanation:

The Fibre Channel domain (fcdomain) feature performs principal switch selection, domain ID distribution, FC ID allocation, and fabric reconfiguration functions as described in the FC-SW-2 standards. The domains are configured on a per VSAN basis. If you do not configure a domain ID, the local switch uses a random ID.

This section describes each fcdomain phase:

*

Principal switch selection - This phase guarantees the selection of a unique principal switch across the fabric.

*

Domain ID distribution - This phase guarantees each switch in the fabric obtains a unique domain ID.

*

FC ID allocation - This phase guarantees a unique FC ID assignment to each device attached to the corresponding switch in the fabric.

*

Fabric reconfiguration - This phase guarantees a resynchronization of all switches in the fabric to ensure they simultaneously restart a new principal switch selection phase.

Reference:

http://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_2/configuration/guides

/sysmgnt/DCNM-SAN/sysmgmt_dcnm/sysmgmt_overview.html#wp1051962

NO.3 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

Answer: C

NO.4 Which statement is true if password-strength checking is enabled?

- A. Short, easy-to-decipher passwords will be rejected.
- B. The strength of existing passwords will be checked.
- C. Special characters, such as the dollar sign (\$) or the percent sign (%), will not be allowed.
- D. Passwords become case-sensitive.

Answer: A

Explanation:

If a password is trivial (such as a short, easy-to-decipher password), the cisco NX_OS software will reject your password configuration if password-strength checking is enabled.

Be sure to configure a strong password. Passwords are case sensitive.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/security/configuration/guide/b_Cisco_Nexus_9000_Series_NX-OS_Security_Configuration_Guide_7x/b_Cisco_Nexus_9000_Series_NX-OS_Security_Configuration_Guide_7x_chapter_01000.pdf

NO.5 How does an FCoE end node acquire its FCoE MAC address?

- A. server-provided MAC address
- B. Fibre Channel name server
- C. fabric-provided MAC address
- D. FIP proxy

Answer: C

Explanation:

The VN_Port is assigned a fabric-provided Mac address (FPMA) that is built by concatenating a 24-bit FCoE MAC address prefix (FC-MAP), ranging from 0x0E-FC-00 to 0x0E-FC-FF, to the 24-bit FCID. Being able to build a unique MAC address for the VN_Port directly from its FCID saves the switch from having to maintain a table that associates FCID and MAC addresses.

Reference:

http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data_Center/UF_FCoE_final.html

NO.6 Which option must be enabled to implement manual MACsec?

- A. CTS and dot1x
- B. MSDP and dot1x
- C. CTS and MSDP
- D. CTS and private VLAN

Answer: A

NO.7 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.** Shut down the peer link on the Cisco Nexus 5000 Series switch that is powered on.
- C.** Configure reload restore or auto-recovery reload-delay on the Cisco Nexus 5000 Series switch that is powered on.
- D.** Power off and on the Cisco Nexus 2000 Series Fabric Extender so that it can detect only one Cisco Nexus 5000 Series switch at power up.

Answer: C

Explanation:

The vPC consistency check message is sent by the vPC peer link. The vPC consistency check cannot be performed when the peer link is lost. When the vPC peer link is lost, the operational secondary switch suspends all of its vPC member ports while the vPC member ports remain on the operational primary switch. If the vPC member ports on the primary switch flaps afterwards (for example, when the switch or server that connects to the vPC primary switch is reloaded), the ports remain down due to the vPC consistency check and you cannot add or bring up more vPCs.

Beginning with Cisco NX-OS Release 5.0(2)N2(1), the auto-recovery feature brings up the vPC links when one peer is down. This feature performs two operations:

*

If both switches reload, and only one switch boots up, auto-recovery allows that switch to assume the role of the primary switch. The vPC links come up after a configurable period of time if the vPC peer-link and the peer-keepalive fail to become operational within that time.

If the peer-link comes up but the peer-keepalive does not come up, both peer switches keep the vPC links down. This feature is similar to the reload restore feature in Cisco NX-OS Release 5.0(2)N1(1) and earlier releases. The reload delay period can range from 240 to 3600 seconds.

*

When you disable vPCs on a secondary vPC switch because of a peer-link failure and then the primary vPC switch fails, the secondary switch reenables the vPCs. In this scenario, the vPC waits for three consecutive keepalive failures before recovering the vPC links.

Reference:

http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/operations/n5k_vpc_ops.html

NO.8 Refer to the exhibit.

```
N7K-1#show fabricpath switch id
FABRICPATH SWITCH-ID TABLE
Legend: "*" - this system
=====
SWITCH-ID SYSTEM-ID   FLAGS STATE STATIC EMULATED
-----+-----+-----+-----+
 1    0022.5579.b1c1 Primary Confirmed Yes No
 2    0022.5579.b1c2 Primary Confirmed Yes No
 3    001b.54c2.7f41 Primary Confirmed Yes No
 4    001b.54c2.7f42 Primary Confirmed Yes No
 5    0005.73b1.f0c1 Primary Confirmed Yes No
*6    0005.73af.08bc Primary Confirmed Yes No
 7    0005.73b2.0fbc Primary Confirmed Yes No
 8    0005.73af.0ebc Primary Confirmed Yes No
102   0005.73af.0ebc Primary Confirmed No Yes
101   0005.73b2.0fbc Primary Confirmed No Yes
```

Which three statements about the Cisco Nexus 7000 switch are true? (Choose three.)

- A. An emulated switch ID must be unique when the vPC+ feature is used.
- B. Switches with FabricPath and vPC+ consume two switch IDs.
- C. Emulated switch IDs must be numbered from 1 to 99.
- D. Each switch ID must be unique in the FabricPath topology.
- E. Switch IDs must be configured manually.

Answer: B,D,E

Explanation:

To understand this feature, please refer to the link given below.

Reference: http://www.cisco.com/c/en/us/products/collateral/switches/nexus-5000-series-switches/guide_c07-690079.html#wp9000065

NO.9 Which statement about RADIUS configuration distribution using Cisco Fabric Services on a Cisco Nexus 7000 Series Switch is true?

- A. Cisco Fabric Services does not distribute the RADIUS server group configuration or server and global keys.
- B. Enabling Cisco Fabric Services causes the existing RADIUS configuration on your Cisco NX-OS device to be immediately distributed.
- C. When the RADIUS configuration is being simultaneously changed on more than one device in a Cisco Fabric Services region, the most recent changes will take precedence.
- D. Only the Cisco NX-OS device with the lowest IP address in the Cisco Fabric Services region can lock the RADIUS configuration.

Answer: A

Explanation:

CFS does not distribute the RADIUS server group configuration or server and global keys. The keys are unique to the Cisco NX-OS device and are not shared with other Cisco NX-OS devices.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/6_x/nx-os/security/configuration/guide/b_Cisco_Nexus_7000_NX-OS_Security_Configuration_Guide__Release_6-x/b_Cisco_Nexus_7000_NX-OS_Security_Configuration_Guide__Release_6-x_chapter_0101.html

NO.10 Which two Nexus family line cards allow the configuration of features regarding LISP, OTV and MPLS? (Choose two.)

- A. B1
- B. F3
- C. F2
- D. F1
- E. M2

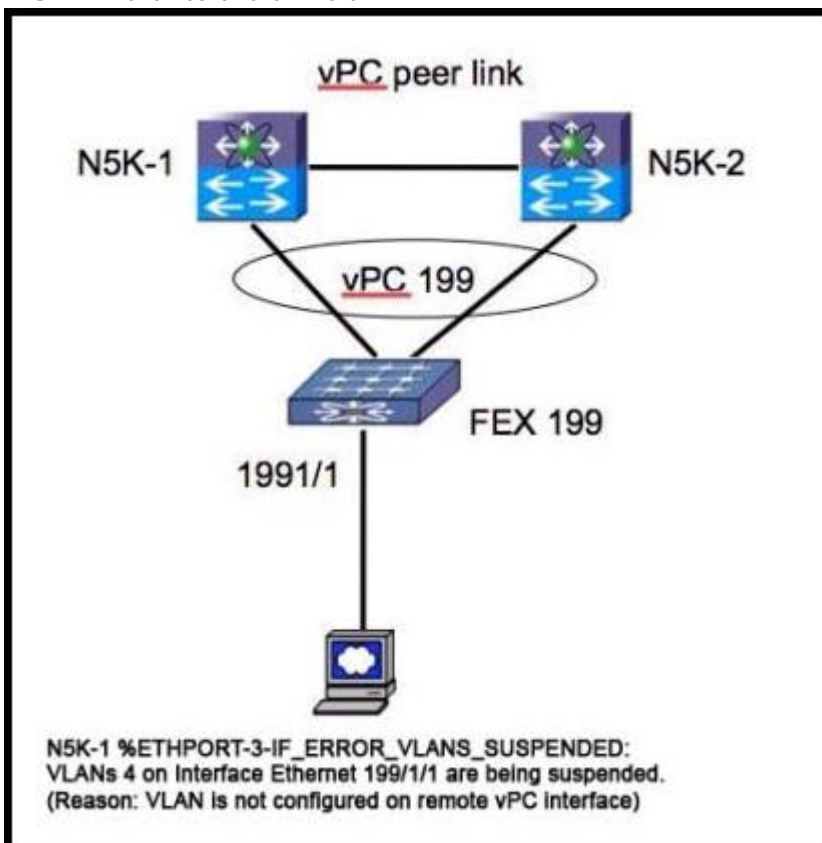
Answer: B,C

NO.11 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

Answer: D

NO.12 Refer to the exhibit.



Which corrective action is taken to resolve the problem?

- A. Trunk four VLANs on interface ethernet 199/1/1.
- B. Use the shut and no shut interface ethernet 199/1/1 so that the VLANs come up.
- C. Place interface ethernet 199/1/1 in VLAN 4 in the N5K-2 configuration.
- D. Prune all but four VLANs from vPC 199.

E. Add VLAN 4 to vPC 199.

Answer: C

Explanation:

Place interface ethernet 199/1/1 in VLAN 4 in the N5K-2 configuration.

NO.13 Which command should you run to enforce SNMP message encryption for all SNMPv3 communications?

- A. snmp-server globalEnforceAuth
- B. snmp-server user Admin enforcePriv
- C. snmp-server globalEnforcePriv
- D. snmp-server user Admin enforceAuth

Answer: C

Explanation: References:

NO.14 Which statement about Cisco FabricPath is true?

- A. It is the best solution for interconnecting multiple data centers.
- B. It optimizes STP throughout the Layer 2 network.
- C. It is a simplified extension of Layer 3 networks across a single data center.
- D. The Cisco FabricPath domain appears as a single STP bridge, where each edge port uses the same MAC address.

Answer: D

Explanation:

To have a loop-free topology for the CE/FabricPath hybrid network, the FabricPath network automatically displays as a single bridge to all connected CE devices. The STP domains do not cross into the FabricPath network. If multiple STP domains are defined, BPDUs and topology change notifications (TCNs) are localized to the domain. If a connected STP domain is multihomed to the FabricPath domain, a TCN must be able to reach to all devices in the STP domain through the FabricPath domain. As a result, the TCN is sent to the FabricPath domain through the IS-IS protocol data unit (PDU) by default.

Reference:

http://www.cisco.com/en/US/docs/switches/datacenter/nexus5000/sw/mkt_ops_guides/513_n1_1/n5k_ops_fabricpath.html

NO.15 Which four statements about reserved VLANs in Cisco NX-OS are true? (Choose four.)

- A. The range of reserved VLANs cannot be changed.
- B. The number of reserved VLANs is 96.
- C. A change to the range of reserved VLANs can be performed only in the VDC default.
- D. A write-erase procedure restores the default reserved VLAN range.
- E. The number of reserved VLANs is 128.
- F. A reload is needed for changes to take place.
- G. The configuration must be saved for changes to take place.

Answer: C,E,F,G

NO.16 You plan to implement the OSPF protocol within the data center network. Which two

statements accurately describe OSPF on the Cisco NX-OS platform? (Choose two.)

- A.** The default reference bandwidth is 10 Gbps.
- B.** OSPF does not require additional licenses.
- C.** The OSPF area can be configured by using decimal notation only.
- D.** Redistributing routes into OSPF requires a route map.
- E.** The secondary IP address is advertised by default.

Answer: D,E