



# 300-170<sup>Q&As</sup>

Implementing Cisco Data Center Virtualization and Automation

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### QUESTION 1

Which action does a VEM on a Cisco Nexus 1000V Series Switch take when an untagged packet is received on an access port?

- A. It adds the ports access VLAN to the packet.
- B. It adds a native VLAN tag to the packet.
- C. It drops the packet.
- D. It forwards the packet as is.

Correct Answer: A

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### QUESTION 2

You have a contract between in-band and out-of-band EPGs. Which two descriptions of this configuration are true? (Choose two.)

- A. Filters apply in the incoming direction only.
- B. Both EPGs must be in one VRF.
- C. Management statistics are available.
- D. Shared services for CPU-bound traffic are supported.
- E. The configuration supports Layer 2 filters.

Correct Answer: AB

Reference: [http://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/aci-fundamentals/b\\_ACI-Fundamentals/b\\_ACI-Fundamentals\\_chapter\\_010001.html](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/aci-fundamentals/b_ACI-Fundamentals/b_ACI-Fundamentals_chapter_010001.html)

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### QUESTION 3

Which feature allows firewall ACLs to be configured automatically when new endpoints are attached to an EPG?

- A. ARP Gleaning
- B. Network-stitching
- C. Hardware Proxy
- D. Dynamic endpoint attach

Correct Answer: D



Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/L4-L7\\_Service\\_Graph\\_Deployment\\_Guide/b\\_L4L7\\_Service\\_Graph\\_Deploy\\_ver122g/b\\_L4L7\\_Service\\_Graph\\_Deploy\\_ver122x\\_chapter\\_0110.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/L4-L7_Service_Graph_Deployment_Guide/b_L4L7_Service_Graph_Deploy_ver122g/b_L4L7_Service_Graph_Deploy_ver122x_chapter_0110.html)

#### QUESTION 4

```
port-profile type vethernet VXLAN-VMK-FI-A
  vmware port-group
  switchport access vlan 100
  no shutdown
  state enabled
```

Refer to the exhibit. You must configure VXLAN on a Cisco Nexus 1000V Series Switch.

Which command must you run on the port profile to encapsulate VXLAN traffic from the connected VMkernel interface?

- A. encapsulation vxlan
- B. capability l3control
- C. capability vxlan
- D. system vlan 100

Correct Answer: B

#### QUESTION 5

Which two statements about the benefits of using the configuration synchronization feature are true? (Choose two.)

- A. It supports the feature command
- B. It supports existing session and port profile functionality
- C. It can be used by any Cisco Nexus switch
- D. It merges configurations when connectivity is established between peers
- E. It supports FCoE in vPC topologies

Correct Answer: BD

Reference:

[http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/operations/n5k\\_config\\_sync\\_ops.html](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/operations/n5k_config_sync_ops.html)

#### QUESTION 6



```
from acitoolkit import *
from credentials import *
tenant = Tenant('ClientA')
context = Context('clienta-router', tenant)
bd = BridgeDomain('clienta-BD1', tenant)
bd.add_context(context)
bd.add_subnet('10.10.0.1/24')
app = AppProfile('webservices', tenant)
vlan100 = EPG('VLAN100', app)
vlan100.add_bd(bd)
vlan200 = EPG('VLAN200', app)
vlan200.add_bd(bd)
```

Refer to the exhibit. Which scripting tool is used to create the script?

- A. REST API
- B. API Inspector
- C. Postman
- D. Python SDK

Correct Answer: D

#### QUESTION 7

Physical interface, except mgmt0, can be shared between storage and user VDC when using which protocol?

- A. FCoE
- B. Fibre Channel
- C. LLDP
- D. FCIP

Correct Answer: A

#### QUESTION 8

Which two objects can be replaced in a VRF? (Choose two.)

- A. VDC associated to the VRF
- B. routing protocol instance
- C. Layer 3 subinterfaces



- D. Layer 2 subinterfaces
- E. console interface

Correct Answer: BC

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#### QUESTION 9

You configure a Cisco Nexus device running in ACI mode to use a remote RADIUS server. Which description of this configuration is true?

- A. If RADIUS authentication fails, the user is denied access without any additional authentication checks.
- B. If the RADIUS server is unreachable, the device falls back to the local authentication automatically.
- C. If the RADIUS server is unreachable, users who have been authenticated recently can log in.
- D. If RADIUS authentication fails, the device falls back to the local authentication automatically.

Correct Answer: D

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#### QUESTION 10

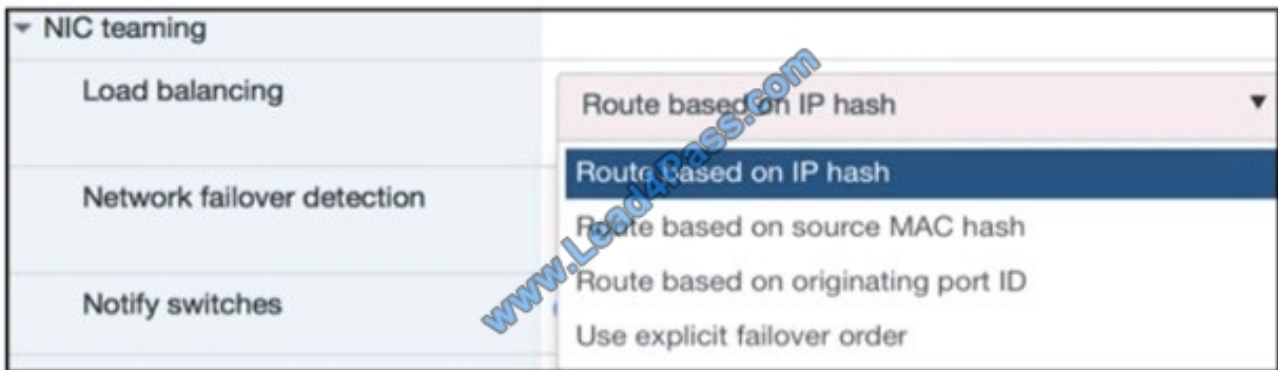
You are implementing an ACI network with switches that are running the Multiple Spanning Tree protocol. Which two actions are required for this configuration? (Choose two.)

- A. Create MST private network for the native VLAN to carry the BPDU.
- B. Create MST EPG for the native VLAN to carry the BPDU.
- C. Create MST bridge domain for the native VLAN to carry the BPDU.
- D. Map MST instances to interface profiles.
- E. Map MST instances to VLANs.

Correct Answer: BE

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#### QUESTION 11



Refer to the exhibit. Which configuration must you use for VMware load balancing when implementing VMM integration between the Cisco ACI fabric and a Cisco UCS-B Blade Server?

- A. route based on originating port ID
- B. route based on source MAC hash
- C. route based on IP hash
- D. explicit failover order

Correct Answer: A

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI\\_Best\\_Practices/b\\_ACI\\_Best\\_Practices/b\\_ACI\\_Best\\_Practices\\_chapter\\_0101.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI_Best_Practices/b_ACI_Best_Practices/b_ACI_Best_Practices_chapter_0101.html)

## QUESTION 12

```
port-profile Cisco1
inherit port-profile Cisco
description Parent_Port
mtu 9000
max-ports 16
switchport mode trunk
no shutdown
switchport trunk allowed vlan all
switchport trunk native vlan 10

port-profile Cisco2
inherit port-profile Cisco1
```

Refer to the exhibit. Which statement accurately describes the configuration of Cisco2?

- A. The max-ports value is 16.
- B. The MTU value is 9000.



C. Cisco2 will be a trunk port

D. The description is Parent\_Port

Correct Answer: C

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus1000/sw/4\\_0\\_4\\_s\\_v\\_1\\_3/port\\_profile/configuration/guide/n1000v\\_port\\_profile/n1000v\\_portprof\\_3inherit.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus1000/sw/4_0_4_s_v_1_3/port_profile/configuration/guide/n1000v_port_profile/n1000v_portprof_3inherit.html)

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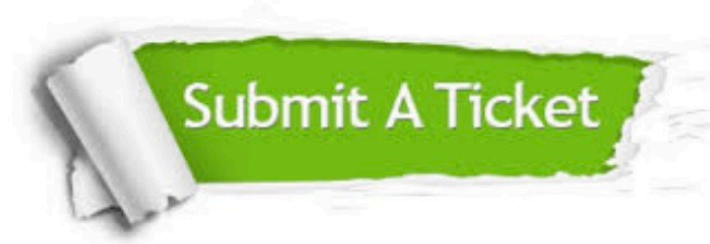
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