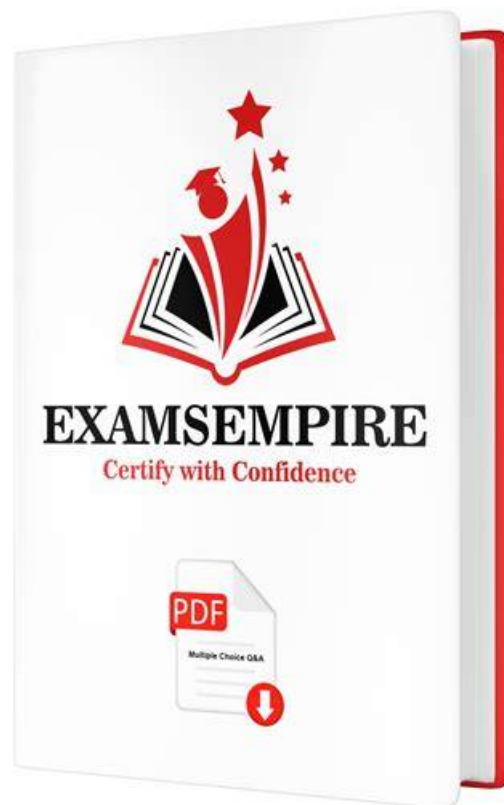


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Cisco 300-415 Exam Syllabus Topics:

Section	Weight	Objectives

Security	20%	- Intrusion Prevention • 1. Configure IDS/IPS policies • 2. Implement threat detection and prevention - URL Filtering • 1. Implement security intelligence feeds • 2. Configure URL filtering policies - Application-Aware Enterprise Firewall • 1. Implement traffic inspection rules • 2. Configure zone-based firewalls • 3. Configure application-aware policies - Transport and Application Encryption • 1. Implement AES-256 encryption • 2. Implement IPsec tunneling • 3. Configure encryption between TLOCs
QoS and Routing	25%	- QoS Configuration • 1. Configure class maps and policy maps • 2. Configure QoS policies (priority queuing, weighted fair queuing) • 3. Implement traffic shaping and policing • 4. Apply QoS policies to data policies - Routing • 1. Implement static routes • 2. Configure routev4 and routev6 • 3. Implement BGP routing in Cisco SD-WAN • 4. Configure OMP routing • 5. Configure OSPF and EIGRP integration - Traffic Policies • 1. Configure data policies (source-based, destination-based) • 2. Implement traffic flow policies • 3. Configure service chaining • 4. Implement control policies

Operations and Management	20%	- Configuration Management • 1. Implement configuration groups and policies • 2. Perform software updates and image management • 3. Use configuration templates effectively - Monitoring and Troubleshooting • 1. Analyze control connections and data plane status • 2. Use vManage dashboards and monitoring tools • 3. Interpret syslog and debug messages • 4. Troubleshoot using CLI and vManage NMS - High Availability • 1. Implement edge device redundancy • 2. Configure multi-region deployment • 3. Configure controller redundancy (vSmart, vManage) - Administration • 1. Implement backup and recovery procedures • 2. Configure audit logging • 3. Manage user accounts and RBAC
Architecture	15%	- Describe Cisco SD-WAN Architecture • 1. Explain overlay management protocol (OMP) • 2. Compare Cisco SD-WAN cloud versus on-premises deployment • 3. Explain control plane topology and components (vBond, vSmart, vManage) • 4. Describe data plane components (vEdge, Cisco IOS-XE SD-WAN) - Design Considerations • 1. Describe multi-tenant considerations • 2. Describe role of TLOC (Transport Location) • 3. Explain color and site ID assignments
Deployment	20%	- Authentication • 1. Implement authentication between control plane and data plane • 2. Configure PKI and certificates • 3. Configure device authentication (username/password, API tokens) - Basic Configuration • 1. Configure device templates • 2. Configure feature templates • 3. Apply templates to devices - Initial Setup • 1. Configure vManage controller • 2. Onboard edge devices (vEdge, IOS-XE SD-WAN) • 3. Configure vSmart controller • 4. Configure vBond orchestrator

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Forum

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Cisco Implementing Cisco SD-WAN Solutions Sample Questions (Q120-Q125):

NEW QUESTION # 120

In which VPN is the NAT operation on an outgoing interface configured for direct Internet access?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: D

NEW QUESTION # 121

```
vManage#show control local-properties
personality                vmanage
sp-organization-name       Cisco
organization-name          Cisco
system-ip                  10.1.1.10
root-ca-chain-status       Installed
certificate-status          Installed
```

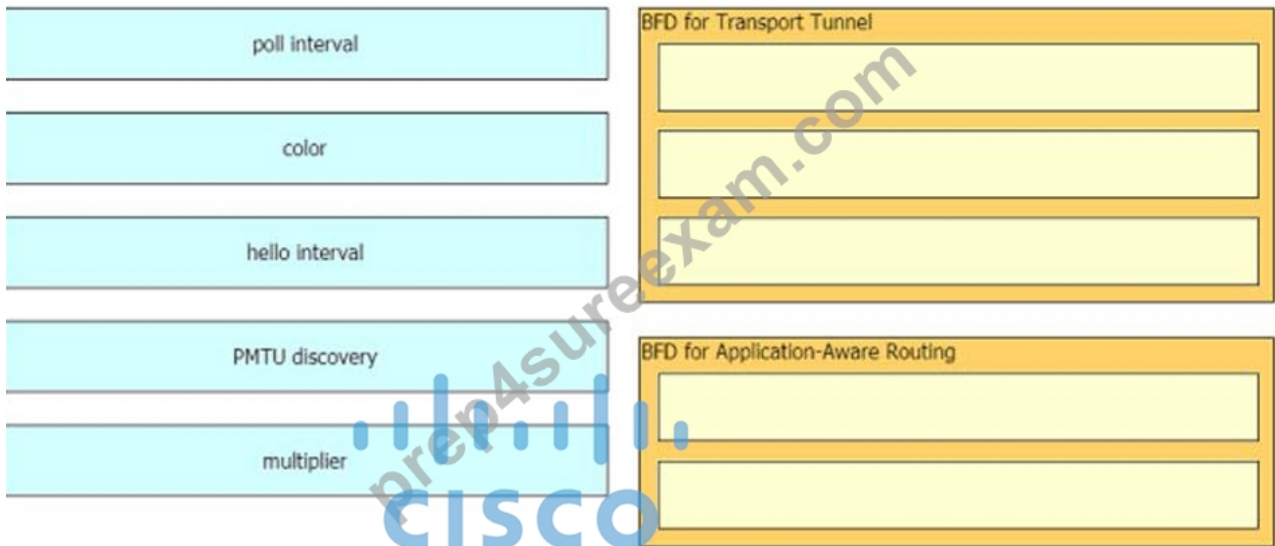
Refer to the exhibit A vBond controller was added to the controller list with the same Enterprise Root CA certificate as vManage. The two controllers can reach each other via VPNO and share the same organization name, but the control connection is not initiated- Which action resolves the issue?

- A. Synchronize the WAN Edge list on vManage with controllers.
- B. Configure a valid vBond IP on vManage.
- C. Configure a valid system IP on the vBond controller.
- D. Configure NTP on both controllers to establish a connection.

Answer: B

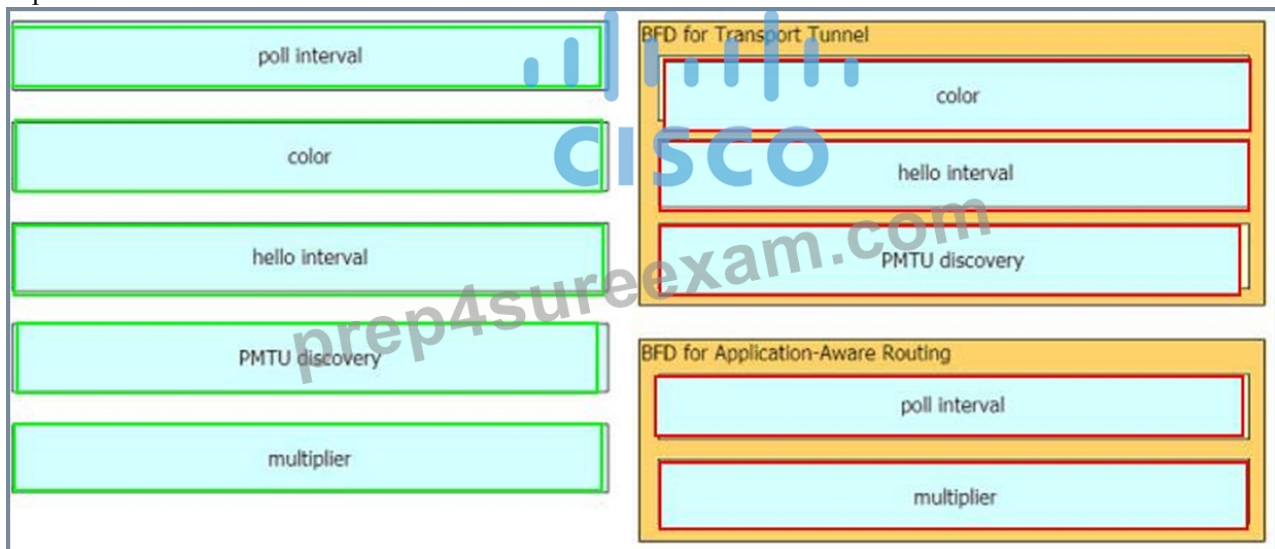
NEW QUESTION # 122

Drag and drop the BFD parameters from the left onto the BFD configurations on the right.



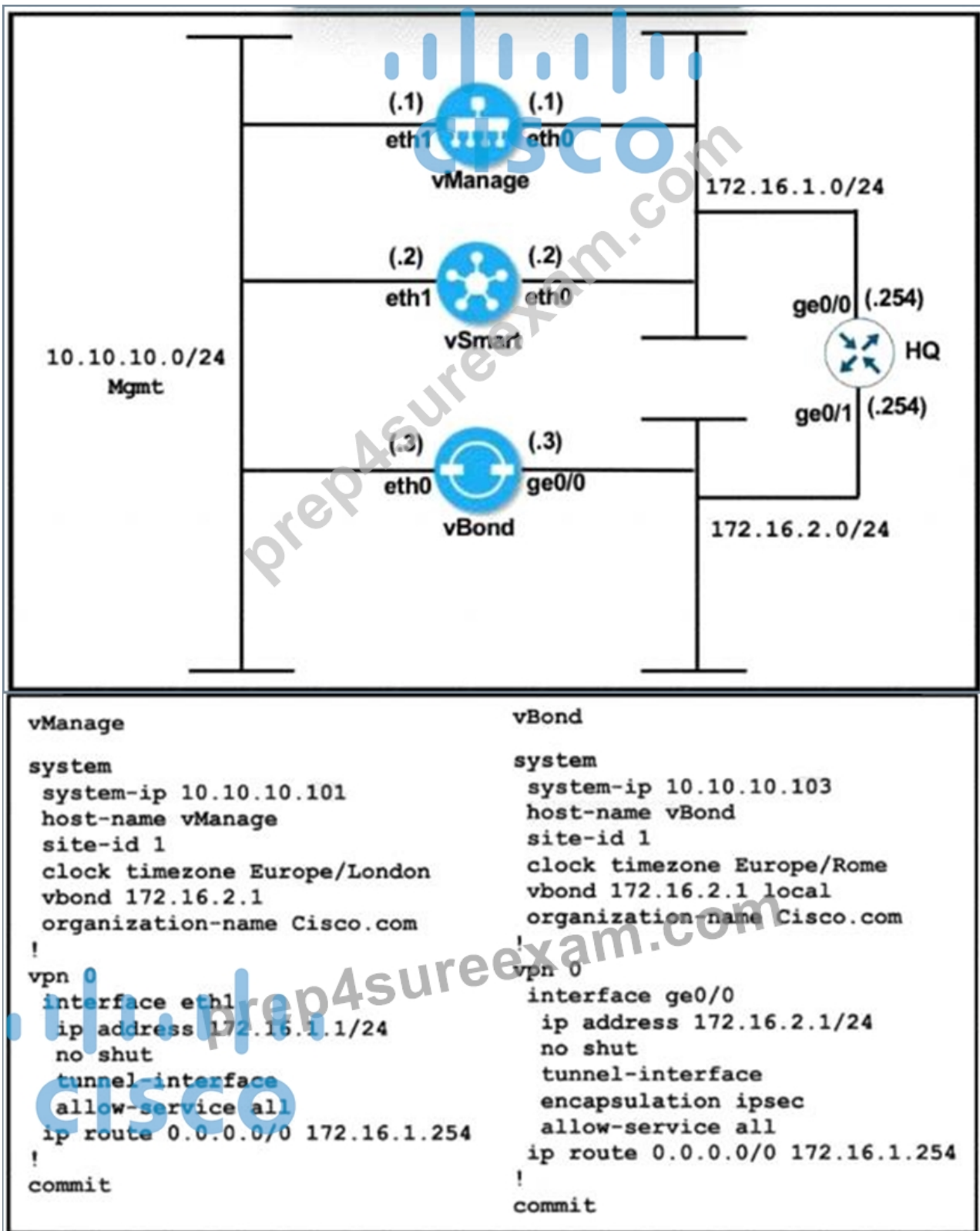
Answer:

Explanation:



NEW QUESTION # 123

Refer to the exhibit.



vManage and vBond have an issue establishing a connection to each other. Which configuration resolves the issue?

- A. Configure the timezone on vBond to Europe/London.
- B. Configure a default route on vBond pointing to 172.16.2.254.
- C. Remove the encapsulation ipsec command under the tunnel interface of vBond.
- D. Configure the encapsulation ipsec command under the tunnel interface on vManage.

Answer: B

NEW QUESTION # 124

A company must avoid downtime at the remote sites and data plane to continue forwarding traffic between WAN Edge devices if the branch router loses connectivity to its OMP peers. Which configuration meets the requirement?

A)

The screenshot shows the 'CONFIGURATION | TEMPLATES' page with the 'Feature' tab selected. The 'Feature Template' is 'OMP'. The 'Basic Configuration' tab is active. The configuration parameters are as follows:

Parameter	Value
Graceful Restart for OMP	Off
Overlay AS Number	2
Graceful Restart Timer (seconds)	300
Number of Paths Advertised per Prefix	2
ECMP Limit	2
Shutdown	No

B)

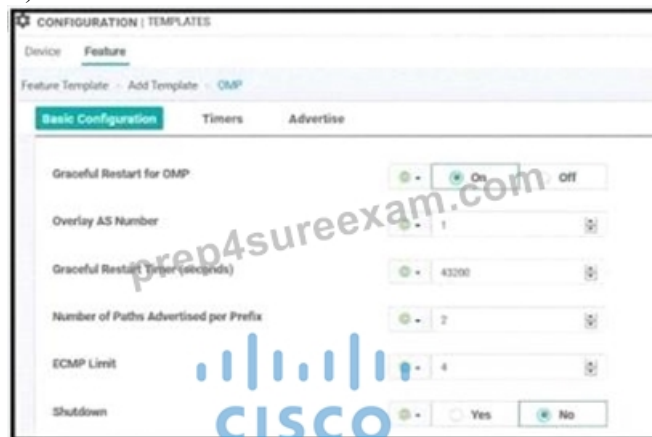
The screenshot shows the 'CONFIGURATION | TEMPLATES' page with the 'Feature' tab selected. The 'Feature Template' is 'OMP'. The 'Basic Configuration' tab is active. The configuration parameters are as follows:

Parameter	Value
Graceful Restart for OMP	Off
Overlay AS Number	1
Graceful Restart Timer (seconds)	33200
Number of Paths Advertised per Prefix	2
ECMP Limit	2
Shutdown	No

C)



D)



- A. Option D
- B. Option C
- C. Option B
- D. Option A

Answer: A

NEW QUESTION # 125

.....

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