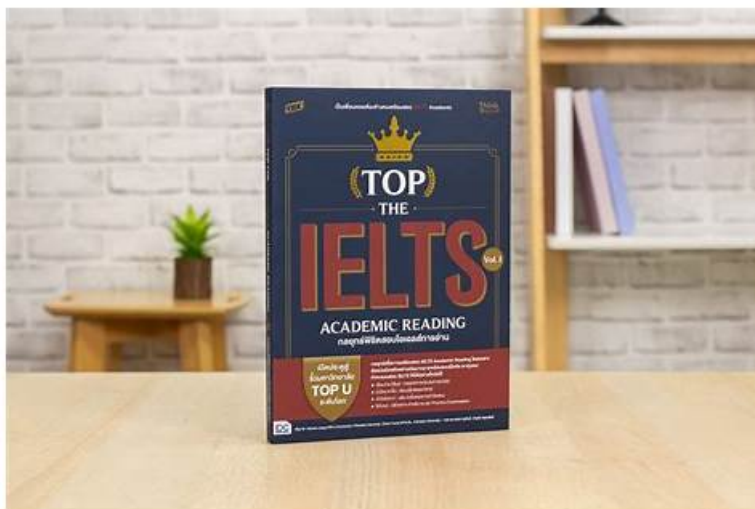


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Cisco 300-415 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Deployment	20%	- Basic Configuration • 1. Configure feature templates • 2. Configure device templates • 3. Apply templates to devices - Authentication • 1. Configure PKI and certificates • 2. Configure device authentication (username/password, API tokens) • 3. Implement authentication between control plane and data plane - Initial Setup • 1. Onboard edge devices (vEdge, IOS-XE SD-WAN) • 2. Configure vManage controller • 3. Configure vSmart controller • 4. Configure vBond orchestrator

Topic 2: QoS and Routing	25%	- QoS Configuration • 1. Configure QoS policies (priority queuing, weighted fair queuing) • 2. Configure class maps and policy maps • 3. Apply QoS policies to data policies • 4. Implement traffic shaping and policing - Traffic Policies • 1. Implement control policies • 2. Configure data policies (source-based, destination-based) • 3. Configure service chaining • 4. Implement traffic flow policies - Routing • 1. Implement BGP routing in Cisco SD-WAN • 2. Implement static routes • 3. Configure routev4 and routev6 • 4. Configure OMP routing • 5. Configure OSPF and EIGRP integration
Topic 3: Operations and Management	20%	- Administration • 1. Configure audit logging • 2. Manage user accounts and RBAC • 3. Implement backup and recovery procedures - High Availability • 1. Configure controller redundancy (vSmart, vManage) • 2. Configure multi-region deployment • 3. Implement edge device redundancy - 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 - Configuration Management • 1. Use configuration templates effectively • 2. Perform software updates and image management • 3. Implement configuration groups and policies

Topic 4: Security	20%	- Intrusion Prevention • 1. Implement threat detection and prevention • 2. Configure IDS/IPS policies - Application-Aware Enterprise Firewall • 1. Configure zone-based firewalls • 2. Configure application-aware policies • 3. Implement traffic inspection rules - URL Filtering • 1. Configure URL filtering policies • 2. Implement security intelligence feeds - Transport and Application Encryption • 1. Configure encryption between TLOCs • 2. Implement IPsec tunneling • 3. Implement AES-256 encryption
Topic 5: Architecture	15%	- Describe Cisco SD-WAN Architecture • 1. Explain control plane topology and components (vBond, vSmart, vManage) • 2. Explain overlay management protocol (OMP) • 3. Compare Cisco SD-WAN cloud versus on-premises deployment • 4. Describe data plane components (vEdge, Cisco IOS-XE SD-WAN) - Design Considerations • 1. Explain color and site ID assignments • 2. Describe role of TLOC (Transport Location) • 3. Describe multi-tenant considerations

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Cisco Implementing Cisco SD-WAN Solutions Sample Questions (Q212-Q217):

NEW QUESTION # 212

Drag and drop the functions from the left onto the correct templates on the right.

VPN 512	route policy
VPN 0	transport VPN
route-map	management VPN
organization name	service VPN
VPN 10	system information

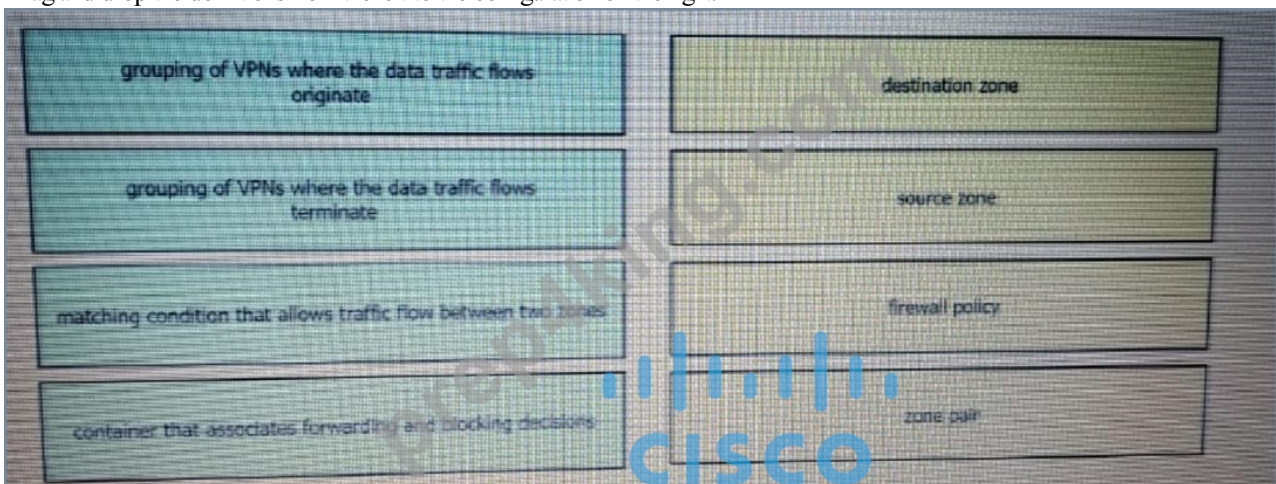
Answer:

Explanation:



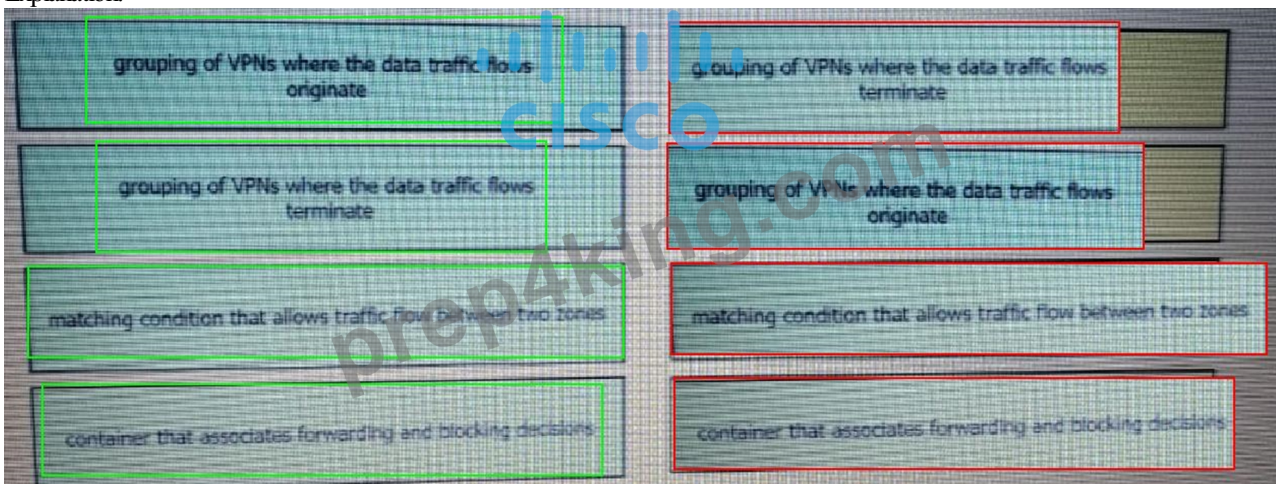
NEW QUESTION # 213

Drag and drop the definitions from the left to the configuration on the right.



Answer:

Explanation:



NEW QUESTION # 214

Refer to the exhibit.

```

policy
lists
!
tloc-list dc-preference-east
tloc 100.100.100.100 color mpls
encap ipsec preference 200
tloc 101.101.101.101 color mpls
encap ipsec preference 400
!
site-list sites-region-west
site-id 1-20
!
site-list sites-region-east
site-id 21-40
!
site-list dc-sites
site-id 100-101
!
control-policy adv-dc-preference-west
sequence 10
match route
site-list dc-sites
!
action accept
set
tloc-list dc-preference-east
!

!
default-action accept
!
control-policy adv-dc-preference-east
sequence 10
match route
site-list dc-sites
!
action accept
set
tloc-list dc-preference-east
!
!
default-action accept
!
!
apply-policy
site-list sites-region-west
control-policy adv-dc-preference-west
out
!
site-list sites-region-east
control-policy adv-dc-preference-east
out
!
!

```

A customer wants to implement primary and secondary Cisco SD-WAN overlay routing for prefixes that are advertised for both data centers. The east data center (TLOC 101.101.101.101) is primary for east sites, and the west data center (TLOC 100.100.100.100) is primary for west sites. Which configuration change achieves this objective?

A.

```
lists
  tloc-list dc-preference-west
  tloc 100.100.100.100 color mpis encap ipsec preference 400
  tloc 101.101.101.101 color mpis encap ipsec preference 200

control-policy adv-dc-preference-west
sequence 10
match route
  site-list dc-sites
  !
action accept
set
  tloc-list dc-preference-west
  !
!
default-action accept
```

B.

```
lists
  tloc-list dc-preference-west
  tloc 100.100.100.100 color mpis encap ipsec preference 200
  tloc 101.101.101.101 color mpis encap ipsec preference 400

control-policy adv-dc-preference-west
sequence 10
match route
  site-list dc-sites
  !
action accept
set
  tloc-list dc-preference-west
  !
!
default-action accept
```

C.

```
tloc-list dc-preference-east
tloc 100.100.100.100 color mpis encap ipsec preference 400
tloc 101.101.101.101 color mpis encap ipsec preference 200
```

D.

```
control-policy adv-dc-preference-west
sequence 10
match route
  site-list dc-sites
  !
action accept
set
  tloc-list dc-preference-west
  !
!
default-action accept
```

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

Answer: D

NEW QUESTION # 215

Drag and drop the vManage policy configuration procedures from the left onto the correct definitions on the right.

Create groups of interest.	Create the network structure to which the policy applies.
Configure traffic rules.	Create lists that group together related items that an engineer can call in the match or action components of a policy.
Configure topology.	Associate a policy with sites and VPNs in the overlay network.
Apply policies to sites and VPNs.	Create the match and action conditions of a policy.

Answer:

Explanation:

Create groups of interest.	Configure topology.
Configure traffic rules.	Create groups of interest.
Configure topology.	Apply policies to sites and VPNs.
Apply policies to sites and VPNs.	Configure traffic rules.

Reference:

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policies-book/data-policies.html>

NEW QUESTION # 216



Refer to the exhibit. The ge0/0 interface connects to a 30-MB link. A network administrator wants to always have 10 MB available for high priority traffic. When lower-priority traffic bursts exceed 20 MB. Traffic should be redirected to the second WAN interface ge0/1. Which set of configurations accomplishes this task?

- A.

```

policy
  policer bursty-traffic
    rate 100000
    burst 20000
    exceed continue
  access-list policer-bursty-traffic
    sequence 10
    match
      source-ip 56.0.1.0/24
    action accept
  policer bursty-traffic
  default-action accept

```

```

policy
  policer bursty-traffic
    rate 10
    burst 20
    exceed remark
  access-list policer-bursty-traffic
    sequence 10
    match
      source-ip 56.0.1.0/24
    action accept
  policer bursty-traffic
  default-action accept

```

• B.

```

policy
  policer bursty-traffic
    rate 10000
    burst 20000
    exceed drop
  access-list policer-bursty-traffic
    sequence 10
    match
      source-ip 56.0.1.0/24
    action accept
  policer bursty-traffic
  default-action accept

```

• C.

```

policy
  policer bursty-traffic
    rate 1000000
    burst 20000
    exceed remark
  access-list policer-bursty-traffic
    sequence 10
    match
      source-ip 56.0.1.0/24
    action accept
  policer bursty-traffic
    default-action accept

```

- D.

Answer: D

Explanation:

Explanation

```

policy
  policer bursty-traffic
    rate 1000000
    burst 20000
    exceed remark
  access-list policer-bursty-traffic
    sequence 10
    match
      source-ip 56.0.1.0/24
    action accept
  policer bursty-traffic
    default-action accept

```

<https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-18-4.pdf#page=546>

NEW QUESTION # 217

.....

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