Cisco

Exam Questions 350-501

Implementing and Operating Cisco Service Provider Network Core Technologies

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NEW QUESTION 1
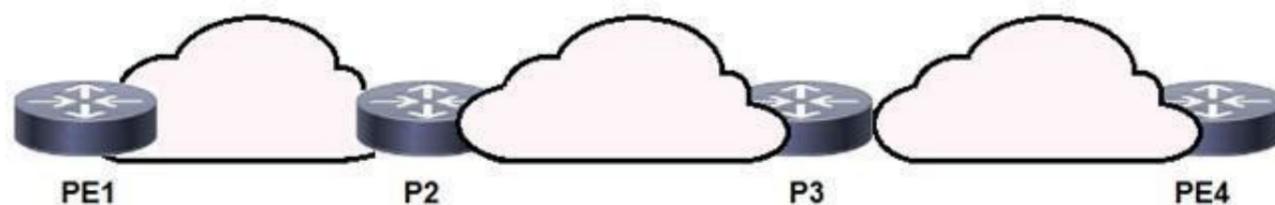
Refer to the exhibit. P3 and PE4 are at the edge of the service provider core and serve as ABR routers. Aggregation areas are on either side of the core. Which statement about the architecture is true?

A. To support seamless MPLS, the BGP route reflector feature must be disabled.
B. If each area is running its own IGP, BGP must provide an end-to-end MPLS LSP.
C. If each area is running its own IGP, the ABR routers must redistribute the IGP routing table into BGP.
D. To support seamless MPLS, TDP must be used as the label protocol.

Answer: B

NEW QUESTION 2
Which component is similar to an EVPN instance?

A. router distinguisher
B. MPLS label
C. IGP router ID
D. VRF

Answer: D

NEW QUESTION 3
Why do Cisco MPLS TE tunnels require a link-state routing protocol?

A. The link-state database provides segmentation by area, which improves the path-selection process.
B. The link-state database provides a data repository from which the tunnel endpoints can dynamically select a source ID.
C. Link-state routing protocols use SPF calculations that the tunnel endpoints leverage to implement the tunnel.
D. The tunnel endpoints use the link-state database to evaluate the entire topology and determine the best path.

Answer: D

NEW QUESTION 4
Which configuration mode do you use to apply the mpls ldp graceful-restart command in IOS XE Software?

A. MPLS LDP neighbor
B. interface
C. MPLS
D. global

Answer: D

NEW QUESTION 5

```
ip cef
interface gigabitethernet0/1
        ip verify unicast source reachable-via any
```

Refer to the exhibit. Router 1 was experiencing a DDoS attack that was traced to interface gigabitethernet0/1. Which statement about this configuration is true?

A. Router 1 accepts all traffic that ingresses and egresses interface gigabitethernet0/1.
B. Router 1 drops all traffic that ingresses interface gigabitethernet0/1 that has a FIB entry that exits a different interface.
C. Router 1 accepts source addresses that have a match in the FIB that indicates it is reachable through a real interface.
D. Router 1 accepts source addresses on interface gigabitethernet0/1 that are private addresses.

Answer: C

NEW QUESTION 6

```
PE-A#show ip bgp vpnv4 vrf Customer-A neighbors 10.10.10.2 routes
  BGP table version is 13148019, local router ID is 10.10.10.10
  Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
                r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter,
                x best-external, a additional-path, c RIB-compressed,
  Origin codes: i - IGP, e - EGP, ? - incomplete
  RPKI validation codes: V valid, I invalid, N Not found

     Network          Next Hop          Metric LocPrf Weight Path
  Route Distinguisher: 65000:1111 (default for vrf Customer-A)
  *>   192.168.0.0/19   10.10.10.2            0         0 4282 65001 ?
  *>   192.168.0.0/17   10.10.10.2            0         0 4282 65001 ?
  *>   192.168.0.0/16   10.10.10.2            0         0 4282 65001 ?

Total number of prefixes 5

PE-A#config t
  Enter configuration commands, one per line. End with CNTL/Z.
  PE-A(config)#ip prefix-list ALLOW permit 192.168.0.0/16 ge 17 le 19
  PE-A(config)#router bgp 65000
  PE-A(config-router)#address-family ipv4 vrf Customer-A
  PE-A(config-router-af)#neighbor 10.10.10.2 prefix-list ALLOW in
```

Refer to the exhibit. Which three outcomes occur if the prefix list is added to the neighbor? (Choose three.)

A. 192.168.0.0/16 is denied.
B. 192.168.0.0/16 is permitted.
C. 192.168.0.0/19 is permitted
D. 192.168.0.0/19 is denied.
E. 192.168.0.0/17 is permitted
F. 192.168.0.0/17 is denied.

Answer: ACF

NEW QUESTION 7

```
R1
router ospf 1
      area 2 stub no-summary

R2
router ospf 1
      area 3 nssa
```

Refer to the exhibit. In which way does router R1 operate differently than router R2?

A. R1 sends LSA types 5 and 7, while R2 sends type 1, 2, and 7 LSAs.
B. R1 sends LSA type 2 only, while R2 sends type 1 and type 7 LSAs.
C. R1 sends LSA type 2 only and R2 sends LSA type 1 only.
D. R1 sends LSA types 1 and 2, while R2 sends type 1,2, and 7 LSAs.

Answer: D

NEW QUESTION 8

```
router ospf 1
      nsf ietf restart interval 90
```

Refer to the exhibit. Which purpose of implementing NSF with this configuration is true?

A. The router uses NSF to handle RP switchover while allowing neighbor relationships to remain up.
B. The router uses NSF to reduce neighbor-relationship downtime during RP switchover.
C. The router uses NSF to load balance traffic on a routed EtherChannel.
D. The router uses NSF to load balance traffic between two links, with the primary link alternating every 90 seconds.

Answer: A

NEW QUESTION 9
Which two IS-IS parameters must match before two Level 2 peers can form an adjacency? (Choose two.)

A. hello timer setting
B. authentication settings
C. area ID
D. system ID
E. MTU

Answer: BE

NEW QUESTION 10

```
PE-A                                              PE-B
!                                                 !
interface FastEthernet0/0                         interface FastEthernet0/0
 ip address 10.10.10.1 255.255.255.252             ip address 10.10.10.2 255.255.255.252
 ip ospf authentication null                       ip ospf authentication null
 ip ospf 1 area 0                                   ip mtu 1400
 duplex full                                        ip ospf 1 area 0
end                                                 duplex half
                                                  end
!                                                 !
router ospf 1
 log-adjacency-changes                            R1#sho run | b router ospf
 passive-interface Loopback0                      router ospf 1
 network 10.10.10.0 0.0.0.3 area 0                 log-adjacency-changes
 default-metric 200                                passive-interface Loopback10
!                                                  network 10.10.10.0 0.0.0.255 area 0
                                                   default-metric 100
```

Refer to the exhibit. Which configuration prevents the OSPF neighbor from establishing?

A. default-metric
B. duplex
C. network statement
D. mtu

Answer: D

NEW QUESTION 10

```
R2#sh cins neighbors detail
Tag TEST:
System Id    Interface    SNPA         State  Holdtime    Type  Protocol
R1          Fa0/0        ca01.2178.0008  Up     89          L1L2 IS-IS
 Area Address(es): 49
 Uptime: 00:03:29
 NSF capable
 Interface name: FastEthernet0/0
```

Refer to the exhibit. On R1, which output does the show isis neighbors command generate?

A.
```
Tag TEST:
System Id   Type Interface   IP Address   State Holdtime Circuit Id
R2          L1    Fa0/0        UP    7        R2.01
R2          L2    Fa0/0        UP    9        R2.01
```

B.
```
Tag TEST:
System Id   Type Interface   IP Address   State Holdtime Circuit Id
R2          L2    Fa0/0        UP    7        R2.01
R2          L2    Fa0/0        UP    9        R2.01
```

C.
```
Tag TEST:
System Id   Type Interface   IP Address   State Holdtime Circuit Id
R2          L2    Fa0/0        UP    9        R2.01
```

D.
```
Tag TEST:
System Id   Type Interface   IP Address   State Holdtime Circuit Id
R2          L1    Fa0/0        UP    7        R2.01
```

Answer: A

NEW QUESTION 12

```
R1

router bgp 65000
   router-id 192.268.1.1
   neighbor 192.168.1.2 remote-as 65001
   neighbor 192.168.1.2 password cisco
```

Refer to the exhibit Router R1 and its peer R2 reside on the same subnet in the network. If an engineer implements this configuration to R1, how does it make connections to R2?

A. R1 establishes TCP connections that are authenticated with a clear-text password.
B. R1 establishes UDP connections that are authenticated with an MD5 password.
C. R1 establishes UDP connections that are authenticated with a clear-text password.
D. R1 establishes TCP connections that are authenticated with an MD5 password.

Answer: D

NEW QUESTION 13

```
PE-A#config t
PE-A(config)#interface FastEthernet0/0
PE-A(config-if)#ip ospf message-digest-key 1 md5 44578611
PE-A(config-if)#ip ospf authentication message-digest

PE-B#config t
PE-B(config)#interface FastEthernet0/0
```

Refer to the exhibit. An engineer wants to authenticate the OSPF neighbor between PE-A and PE-B using MD5. Which command on PE-B successfully completes the configuration?

A. PE-B(config-if)#ip ospf message-digest-key 1 md5 44578611 PE-B(config- if)#ip ospf authentication null
B. PE-B(config-if)#ip ospf message-digest-key 1 md5 44578611 PE-B(config-if)#ip ospf authentication key-chain 44578611
C. PE-B(config-if)#ip ospf message-digest-key 1 md5 44568611 PE-B(config- if)#ip ospf authentication null
D. PE-B(config-if)#ip ospf message-digest-key 1 md5 44578611 PE-B(config- if)#ip ospf authentication message-digest

Answer: D

NEW QUESTION 18
You are writing an RPL script to accept routes only from certain autonomous systems. Consider this code:
RP/0/RP0/CPU0:router(config-rpl)# if as-path in (ios-regex '.*77$') RP/0/RP0/CPU0:router(config-rpl-if)# pass RP/0/RP0/CPU0:router(config-rpl-if)# endif
If you apply this code to BGP filters, which effect does the code have on your router?

A. denies routes from AS 7070
B. allows routes from AS 7077
C. denies routes from AS 7007
D. allows routes from AS 770

Answer: B

NEW QUESTION 23
Which utility can you use to locate MPLS faults?

A. MPLS LSP ping
B. QoS
C. MPLS traceroute
D. EEM

Answer: C

NEW QUESTION 24

```
mpls traffic-eng tunnels                    int gig0/0
                                              ip address 192.168.1.2 255.255.255.0
segment-routing mpls                          ip router isis 1
connected-prefix-sid-map                      mpls traffic-eng tunnels
  address-family ipv4                         isis network point-to-point
    192.168.1.1/32 index 10 range 1
    exit-address-family                     router isis 1
                                              net 50.0000.0000.0000.0001.00
set-attributes                                metric-style wide
  address-family ipv4                         is-type level-1
    sr-label-preferred                        segment-routing mpls
    exit-address-family                       segment-routing prefix-sid-map advertise-local
                                              mpls traffic-eng router-id Loopback1
interface Loopback1                           mpls traffic-eng level-1
  ip address 192.168.1.1 255.255.255.255
  ip router isis 1
```

Refer to the exhibit. Which statement about this configuration is true?

A. It requires a dynamic Cisco MPLS TE path to be configured for the tunnel to run.
B. It requires OSPF to also be running to have optimized Cisco MPLS TE tunnels.
C. It is the configuration for the head-end router of a Cisco MPLS TE tunnel with segment routing.
D. It requires an explicit Cisco MPLS TE path to be configured for the tunnel to run.

Answer: C

NEW QUESTION 25
Which statement about segment routing prefix segments is true?

A. It is the longest path to a node.
B. It is linked to an adjacency SID that is globally unique within the router.
C. It is linked to a prefix SID that is globally unique within segment routing domain.
D. It requires using EIGRP to operate.

Answer: C

NEW QUESTION 29

```
RP/0/RSP0/CPU0:JFK-PE#show mpls ldp bindings 192.168.10.10/32
Fri Nov 11 21:02:33.124 UTC
192.168.10.10/32, rev 2
        Local bindings: label: ImpNull
        Remote bindings: (2 peers)
            Peer                Label
            ----------------    ------------
            10.10.10.2:0        562656
            10.10.10.5:0        378337
```

Refer to the exhibit. After implementing a new design for the network, a technician reviews the pictures CLI output as part of the MOP. Which two elements describe what the technician can ascertain from the ImpNull output? (Choose two.)

A. Ultimate Hop Popping is in use for the prefix displayed.
B. Penultimate Hop Popping is in use for the prefix displayed.
C. Label 0 is used for the prefix displayed, but will not be part of the MPLS label stack for packets destined for 192.168.10.10.
D. Label 3 is in use for the prefix displayed and will be part of the MPLS label stack for packets destined for 192.168.10.10.
E. Label 0 is used for the prefix displayed and will be part of the MPLS label stack for packets destined for 192.168.10.10.

Answer: BE

NEW QUESTION 34
A router RP is configured to perform MPLS LDP graceful restart.
Which three steps are included when the RP sends an LDP initialization message to a neighbor to establish an LDP session? (Choose three.)

A. Learn from Neighbor (N) flag, set to 1
B. Recovery Time field
C. Type-9 LSA
D. Reconnect Timeout field
E. Graceful restart capability in OPEN message
F. Learn from Network (L) flag, set to 1

Answer: BDF

NEW QUESTION 39


```
RA(config)# ip pim ssm default
```
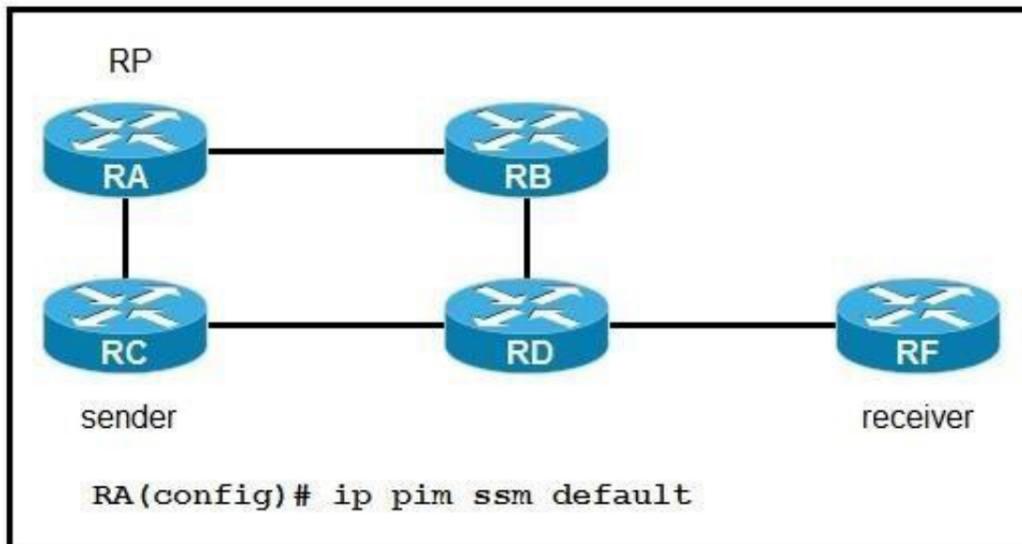
Refer to the exhibit. If router RA is configured as shown, which IPv4 multicast address space does it use?

A. 224.0.0.0/8
B. 225.0.0.0/8
C. 232.0.0.0/8
D. 239.0.0.0/8

Answer: C

NEW QUESTION 42
How can a network administrator secure rest APIs?

A. They can have a general administrator login for multiple users to access that has command entries logged.
B. They can authenticate user sessions and provide the appropriate privilege level.
C. They can ensure that user sessions are authenticated using TACACS+ only.
D. They can allow read and write privileges to all users.

Answer: B

NEW QUESTION 46
Refer to the exhibit. If the NetFlow configuration is updated to version 9, which additional piece of information can be reported?

A. IPv4 flow information
B. BGP AS information
C. IPv6 flow information

D. flow sequence numbers

Answer: C

NEW QUESTION 47
Which service is a VNF role?

A. Network
B. Firewall
C. Storage
D. Compute

Answer: A

NEW QUESTION 52

POST https://*router1:8000*/api/mo/uni/Descriptions.xml

Refer to the exhibit. What does the REST API command do?

A. It removes the information identified by Descriptions.xml.
B. It executes the information specified in Descriptions.xml.
C. It retrieves the information requested by Descriptions.xml.
D. It displays the information identified by Descriptions.xml.

Answer: C

NEW QUESTION 53
Which statement about Network Services Orchestrator (NSO) is true?

A. It must use SDN as an overlay for addressing.
B. It uses YANG modeling language to automate devices.
C. It is used only in service provider environments.
D. It can be used only with XML coding.

Answer: B

NEW QUESTION 57
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