

Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR)

1. DRAG DROP (Drag and Drop is not supported)

Drag and drop the OSs from the left onto the correct descriptions on the right.

Select and Place:

Answer Area

IOS XR	It is a monolithic architecture that runs all modules on one memory space.
IOS	It runs over a Linux platform and pulls the system functions out of the main kernel and into separate processes.
IOS XE	It segments ancillary processes into separate memory spaces to prevent system crashes from errant bugs.

A. See Explanation section for answer.

Answer(s): A

2. 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(s): B

3. Which component is similar to an EVPN instance?

A. router distinguisher

B. MPLS label

C. IGP router ID

D. VRF

Answer(s): D

4. 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(s): D

5. Refer to the exhibit.



BGPsec is implemented on R1, R2, R3, and R4. BGP peering is established between neighboring autonomous systems. Which statement about implementation is true?

A. BGP updates from the iBGP peers are appended with a community of local-as.

B. BGP updates from the all BGP peers are appended with a community of no-export.

C. BGP updates from the eBGP peers are appended with an additional AS path value that is statically set by the domain administrator.

D. BGP updates from the eBGP peers are appended with a BGPsec attribute sequence that includes a public key hash and digital signature.

Answer(s): D

6. You are configuring MPLS traffic-engineering tunnels in the core. Which two ways exist for the tunnel path across the core? (Choose two.)

- A. The dynamic path option is supported only with IS-IS.
- B. Tunnels can be configured with dynamic path or explicitly defined path.
- C. A zero bandwidth tunnel is not a valid option.
- D. The bandwidth statement creates a "hard" reservation on the link.
- E. Tunnel links inherit IGP metrics by default unless overridden.

Answer(s): B E

7. Which configuration mode do you use to apply the mplsldp graceful-restart command in IOS XE Software?

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

Answer(s): D

8. After you analyze your network environment, you decide to implement a full separation model for Internet access and MPLS L3VPN services. For which reason do you make this decision?

- A. It enables EGP and IGP to operate independently.
- B. It enables you to choose whether to separate or centralize each individual service.
- C. It is easier to manage a system in which services are mixed.

D. It requires only one edge router.

Answer(s): A

9. Which statement about the Cisco MPLS TE forwarding adjacency feature is true?

A. It enables the MPLS core to use EIGRP as the routing protocol.

B. It enables the Cisco MPLS TE tunnel to be advertised into the running IGP.

C. It enables the tailend router to advertise routes to the headend router over the tunnel.

D. It enables the headend and tailend routers to establish a bidirectional tunnel.

Answer(s): B

10. While implementing TTL security, you issue the PE(config-router-af)#neighbor 2.2.2.2 ttl-security hops 2 command. After you issue this command, which BGP packets does the PE accept?

A. to 2.2.2.2, with a TTL of 2 or more

B. from 2.2.2.2, with a TTL of less than 2

C. to 2.2.2.2, with a TTL of less than 253

D. from 2.2.2.2, with a TTL of 253 or more

Answer(s): D

11. Refer to the exhibits.

```
ip flow-export destination 192.168.1.2
ip flow-export version 9

interface gigabitethernet0/1
ip flow ingress
```

Which information is provided for traceback analysis when this configuration is applied?

A. source interface

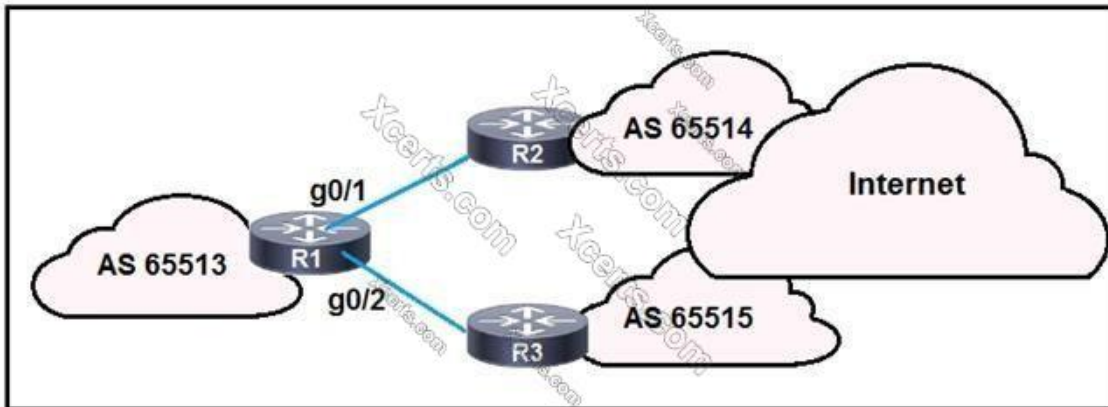
B. packet size distribution

C. IP sub flow cache

D. BGP version

Answer(s): A

12. Refer to the exhibit.



R1 is connected to two service providers and is under a DDoS attack.

Which statement about this design is true if URPF in strict mode is configured on both interfaces?

A. R1 drops all traffic that ingresses either interface that has a FIB entry that exits a different interface.

B. R1 drops destination addresses that are routed to a null interface on the router.

C. R1 permits asymmetric routing as long as the AS-PATH attribute entry matches the connected AS.

D. R1 accepts source addresses on interface gigabitethernet0/1 that are private addresses.

Answer(s): A

13. Refer to the exhibit.

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

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(s): C

14. Refer to the exhibit.

```
Router 1:
ip route 192.168.1.0 255.255.255.0 null 0 tag 1
route-map ddos
match tag 1
set local preference 150
set community no export
route-map ddos permit 20
router bgp 65513
 redistribute static route-map ddos
Router 2:
Interface gigabitethernet0/1
 ip verify unicast reverse-path
```

An engineer is preparing to implement data plane security configuration. Which statement about this configuration is true?

A. Router 2 is the router receiving the DDoS attack.

B. Router 1 must be configured with uRPF for the RTBH implementation to be effective.

C. Router 1 is the trigger router in a RTBH implementation.

D. Router 2 must configure a route to null 0 for network 192.168.1.0/24 for the RTBH implementation to be complete.

Answer(s): A

15. Which configuration modifies Local Packet Transport Services hardware policies?

A.

B.

C.

D.

Answer(s): C

16. Which additional feature does MPLS DiffServ tunneling support?

A. matching EXP and DSCP values

B. PHB layer management

C. using GRE tunnels to hide markings

D. interaction between MPLS and IGP

Answer(s): B

17. You are creating new Cisco MPLS TE tunnels. Which type of RSVP message does the headend router send to reserve bandwidth on the path to the tailend router?

A. path

B. tear

C. error

D. reservation

Answer(s): A

18. Which statement describes the advantage of a Multi-Layer control plane?

A. It provides multivendor configuration capabilities for Layer 3 to Layer 1.

B. It automatically provisions, monitors, and manages traffic across Layer 0 to Layer 3.

C. It supports dynamic wavelength restoration in Layer 0.

D. It minimizes human error configuring converged networks.

Answer(s): C

19. DRAG DROP (Drag and Drop is not supported)

Drag and drop the technologies from the left onto the correct definitions on the right.

Select and Place:

Answer Area

DWDM	required for routes and switches to have DWDM and ITU-T G.709 implemented
ROADM	used to amplify an optical signal
IPoDWDM	used to drop certain lambdas within a DWDM ring at a specific location
EDFA	increases bandwidth over a single fiber by using different wavelengths

A. See Explanation section for answer.

Answer(s): A

20. An engineer is setting up overlapping VPNs to allow VRF ABC and XYZ to communicate with VRF CENTRAL but wants to make sure that VRF ABC and XYZ cannot communicate. Which configuration accomplishes these objectives?

A.

B.

C.

D.

Answer(s): B
