



350-501^{Q&As}

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

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QUESTION 1

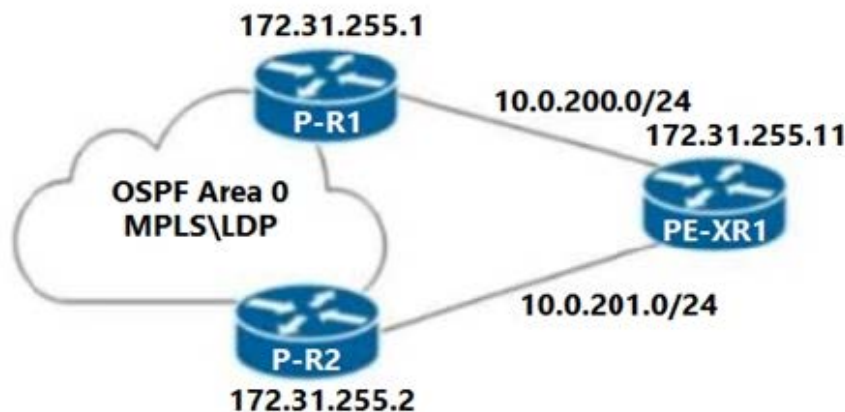
Which control plane protocol is used between Cisco SD-WAN routers and vSmart controllers?

- A. OTCP
- B. OMP
- C. UDP
- D. BGP

Correct Answer: B

QUESTION 2

Refer to the exhibit.



```
RP/0/0/CPU0:PE-XR1#show mpls ldp neighbor detail
Mon Dec 14 07:48:56.703 UTC
Peer LDP Identifier: 172.31.255.2:0
  TCP connection: 172.31.255.2:646 - 172.31.255.11:36271
  Graceful Restart: No
  Session Holdtime: 180 sec
  State: Oper: Msgs sent/rcvd: 17/15: Downstream-Unsolicited
  Up time: 00:01:52
  LDP Discovery Sources:
    IPv4: (1)
      GigabitEthernet0/0/0/1.201
    IPv6: (0)
  Addresses bound to this peer:
    IPv4: (3)
      10.0.24.2      10.0.201.2      172.31.255.2
    IPv6: (0)
  Peer holdtime: 180 sec: KA interval: 60 sec: Peer state: Estab
  NSR: Disabled

Peer LDP Identifier: 172.31.255.1:0
  TCP connection: 172.31.255.1:646 - 172.31.255.11:44801
  Graceful Restart: No
  Session Holdtime: 180 sec
  State: Oper: Msgs sent/rcvd: 17/15: Downstream-Unsolicited
  Up time: 00:01:47
  LDP Discovery Sources:
    IPv4: (1)
      GigabitEthernet0/0/0/0.200
    IPv6: (0)
  Addresses bound to this peer:
    IPv4: (3)
      10.0.14.1      10.0.200.1      172.31.255.1
    IPv6: (0)
  Peer holdtime: 180 sec: KA interval: 60 sec: Peer state: Estab
  NSR: Disabled
```

The network team must implement MPLS LDP session protection with two requirements:



1.

Session protection is provided for core loopback IP addresses only.

2.

The LDP session must remain operational for one hour when the WAN link on PE- XR1 fails.

Which configuration must the team implement on PE-XR1?

A. configure terminal
ipv4 access-list LDP-SESSION-PROTECTION permit ipv4 172.31.255.0 0.0.0.255 any!
mpls ldp session protection for LDP-SESSION-PROTECTION duration 60
end

B. configure terminal
ipv4 access-list LDP-SESSION-PROTECTION permit ipv4 172.31.255.0 0.0.0.255 any!
mpls ldp session protection for LDP-SESSION-PROTECTION duration 3600
end

end

C. configure terminal
ipv4 access-list LDP-SESSION-PROTECTION permit ipv4 172.31.255.0 0.0.0.255 any
permit ipv4 10.0.0.0 0.0.255.255 any!
mpls ldp session protection for LDP-SESSION-PROTECTION duration 60
end

D. configure terminal
ipv4 access-list LDP-SESSION-PROTECTION permit ipv4 172.31.255.0 0.0.0.255 any
permit ipv4 10.0.0.0 0.0.255.255 any!
mpls ldp session protection for LDP-SESSION-PROTECTION duration 3600
end

Correct Answer: D

QUESTION 3

What is a characteristic of prefix segment identifier?

A. It contains the interface address of the device per each link.

B. It contains a router to a neighbor.

C. It is locally unique.

D. It is globally unique.

Correct Answer: D

QUESTION 4

Refer to the exhibit.

```
snmp-server community ciscotest ro 2
```



What is significant about the number 2 in the configuration?

- A. It indicates two SNMP managers can read and write with the agent using community string ciscotest.
- B. It dictates the number of sessions that can be open with the SNMP manager.
- C. It is the numeric name of the ACL that contains the list of SNMP managers with access to the agent.
- D. It represents the version of SNMP running.

Correct Answer: C

QUESTION 5

Refer to the exhibit.

```
mpls label range 16 100000 static 100002 1048570  
mpls label protocol 1dp
```

```
mpls 1dp graceful-restart  
interface Loopback0  
! ip address 10.20.20.20 255.255.255.255  
no ip directed-broadcast  
no ip mroute-cache  
! interface Gi1/1/0  
ip address 10.12.0.2 255.255.0.0  
no ip directed-broadcast  
mpls label protocol ldp  
mpls ip  
! router ospf 100  
log-adjacency-changes  
nsf cisco enforce global  
redistribute connected subnets  
network 10.20.20.20 0.0.0.0 area 0  
network 10.12.0.0 0.0.255.255 area 0  
! mpls ldp router-id Loopback0 force
```

A network administrator implemented MPLS LDP changes on PE-A LSR device. The engineer must ensure there are no LDP peer are fully operational. Which LDP feature must the engineer apply to the existing configuration to eliminate the problem?

- A. Configure MPLS LDP IGP synchronization on the network.
- B. Configure MPLS LDP NSR for all LDP sessions.
- C. Enable LDP session protection under the routing protocol.
- D. Disable IP CEF on routers running LDP and enable LDP.

Correct Answer: B

Explanation: <https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/msp/configuration/xe-3s/mp-ha-xe-3s-book/mp-nsr-ldp-suppl.pdf>

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