Cisco

Exam Questions 350-501

Implementing and Operating Cisco Service Provider Network Core Technologies

NEW QUESTION 1

```
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 2
Which configuration enables BGP FlowSpec client function and installation of policies on all local interfaces?

A. flowspec address- family ipv4 local-install interface-all
B. flowspec address- family ipv4 install interface-all local
C. flowspec address- family ipv4 install interface-all
D. flowspec address- family ipv4 local-install all-interface

Answer: A

NEW QUESTION 3

```
CE1#
interface FastEthernet/0/0/1
description **** HUB CE non router ****
ip address 10.0.12.1 255.255.255.0

router ospf 100
log-adjacency-changes
network 10.0.12.0 0.0.255.255 area 0

CE2#
interface Serial0/0/9
description **** SPOKE CE router ****
encapsulation ppp
ip address 10.0.12.12 255.255.255.0

router ospf 100
log-adjacency-changes
network 10.0.12.0 0.0.255.255 area 0
```

Refer to the exhibit. A network engineer is configuring customer edge routers to finalize a L2VPN over MPLS deployment. Assume that the AToM L2VPN service that connects the two CEs is configured correctly on the service provider network.
Which action causes the solution to fail?

A. OSPF does not work with L2VPN services.
B. The routing protocol network types are not compatible.
C. A loopback with a /32 IP address has not been used.
D. The xconnect statement has not been defined.

Answer: B

NEW QUESTION 4
Which task must be performed first to implement BFD in an IS-IS environment?

A. Configure BFD in an interface configuration mode.
B. Disable Cisco Express Forwarding on all interfaces running routing protocols other than IS-IS.
C. Configure all IS-IS routers as Level 2 devices.
D. Configure BFD under the IS-IS process.
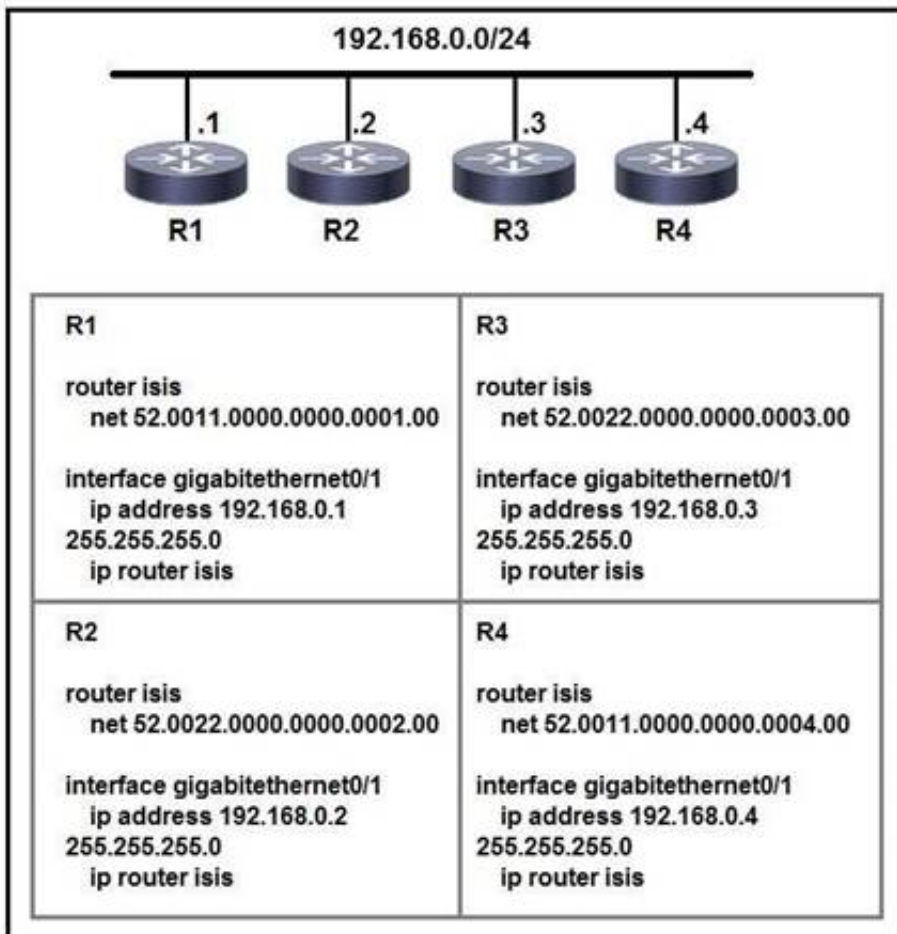
Answer: D

NEW QUESTION 5
A customer of an ISP requests support to setup a BGP routing policy. Which BGP attribute should be configured to choose specific BGP speakers as preferred points for the customer AS?

A. lowest multi-exit discriminator
B. highest local preference outbound

C. lowest local preference inbound
D. highest local preference inbound

Answer: B

NEW QUESTION 6

```
                        192.168.0.0/24

        .1          .2          .3          .4

        R1          R2          R3          R4
```

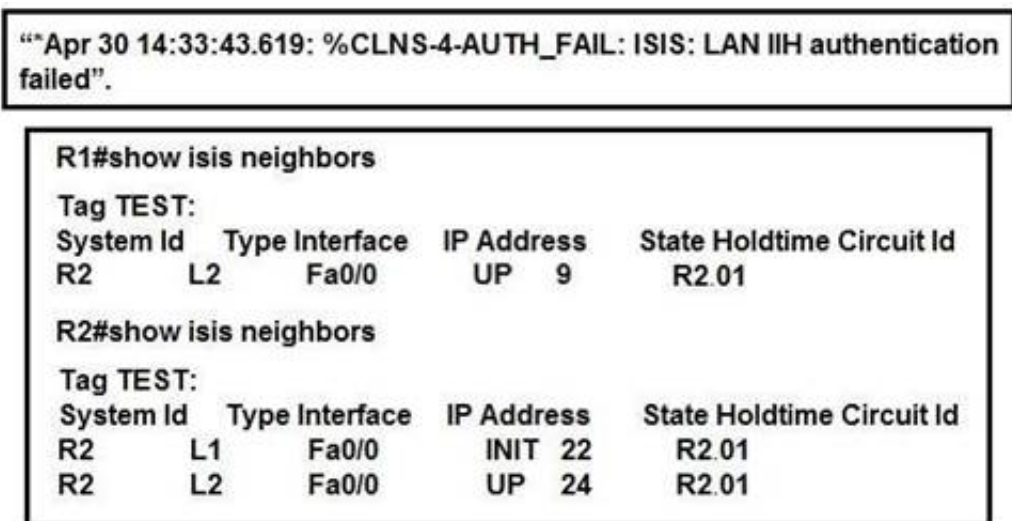| R1	R3

router isis
   net 52.0011.0000.0000.0001.00
 	
interface gigabitethernet0/1
  ip address 192.168.0.1
255.255.255.0
  ip router isis
	router isis
	   net 52.0022.0000.0000.0003.00
	
	interface gigabitethernet0/1
	  ip address 192.168.0.3
	255.255.255.0
	  ip router isis

R2	R4

router isis
   net 52.0022.0000.0000.0002.00
 	
interface gigabitethernet0/1
  ip address 192.168.0.2
255.255.255.0
  ip router isis
	router isis
	   net 52.0011.0000.0000.0004.00
	
	interface gigabitethernet0/1
	  ip address 192.168.0.4
	255.255.255.0
	  ip router isis

Refer to the exhibit. Which two statements about the IS-IS topology are true? (Choose two.)

A. R1 and R4 are Level 2 neighbors.
B. All four routers are operating as Level 1-2 routers.
C. All four routers are operating as Level 2 routers only.
D. All four routers are operating as Level 1 routers only.
E. R1 and R2 are Level 2 neighbors.

Answer: AB

NEW QUESTION 7

```
"*Apr 30 14:33:43.619: %CLNS-4-AUTH_FAIL: ISIS: LAN IIH authentication
failed".
```

```
R1#show isis neighbors

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

R2#show isis neighbors

Tag TEST:
System Id    Type Interface    IP Address    State Holdtime Circuit Id
R2        L1      Fa0/0          INIT  22       R2.01
R2        L2      Fa0/0          UP    24       R2.01
```

Refer to the exhibits. R1 and R2 are directly connected and IS-IS routing has been enabled between R1 and R2. R1 generates the above log message periodically. Based on this output, which statement is true?

A. IS-IS neighbor authentication is failing for Level 2 PDUs only.
B. IS-IS neighbor authentication is failing for Level 2 first and then for Level 1 PDUs.
C. IS-IS neighbor authentication is failing for Level 1 and Level 2 PDUs.
D. IS-IS neighbor authentication is failing for Level 1 PDUs only.

Answer: D

NEW QUESTION 8

```
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 9
Egress PE NAT is being used via a single centralized router to provide Internet access to L3VPN customers.
Which description of the NAT operation is true?

A. The NAT table contains a field to identify the inside VRF of a translation.
B. Multiple address pools are needed for the same L3VPN because each site has a separate NAT.
C. The different L3VPNs using the Internet access must not have IP overlaps internally.
D. Users in different VRFs cannot share the same outside global IP address.

Answer: A

NEW QUESTION 10

```
mpls label protocol ldp
mpls ldp router-id loopback 0
mpls ip
ip cef
```

Refer to the exhibit. A network operator working for service provider with an employee id: 1234:56:789 applied this configuration to a router. Which additional step should the engineer use to enable LDP?

A. Enable MPLS LDP on the interface.
B. Disable Cisco Express Forwarding globally.
C. Delete the static router ID.
D. Configure the both keyword to enable LDP globally.

Answer: A

NEW QUESTION 10
When configuring traffic engineering tunnels in Cisco MPLS core network, you see the traffic is not tacking the expected path in the core.
Which command do you use to quickly check path of a TE tunnel?

A. traceroute <tunnel destination IP>
B. show mpls traffic-engineering tunnels
C. Ping <tunnel destination IP>
D. traceroute mpls ipv4 <tunnel destination>

Answer: D

NEW QUESTION 11

```
class-map WEB
    match protocol http
```

Refer to the exhibit. Which statement describes the effect of this configuration?

A. It matches HTTP traffic for use in a policy map.
B. It applies a service policy to all interfaces remarking HTTP traffic.
C. It creates an ACL named WEB that filters HTTP traffic.
D. It modifies the default policy map to allow all HTTP traffic through the router.

Answer: A

NEW QUESTION 13

```
route-policy ciscotest
    if destination in acl10 then
        pass
    else
        set local-preference 300
    endif
end-policy end
```

Refer to the exhibit. A network engineer is implementing a BGP routing policy. Which effect of this configuration is true?

A. All traffic that matches acl10 is allowed without any change to its local-preference.
B. All traffic that matches acl10 is dropped without any change to its local-preference.

C. If traffic matches acl10, it is allowed and its local-preference is set to 300.
D. All traffic is assigned a local-preference of 300 regardless of its destination.

Answer: A

NEW QUESTION 18

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

Refer to the exhibit. 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.

Answer: C

NEW QUESTION 23

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 25

What is the difference between SNMP and model- driven telemetry?

A. SNMP uses the YANG data modeling language.
B. Telemetry uses traps and inform messages to deliver data to a network administrator on a polling basis.
C. Telemetry allows for modeled network data to be pushed to the network administrator on an as-needed basis.
D. SNMP pushes network data to the network administrator whenever it is queried.

Answer: C

NEW QUESTION 26

```
<tag/>
```

Refer to the exhibit. What does this value mean when it is received in XML?

A. It indicates a value assigned by a network administrator to tag a route.
B. It indicates a break in a sequence.
C. It means a data field is blank.
D. It shows the ending of the script.

Answer: D

NEW QUESTION 31

```
telemetry model-driven
sensor-group cisco
sensor-path Cisco-IOS-XR-infra-statsd-oper:infra-statistics/interfaces/interface/latest/generic-counters
commit
```

Refer to the exhibit. This configuration is being applied on an IOS XR route. Which statement about this configuration is true?

A. It is used to create a sensor-group and has a list of YANG models for streaming.
B. It is used to create a subscription to specify the streaming interval.
C. It is used to identify MIB entries and has a list of YANG models.
D. It is used to identify traps for SNMP polling.

Answer: A

NEW QUESTION 36

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