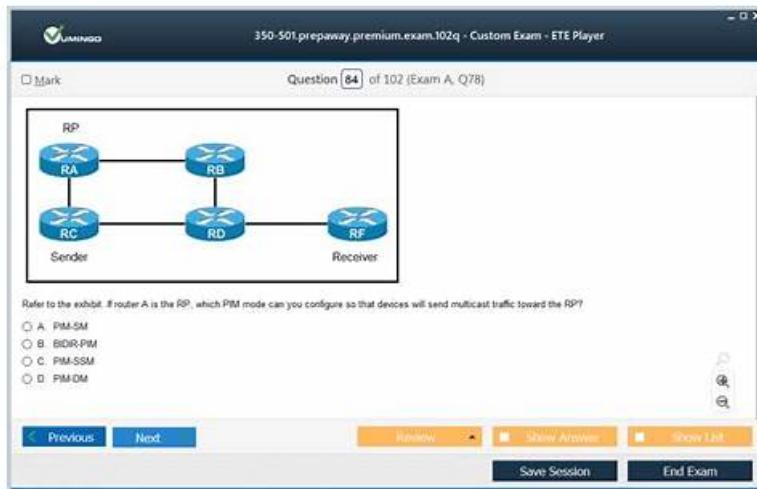


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Cisco Implementing and Operating Cisco Service Provider Network Core Technologies Sample Questions (Q129-Q134):

NEW QUESTION # 129

Drag and drop the OSPF and IS-IS Cisco MPLS TE extensions from the left to their functional descriptions on the right.

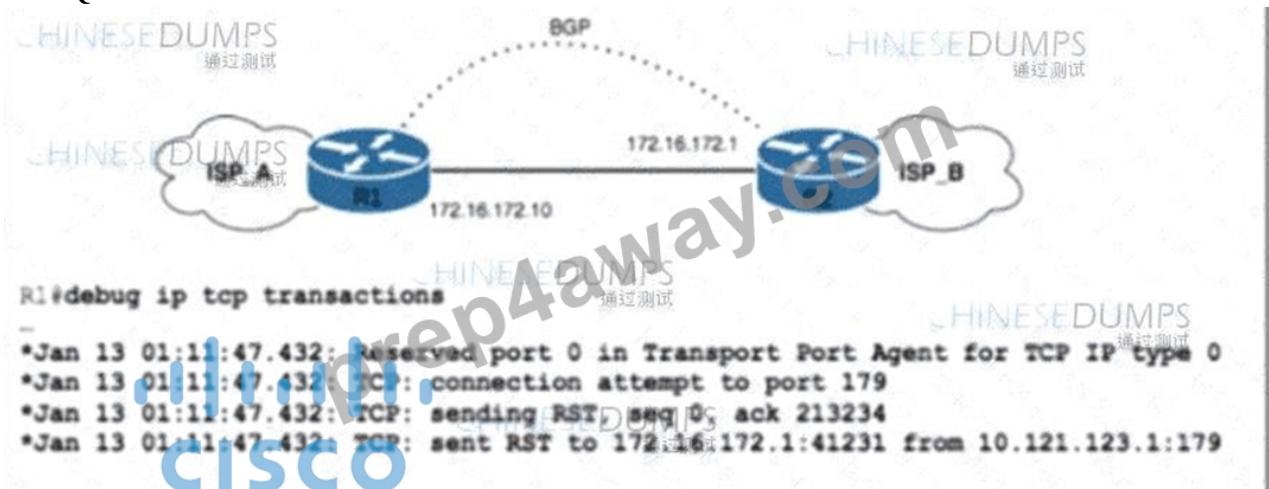
TLV Type 2	includes an 8-bit default metric
TLV Type 22	supports a 32-bit metric and an up/down bit
TLV Type 134	carries a 32-bit router ID for traffic engineering
TLV Type 135	advertisements are flooded throughout the entire area network
Type 10 Opaque LSA	contains information about the link and includes other sub-TLVs

Answer:

Explanation:

TLV Type 2	TLV Type 22
TLV Type 22	TLV Type 135
TLV Type 134	TLV Type 134
TLV Type 135	TLV Type 2
Type 10 Opaque LSA	Type 10 Opaque LSA

NEW QUESTION # 130



Refer to the exhibit. ISP_A and ISP_B use AS numbers 38321 and 16213 respectively. After a network engineer reloaded router R1, the BGP session with R2 failed to establish. The engineer confirmed BGP next-hop availability with a connectivity test between the router loopback addresses 10.121.123.2 and 10.121.123.1, as well as between interfaces G1/1 and G1/2. EBGP multihop has been configured on both routers. Which action must the engineer take to resolve the issue?

- A. Configure transport connection-mod passive on R2.

- B. Configure remote-as 16213 on R1.
- C. **Configure neighbor update-source lo0 on R2**
- D. Configure neighbor 172.16.172.1 authentication on R1

Answer: C

Explanation:

After a router reload, BGP sessions may fail to re-establish due to incorrect source interface configurations for BGP sessions. Since EBGP multihop has been configured, it's essential that the BGP session uses the correct source interface for establishing the connection. By configuring the neighbor update-source command with the loopback interface on R2, the BGP session will use the stable loopback address rather than the physical interface, which can change state. This ensures that the BGP session remains stable and is not affected by interface states. References: BGP Troubleshooting Cheat Sheet With Examples - Catchpoint2, BGP session stuck in Idle state after NSRP failover - Juniper Networks3, BGP Session is Disconnected - Network Playbook

NEW QUESTION # 131

Refer to the exhibits:

**Apr 30 14:33:43.619: %CLNS-4-AUTH_FAIL: ISIS: LAN LIIH 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
		R1	L1	Fa0/0		INIT	22	R2.01
		R1	L2	Fa0/0		UP	24	R2.01

R1 and R2 are directly connected and IS-IS routing has been enabled between R1 and R2. R1 message periodically. Based on this output, which statement is true?

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

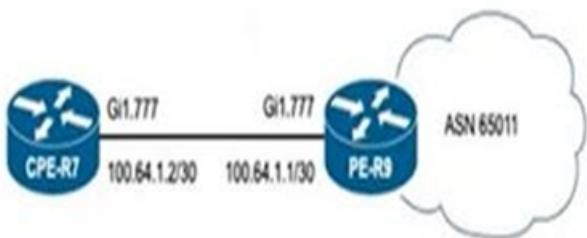
Answer: A

Explanation:

The error message "%CLNS-4-AUTH_FAIL: ISIS: LAN LIIH authentication failed" indicates that there is an authentication failure in the IS-IS routing protocol between routers R1 and R2. In the exhibit, it can be observed that R2 has a state of "UP" for its IS-IS neighbor relationship, while R1 is in "INIT" state. This discrepancy in states indicates an issue with the establishment of the neighbor relationship, which can be attributed to an authentication failure at both Level 1 and Level 2 PDUs as indicated by option B.

NEW QUESTION # 132

Refer to the exhibit.



```

PE-R9#show run interface GigabitEthernet1.777
Building configuration...
Current configuration : 133 bytes
interface GigabitEthernet1.777
  encapsulation dot1Q 777
  ip address 100.64.1.1 255.255.255.252
  ip access-group INFRA-ACL out
end

PE-R9#show access-list INFRA-ACL
Extended IP access list INFRA-ACL
  10 permit tcp 192.168.0.0 0.0.255.255 100.64.0.0 0.31.255.255 eq telnet
  20 permit icmp any 100.64.0.0 0.31.255.255 echo
  30 permit icmp any 100.64.0.0 0.31.255.255 echo-reply
  40 permit udp host 172.29.100.2 100.64.0.0 0.31.255.255 eq snmp
  50 permit udp host 172.29.200.2 100.64.0.0 0.31.255.255 eq snmp
  60 permit tcp 192.168.0.0 0.0.255.255 range ftp-data ftp 100.64.0.0 0.31.255.255 established
  70 permit tcp 192.168.0.0 0.0.255.255 eq 22 100.64.0.0 0.31.255.255 established
  80 permit tcp 172.16.0.0 0.0.0.255 eq 22 100.64.0.0 0.31.255.255 established
  100 deny ip any any

```

To protect in-band management access to CPE-R7, an engineer wants to allow only SSH management and provisioning traffic from management network 192.168.0.0/16. Which infrastructure ACL change must be applied to router PE-R9 to complete this task?

- A.

```
ip access-list extended INFRA-ACL
15 permit tcp 192.168.0.0 0.0.255.255 range 49152 65535 100.64.0.0 0.31.255.255 eq 443
```
- B.

```
ip access-list extended INFRA-ACL
no 10
15 permit tcp 192.168.0.0 0.0.255.255 eq 22 100.64.0.0 0.31.255.255 eq 22
```
- C.

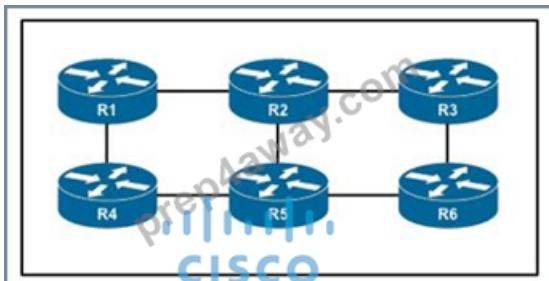
```
ip access-list extended INFRA-ACL
15 permit tcp 192.168.0.0 0.0.255.255 range 49152 65535 100.64.0.0 0.31.255.255 eq 22
```
- D.

```
ip access-list extended INFRA-ACL
no 10
15 permit tcp 192.168.0.0 0.0.255.255 range 49152 65535 100.64.0.0 0.31.255.255 eq 22
```

Answer: B

NEW QUESTION # 133

Refer to the exhibit.



An engineer is configuring an administrative domain in the given multi-vendor environment with PIM-SM. Which feature must the engineer implement so that devices will dynamically learn the RP?

- A. BSR
- B. SSM
- C. Auto-RP
- D. BIDIR-PIM

Answer: A

NEW QUESTION # 134

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