



300-101^{Q&As}

Implementing Cisco IP Routing

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QUESTION 1

Drag and drop the ACL types onto their description

Select and Place:

EXTENDED	Access lists that grant access per user to a specific source/destination host through a user authentication process (such as TACACS+ or RADIUS)
DYNAMIC	ACLs that control traffic by the comparison of the source address of the IP packets to the addresses configured in the ACL
STANDARD	ACL that control traffic by the comparison of the source and destination addresses of the IP packets to the addresses configured in the ACL. Uses 100-199 and 2000-2699
TIME BASED	ACLs that allow IP packets to be filtered based on upper-layer session information.
REFLEXIVE	ACLs that allow packets based on day and time

Correct Answer:

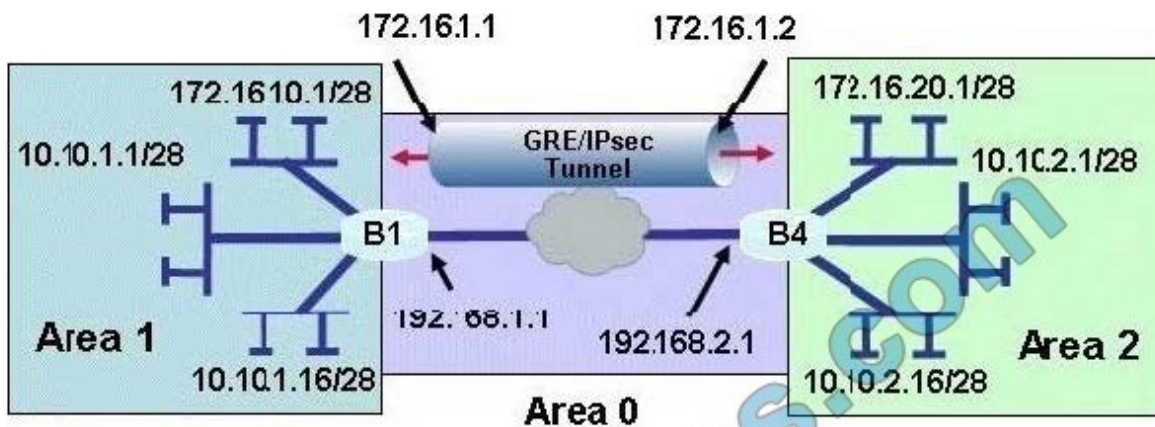
	REFLEXIVE
	or RADIUS)
	STANDARD
	EXTENDED Uses 100-199 and 2000-2699
	DYNAMIC
	TIME BASED

<https://www.cisco.com/c/en/us/support/docs/security/ios-firewall/23602-confaccesslists.html#timebasedtimerange>

QUESTION 2



Refer to the exhibit. A new TAC engineer came to you for advice. A GRE over IPsec tunnel was configured, but the tunnel is not coming up. What did the TAC engineer configure incorrectly?



Router B1 Configuration

```
crypto ipsec transform-set T0 esp-sha-hmac esp-3des
crypto map tunnel 1 ipsec-isakmp
 set transform-set T0
 set peer 192.168.2.1
 match address 102
crypto isakmp policy 1
 authentication pre-share
 group 2
crypto isakmp key ***** address 192.168.2.1
access-list 102 permit esp host 192.168.1.1 host
192.168.2.1
access-list 102 permit udp host 192.168.1.1 eq isakmp
 host 192.168.2.1
deny p any any log
```

Router B4 Configuration (con't)

```
Interface f0/0
 ip address 192.168.1.1 255.255.255.0
interface Tunnel0
 ip address 172.16.1.1 255.255.255.0
crypto map tunnel
 tunnel source f0/0
 tunnel destination 192.168.2.1
 tunnel path-mtu-discovery
 ip ospf mtu-ignore
router ospf 200
 network 10.10.1.10.0.0.224 area 1
 network 172.10.10.10.0.0.240 area 1
 network 192.168.10.0.0.0.255 area 0
```

Select the best response.

- A. The crypto isakmp configuration is not correct.
- B. The crypto map configuration is not correct.
- C. The interface tunnel configuration is not correct.
- D. The network configuration is not correct; network 172.16.1.0 is missing.

Correct Answer: A

QUESTION 3

Which routing protocol routers traffic through the best path and second best path at the same time?



- A. OSPF
- B. EIGRP
- C. RIP
- D. BGP

Correct Answer: B

QUESTION 4

What two features are benefits of using GRE tunnels with IPsec over using an IPsec tunnel alone in building-to-building site-to-site VPNs? (Choose two.)

- A. allows dynamic routing securely over the tunnel
- B. IKE keepalives are unidirectional and sent every ten seconds
- C. reduces IPsec headers overhead since tunnel mode is used
- D. supports non-IP traffic over the tunnel
- E. uses Virtual Tunnel Interface (VTI) to simplify the IPsec VPN configuration

Correct Answer: AD

QUESTION 5

A router with an interface that is configured with ipv6 address autoconfig also has a linklocal address assigned. Which message is required to obtain a global unicast address when a router is present?

- A. DHCPv6 request
- B. router-advertisement
- C. neighbor-solicitation
- D. redirect

Correct Answer: B

Autoconfiguration is performed on multicast-enabled links only and begins when a multicast-enabled interface is enabled (during system startup or manually). Nodes (both, hosts and routers) begin the process by generating a link-local address for the interface. It is formed by appending the interface identifier to wellknown link-local prefix FE80::0. The interface identifier replaces the right-most zeroes of the link-local prefix. Before the link-local address can be assigned to the interface, the node performs the Duplicate Address Detection mechanism to see if any other node is using the same link-local address on the link. It does this by sending a Neighbor Solicitation message with target address as the "tentative" address and destination address as the solicited-node multicast address corresponding to this tentative address. If a node responds with a Neighbor Advertisement message with tentative address as the target address, the address is a duplicate address and must not be used. Hence, manual configuration is required. Once the node verifies that its tentative address is unique on the link, it assigns that link-local address to the interface. At this stage, it has IP-connectivity to other neighbors on this link. The autoconfiguration on the routers stop at this stage,



further tasks are performed only by the hosts. The routers will need manual configuration (or stateful configuration) to receive site-local or global addresses. The next phase involves obtaining Router Advertisements from routers if any routers are present on the link. If no routers are present, a stateful configuration is required. If routers are present, the Router Advertisements notify what sort of configurations the hosts need to do and the hosts receive a global unicast IPv6 address. Reference: <https://sites.google.com/site/amitsciscozone/home/important-tips/ipv6/ipv6-statelessautoconfiguration>

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