



# 300-101<sup>Q&As</sup>

Implementing Cisco IP Routing

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### QUESTION 1

Refer to the exhibit. Based upon the configuration, you need to understand why the policy routing match counts are not increasing. Which would be the first logical step to take?

```
R1#show route-map divert
route-map divert, permit, sequence 1
  Match clauses:
    ip address (access-lists): 101
  set clauses:
    ip next-hop 212.50.185.126
    ip next-hop recursive 192.0.0.1
    ip default next-hop 212.50.185.125
Policy routing matches: 0 packets, 0 bytes
```

- A. Confirm if there are other problematic route-map statements that precede divert.
- B. Check the access list for log hits.
- C. Check the routing table for 212.50.185.126.
- D. Remove any two of the set clauses. (Multiple set clause entries will cause PBR to use the routing table.)

Correct Answer: B

### QUESTION 2

Drag and drop the ACL types onto their description

Select and Place:

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



Correct Answer:

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

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

**QUESTION 3**

How is authentication handled with OSPFv3?

- A. OSPFv3 for IPv6 authentication is supported by SHA-1 authentication.
- B. OSPFv3 for IPv6 authentication is supported by MD5 authentication
- C. OSPFv3 for IPv6 authentication is supported by IPv6 IPsec
- D. OSPFv3 for IPv6 authentication is supported by IPv4 IPsec

Correct Answer: C

**QUESTION 4**

Which three functionalities are specific to stateful NAT64? (Choose three)

- A. No constraint is put on the number of endpoints due to 1:N translation
- B. It requires IPv4-transalable IPv6 address1
- C. it helps ensure end-to-end address transparency and scalability
- D. A state or bindings are created on every unique translation
- E. It conserves IPv4 addresses



Correct Answer: ADE

**QUESTION 5**

Drag and drop the adverse network conditions from the left on the correct descriptions on the right.

Select and Place:

excessive unicast flooding	caused by including a host port in STP
out-of-order packets	condition caused by including a host port in STP
TCP starvation	condition in which packets require an excessive length of time to traverse a switch
asymmetric routing	Potential effect of excessive UDP traffic on link
latency	Potential result of disabling FIFO

Correct Answer:

	excessive unicast flooding
	asymmetric routing
	latency
	TCP starvation
	out-of-order packets



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