



300-410^{Q&As}

Implementing Cisco Enterprise Advanced Routing and Services (ENARSI) (Include 2022 Newest Simulation Labs)

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**QUESTION 1**

A network engineer needs to verify IP SLA operations on an interface that shows an indication of excessive traffic. Which command should the engineer use to complete this action?

- A. show frequency
- B. show track
- C. show reachability
- D. show threshold

Correct Answer: B

QUESTION 2

Refer to the exhibit. An engineer is trying to block the route to 192.168.2.2 from the routing table by using the configuration that is shown. The route is still present in the routing table as an OSPF route. Which action blocks the route?

```
Router#show access-lists
Standard IP access list 1
  10 permit 192.168.2.2 (1 match)
Router#
Router#show route-map
route-map RM-OSPF-DL, permit, sequence 10
  Match clauses:
    ip address (access-lists): 1
  Set clauses:
    Policy routing matches: 0 packets, 0 bytes
Router#
Router#show running-config | section ospf
router ospf 1
  network 192.168.1.1 0.0.0.0 area 0
  network 192.168.12.0 0.0.0.255 area 0
  distribute-list route-map RM-OSPF-DL in
Router#
```

- A. Use an extended access list instead of a standard access list.
- B. Change sequence 10 in the route-map command from permit to deny.



- C. Use a prefix list instead of an access list in the route map.
- D. Add this statement to the route map: route-map RM-OSPF-DL deny 20.

Correct Answer: B

QUESTION 3

Which commands will display the feasible successors, the feasible distance, and the advertised distance for networks learned by a router?

- A. show ip eigrp topology
- B. show ip route
- C. show bgp neighbors
- D. show ip eigrp traffic
- E. show ip route eigrp

Correct Answer: A

To view the feasible successors, the feasible distance, and the advertised distance, you would use the show ip eigrp topology command. A sample output of this command is below.



```
Router2# show ip eigrp topology
IP-EIGRP Topology Table for process 100

Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
r - Reply status

P 10.10.0.0/16, 1 successors, FD is 2169856
  via Connected, Serial0
SIA 10.0.0.0/8, 1 successors, FD is 2169856
  via Summary (2169856/0), Null0
P 10.20.0.0/16, 1 successors, FD is 2169856
  via Connected, Serial1
P 65.0.0.0/8, 1 successors, FD is 2297856
  via 10.20.0.1 (2297856/128256), Serial1
  via 10.20.1.6 (2589799/2672569), FastEthernet0
P 192.168.10.0/24, 1 successors, FD is 2297856
  via 10.10.0.1 (2297856/128256), Serial0
P 130.10.0.0/16, 1 successors, FD is 2297856
  via 10.20.0.1 (2297856/128256), Serial1
P 150.10.0.0/16, 1 successors, FD is 2297856
  via 10.10.0.1 (2297856/128256), Serial0
  via 10.20.0.1 (2594586/2448152), FastEthernet1
P 200.10.10.0/24, 1 successors, FD is inaccessible, Q
  2 replies, active never, query-origin, Successor Origin
  via 10.1.1.3 (395212452/390742563), r, Serial 0
  Remaining replies:
  via 10.1.1.2, r, Serial 0
```

The table lists all routes to networks and their advertised distance and feasible distance. This information is used to select the successor and feasible successor for each network. Before a route can be considered as a feasible successor or

backup, the feasible distance of the route must be a larger value than the advertised distance.

The following information can be extracted from this output:

The route 15.10.0.0/16 has a feasible successor. If you examine the feasible and advertised distances in the brackets next to the two potential feasible successor routes [feasible distance/advertised distance], you will see that for the route

15.10.0.0/16 via 10.10.5.1, the feasible distance of the route is greater (2594586) than the advertised distance (2448152), which qualifies it as a feasible successor. The route 65.0.0.0/8 does not have a feasible successor. The route

65.0.0.0/8 via 10.20.1.6 has a feasible distance (2589779) that is less than the advertised distance (2672569), so it does not qualify.

The router at 10.20.0.1 is directly connected to the networks 65.0.0.0/8 and 150.10.0.0/16. This can be deduced by the fact that the address 10.20.0.1 is the source of the successor routes for those networks. The route to 200.10.10.0/24 is

undergoing recomputation, as evidenced by the line FD is Inaccessible. It also tells you that Router2 sent a query to 10.1.1.2 and is waiting for a reply, as evidenced by the line Remaining replies: via 10.1.1.2, r, Serial 0. The route to the

10.0.0.0/8 network is showing a convergence problem, as evidenced by the code SIA to the left of its entry. This stands for Stuck In Active. An active state is present when the local router has queried for a new route to the network. Stuck in



Active occurs when no response has been received, and the local router marks it SIA.

The show ip route and the show ip route eigrp commands simply display the routing table, which does not display the advertised distance. Below is an example of the show ip route command executed on a router running EIGRP:

```
RouterA# show ip route
<output omitted>

D 192.168.0.0/24 [90/21954686] via 172.16.10.44, 00:01:12, Serial0
172.16.0.0/16 is variably subnetted, 7 subnets, 2 masks
D 172.16.10.96/29 [90/22794545] via 172.16.10.86, 00:05:09, Serial3
D 172.16.10.80/29 [90/21946586] via 172.16.10.74 00:05:12, Serial1
D 172.16.10.88/29 [90/22746464] via 172.16.10.41, 00:13:50, Serial2
C 172.16.10.68/30 is directly connected, Serial1
C 172.16.10.64/30 is directly connected, Serial0
C 172.16.10.76/30 is directly connected, Serial3
C 172.16.10.72/30 is directly connected, Serial2
```

The show ip eigrp traffic command does not show feasible successors, feasible distance or advertised distance. It displays statistics on hellos, updates, queries, replies and acknowledgments. Sample output is shown below:

```
Router# show ip eigrp traffic
```

```
IP-EIGRP Traffic Statistics for process 100
```

```
Hellos sent/received: 215/212
```

```
Updates sent/received: 7/25
```

```
Queries sent/received: 2/0
```

```
Replies sent/received: 0/2
```

```
Acks sent/received: 21/17
```

The show ip bgp command displays information involving BGP and has nothing to do with EIGRP.

Objective:

Layer 3 Technologies

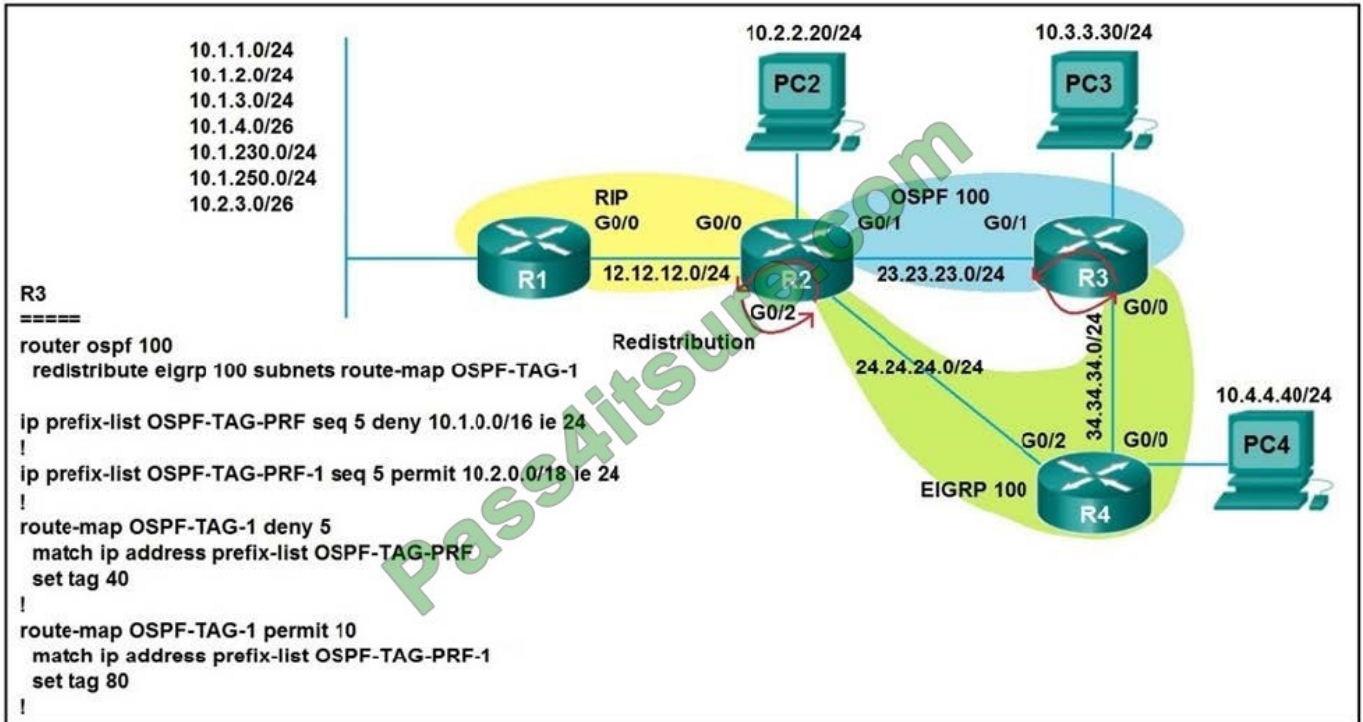
Sub-Objective:

Configure and verify policy-based routing

References:

Cisco IOS IP Routing: EIGRP Command Reference > show ip eigrp topology

QUESTION 4



Refer to the exhibit. Which subnet is redistributed from EIGRP to OSPF routing protocols?

- A. 10.2.2.0/24
- B. 10.1.4.0/26
- C. 10.1.2.0/24
- D. 10.2.3.0/26

Correct Answer: A

QUESTION 5

Which statement about MPLS LDP router ID is true?

- A. If not configured, the operational physical interface is chosen as the router ID even if a loopback is configured.
- B. The loopback with the highest IP address is selected as the router ID.
- C. The MPLS LDP router ID must match the IGP router ID.
- D. The force keyword changes the router ID to the specified address without causing any impact.

Correct Answer: B

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_ldp/configuration/12-4m/mp-ldp-12-4m-book.pdf



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