



350-401^{Q&As}

Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR) & CCIE Enterprise Infrastructure & CCIE Enterprise Wireless





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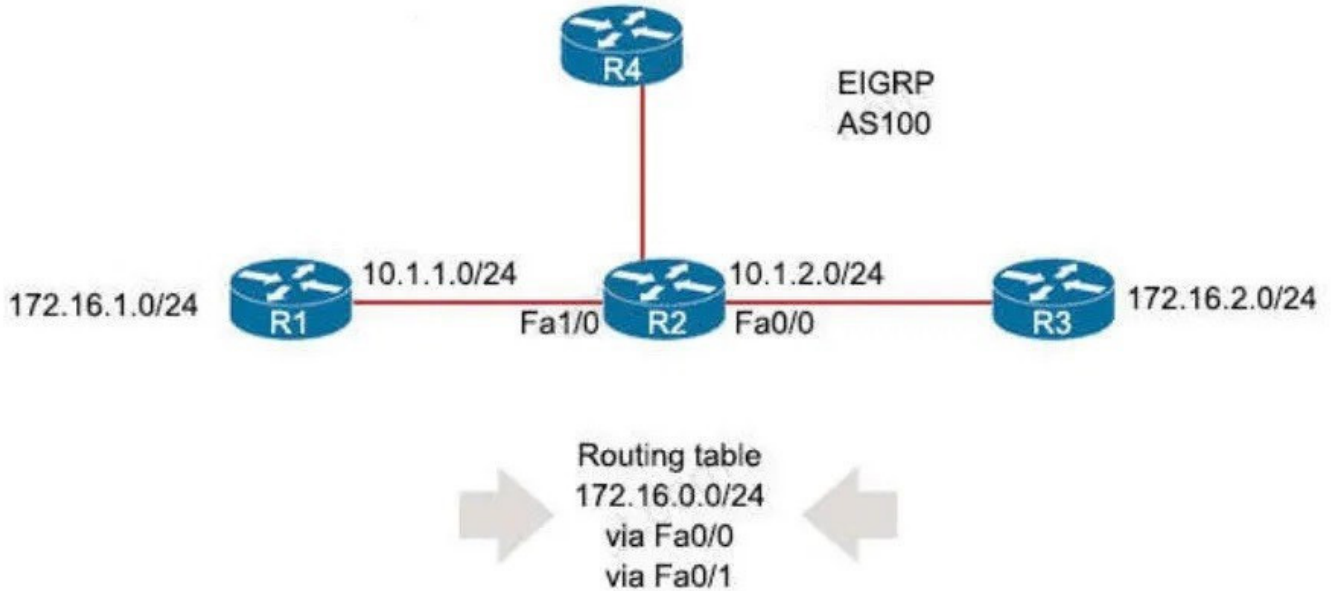
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QUESTION 1

Refer to the exhibit. R4 is experiencing packet drop when trying to reach 172.16.2.7 behind R2. Which action resolves the issue?



- A. Insert a /24 floating static route on R2 toward R3 with metric 254.
- B. Disable auto summarization on R2.
- C. Insert a /16 floating static route on R2 toward R3 with metric 254.
- D. Enable auto summarization on all three routers R1, R2, and R3.

Correct Answer: B

QUESTION 2

Refer to the exhibit.

```
Controller(config-wlan)#security pmf
```

You are configuring a controller that runs Cisco IOS XE by using the CLI. Which three configuration options are used for 802.11w Protected Management Frames? (Choose three.)

- A. mandatory
- B. association-comeback



C. SA teardown protection

D. saquery-retry-time

E. enable

F. comeback-time

Correct Answer: ABD

Reference: https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/5700/software/release/ios_xe_33/11rkw_DeploymentGuide/b_802point11rkw_deployment_guide_cisco_ios_xe_release33/b_802point11rkw_deployment_guide_cisco_ios_xe_release33_chapter_0100.pdf

QUESTION 3

Which OSPF networks types are compatible and allow communication through the two peering devices?

A. broadcast to nonbroadcast

B. point-to-multipoint to nonbroadcast

C. broadcast to point-to-point

D. point-to-multipoint to broadcast

Correct Answer: A

The following different OSPF types are compatible with each other:

+ Broadcast and Non-Broadcast (adjust hello/dead timers) + Point-to-Point and Point-to-Multipoint (adjust hello/dead timers) Broadcast and Non-Broadcast networks elect DR/BDR so they are compatible. Point-to-point/ multipoint do not elect DR/BDR so they are compatible.

Reference: <https://www.freeccnaworkbook.com/workbooks/ccna/configuring-ospf-network-types>

QUESTION 4

How does CEF switching differ from process switching on Cisco devices?

A. CEF switching saves memory by sorting adjacency tables in dedicate memory on the line cards, and process switching stores all tables in the main memory

B. CEF switching uses adjacency tables built by the CDP protocol, and process switching uses the routing table

C. CEF switching uses dedicated hardware processors, and process switching uses the main processor

D. CEF switching uses proprietary protocol based on IS-IS for MAC address lookup, and process switching uses in MAC address table

Correct Answer: B

Cisco Express Forwarding (CEF) switching is a proprietary form of scalable switching intended to tackle the problems



associated with demand caching. With CEF switching, the information which is conventionally stored in a route cache is split up over several data structures. The CEF code is able to maintain these data structures in the Gigabit Route Processor (GRP), and also in slave processors such as the line cards in the 12000 routers. The data structures that provide optimized lookup for efficient packet forwarding include:

1.

The Forwarding Information Base (FIB) table - CEF uses a FIB to make IP destination prefix-based switching decisions. The FIB is conceptually similar to a routing table or information base. It maintains a mirror image of the forwarding information contained in the IP routing table. When routing or topology changes occur in the network, the IP routing table is updated, and these changes are reflected in the FIB. The FIB maintains next-hop address information based on the information in the IP routing table.

2.

Because there is a one-to-one correlation between FIB entries and routing table entries, the FIB contains all known routes and eliminates the need for route cache maintenance that is associated with switching paths such as fast switching and optimum switching.

3.

Adjacency table - Nodes in the network are said to be adjacent if they can reach each other with a single hop across a link layer. In addition to the FIB, CEF uses adjacency tables to prepend Layer 2 addressing information. The adjacency table maintains Layer 2 next-hop addresses for all FIB entries.

CEF can be enabled in one of two modes:

1.

Central CEF mode - When CEF mode is enabled, the CEF FIB and adjacency tables reside on the route processor, and the route processor performs the express forwarding. You can use CEF mode when line cards are not available for CEF switching, or when you need to use features not compatible with distributed CEF switching.

2.

Distributed CEF (dCEF) mode - When dCEF is enabled, line cards maintain identical copies of the FIB and adjacency tables. The line cards can perform the express forwarding by themselves, relieving the main processor - Gigabit Route Processor (GRP) - of involvement in the switching operation. This is the only switching method available on the Cisco 12000 Series Router.

CEF uses an Inter-Process Communication (IPC) mechanism to ensure synchronization of FIBs and adjacency tables on the route processor and line cards.

For more information about CEF switching, see Cisco Express Forwarding (CEF) White Paper.

QUESTION 5

An engineer runs the code against an API of Cisco DMA Center, and the platform returns this output What does the response indicate?



```
import requests
```

```
import sys
```

```
import urllib3
```

```
urllib3.disable_warnings(urllib3.exceptions.InsecureRequestWarning)
```

```
def main():
```

```
    device_uri = "https://192.168.1.1/dna/system/api/v1/auth/token"
```

```
    http_result = requests.get(device_uri, auth=("root", "test398555469!"))
```

```
    print(http_result)
```

```
    if http_result.status_code != requests.codes.ok:
```

```
        print("Call failed! Review get_token() .")
```

```
        sys.exit()
```

```
    print(http_result.json()["Token"])
```

```
if __name__ == "__main__":
```

```
    sys.exit(main())
```

Output

```
$ python get_token.py
```

```
<Response [405]>
```

```
Call failed! Review get_token ().
```

- A. The authentication credentials are incorrect.
- B. The URI string is incorrect.
- C. The Cisco DNA Center API port is incorrect.
- D. The HTTP method is incorrect.

Correct Answer: D

Reference: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Status/405> [https://developer.mozilla.org/en-US/docs/Web/HTTP/Status Invalid authentication credentials would return code 401](https://developer.mozilla.org/en-US/docs/Web/HTTP/Status/Invalid_authentication_credentials_would_return_code_401)

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