



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

Implementing Cisco IP Routing

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### QUESTION 1

Which two statements about EVN are true?choose two

- A. It supports IPv6 traffic.
- B. It can support up to 16 VNs.
- C. It uses redistribution to share routes between VNs.
- D. It supports SSM only.
- E. A configuration can be based on an existing VRF configuration

Correct Answer: AE

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### QUESTION 2

which three configuration parameters can a DHCPV6 pool contain? (choose three.)

- A. domain search list
- B. router IP
- C. default gateway
- D. prefix delegation
- E. DNS servers
- F. subnet mask

Correct Answer: DEF

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### QUESTION 3

Refer to the following access list.

```
access-list 100 permit ip any any log
```

After applying the access list on a Cisco router, the network engineer notices that the router CPU utilization has risen to 99 percent. What is the reason for this?

- A. A packet that matches access-list with the "log" keyword is Cisco Express Forwarding switched
- B. A packet that matches access-list with the "log" keyword is fast switched.
- C. A packet that matches access-list with the "log" keyword is process switched.
- D. A large amount of IP traffic is being permitted on the router.



Correct Answer: C

ging-enabled access control lists (ACLs) provide insight into traffic as it traverses the network or is dropped by network devices. Unfortunately, ACL logging can be CPU intensive and can negatively affect other functions of the network device.

There are two primary factors that contribute to the CPU load increase from

ACL logging: process switching of packets that match log-enabled access control entries (ACEs) and the generation and transmission of log messages.

Reference: <http://www.cisco.com/web/about/security/intelligence/acl-logging.html#4>

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#### QUESTION 4

- A. baseline (network performance)
- B. understand (network performance baseline)
- C. Understand Quality results
- D. quantify (results)
- E. fine tune and optimize
- F. Update Understanding

Correct Answer: ABDE

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#### QUESTION 5

Refer to the exhibit.

```
R1#show ipv6 neighbor
```

IPv6 Address	Age	Link-layer Addr	State	Interface
FE80::21E:79FF:FEAB:3141	2	001e.79ab.3141	STALE	Gi0/1

Which statement about this neighbor of R1 is true?

- A. OSPFv3 adjacency has been lost, which causes the neighbor to be considered Stale.
- B. Aggregate global addresses are always used between IPv6 neighbors.
- C. OSPFv3 adjacency will not work between link-local addresses.
- D. R1 used ICMP to learn about this neighbor.

Correct Answer: D

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ICMP is a ping echo. IPv6 uses ICMP to learn about its neighbor.

#### QUESTION 6

Which two statements about IP access-lists are true? (Choose two)

- A. They support wildcard masks to limit the address bits to which entries are applied.
- B. Extended access lists must include port numbers
- C. IP access list without at least one deny statement permit all traffic by default
- D. They end with an implicit permit
- E. Entries are applied to traffic in the order in which they appear

Correct Answer: AE

#### QUESTION 7

Refer to the exhibit.

```
access-list 1 permit 1.0.0.0
0.255.255.255
access-list 2 permit 1.2.3.0
0.0.0.255
!
router rip
```

Which command only announces the 1.2.3.0/24 network out of FastEthernet 0/0?

- A. distribute list 1 out
- B. distribute list 1 out FastEthernet0/0
- C. distribute list 2 out
- D. distribute list 2 out FastEthernet0/0

Correct Answer: D

Access list 2 is more specific, allowing only 1.2.3.0/24, whereas access list 1 permits all 1.0.0.0/8 networks. This question also asks us to apply this distribute list only to the outbound direction of the fast Ethernet 0/0 interface, so the correct command is "distribute list 2 out FastEthernet0/0."

#### QUESTION 8



Which command denies the default route?

- A. ip prefix-list deny-route seq 5 deny 0.0.0.0/32
- B. ip prefix-list deny-route seq 5 deny 0.0.0.0/8
- C. ip prefix-list deny-route seq 5 deny 0 0 0.0/0
- D. ip prefix-list deny-route seq 5 deny 0.0.0.0/16

Correct Answer: C

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### QUESTION 9

An organization decides to implement NetFlow on its network to monitor the fluctuation of traffic that is disrupting core services. After reviewing the output of NetFlow, the network engineer is unable to see OUT traffic on the interfaces. What can you determine based on this information?

- A. Cisco Express Forwarding has not been configured globally.
- B. NetFlow output has been filtered by default.
- C. Flow Export version 9 is in use.
- D. The command ip flow-capture fragment-offset has been enabled.

Correct Answer: A

We came across a recent issue where a user setup a router for NetFlow export but was unable to see the OUT traffic for the interfaces in NetFlow Analyzer. Every NetFlow configuration aspect was checked and nothing incorrect was found.

That is when we noticed the ``no ip cef`` command on the router. CEF was enabled at the global level and within seconds, NetFlow Analyzer started showing OUT traffic for the interfaces. This is why this topic is about Cisco Express Forwarding.

What is switching?

A Router must make decisions about where to forward the packets passing through. This decision-making process is called "switching". Switching is what a router does when it makes the following decisions:

1. Whether to forward or not forward the packets after checking that the destination for the packet is reachable.

2. If the destination is reachable, what is the next hop of the router and which interface will the router use to get to that destination.

What is CEF?

CEF is one of the available switching options for Cisco routers. Based on the routing table, CEF creates its own table, called the Forwarding Information Base (FIB). The FIB is organized differently than the routing table and CEF uses the



FIB

to decide which interface to send traffic from. CEF offers the following benefits:

1.

Better performance than fast-switching (the default) and takes less CPU to perform the same task.

2.

When enabled, allows for advanced features like NBAR

3.

Overall, CEF can switch traffic faster than route-caching using fast-switching How to enable CEF?

CEF is disabled by default on all routers except the 7xxx series routers. Enabling and Disabling CEF is easy. To enable CEF, go into global configuration mode and enter the CEF command.

```
Router# config t
```

```
Router(config)# ip cef
```

```
Router(config)#
```

To disable CEF, simply use the ``no`` form of the command, ie. ``no ip cef``.

Why CEF Needed when enabling NetFlow ?

CEF is a prerequisite to enable NetFlow on the router interfaces. CEF decides through which interface traffic is exiting the router. Any NetFlow analyzer product will calculate the OUT traffic for an interface based on the Destination Interface

value present in the NetFlow packets exported from the router. If the CEF is disabled on the router, the NetFlow packets exported from the router will have "Destination interface" as "null" and this leads NetFlow Analyzer to show no OUT

traffic for the interfaces. Without enabling the CEF on the router, the NetFlow packets did not mark the destination interfaces and so NetFlow Analyzer was not able to show the OUT traffic for the interfaces

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## QUESTION 10

Which DHCP option provides a TFTP server that Cisco phones can use to download a configuration?

A. DHCP Option 66

B. DHCP Option 68

C. DHCP Option 82

D. DHCP Option 57

Correct Answer: A

---



### QUESTION 11

What is the default OSPF hello interval on a Frame Relay point-to-point network?

- A. 10
- B. 20
- C. 30
- D. 40

Correct Answer: A

remember that an NBMA network can be configured in these modes of operation with the ip ospf network command: Point-to-Point Point-to-Multipoint Broadcast NBMA Reference: <http://www.cisco.com/c/en/us/support/docs/ip/open-shortest-path-first-ospf/13693-22.html>

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### QUESTION 12

You want the devices on your network to summarize routes between OSPF areas. Which action must you take?

- A. Configure the area range command on the ABR.
- B. Configure the summary-address command on the ABR.
- C. Configure the area range command on the ASBR.
- D. Configure the summary-address command on the ASBR.

Correct Answer: D

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