# 640-878<sup>Q&As</sup>

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Building Cisco Service Provider Next-Generation Network

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**QUESTION 1**

Which Cisco IOS access list permits HTTP traffic that is sourced from host 10.1.129.100 port 3030 and that is destined to host 192.168.1.10?

A. access-list 101 permit tcp any eq 3030

B. access-list 101 permit tcp 10.1.128.0 0.0.1.255 eq 3030 192.168.1.0 0.0.0.15 eq www

C. access-list 101 permit tcp 10.1.129.0 0.0.0.255 eq www 192.168.1.10 0.0.0.0 eq www

D. access-list 101 permit tcp host 192.168.1.10 eq 80 10.1.0.0 0.0.255.255 eq 3030

E. access-list 101 permit tcp 192.168.1.10 0.0.0.0 eq 80 10.1.0.0 0.0.255.255

F. access-list 101 permit ip host 10.1.129.100 eq 3030 host 192.168.1.100 eq 80

Correct Answer: B

**QUESTION 2**

Table 19-2. MPLS LSR Terminology Reference

| LSR Type | Actions Performed by This LSR Type |
|---|---|
| Label Switch Router (LSR) | Any router that pushes labels onto packets, pops labels from packets, or simply forwards labeled packets. |
| Edge LSR (E LSR) | An LSR at the edge of the MPLS network, meaning that this router processes both labeled and unlabeled packets. |
| Ingress E-LSR | For a particular packet, the router that receives an unlabeled packet and then inserts a label stack in front of the IP header. |
| Egress E-LSR | For a particular packet, the router that receives a labeled packet and then removes all MPLS labels, forwarding an unlabeled packet. |
| ATM-LSR | An LSR that runs MPLS protocols in the control plane to set up ATM virtual circuits. Forwards labeled packets as ATM cells. |
| ATM E-LSR | An E-edge LSR that also performs the ATM Segmentation and Reassembly (SAR) function. |

## MPLS Forwarding Using the FIB and LFIB

To forward packets as shown in Figure 19-2, LSRs use both the CEF FIB and the MPLS LFIB when forwarding packets. Both the FIB and LFIB hold any necessary label information, as well as the outgoing interface and next-hop information.

The FIB and LFIB differ in that routers use one table to forward incoming unlabeled packets, and the other to forward incoming labeled packets, as follows:

- **FIB**—Used for incoming unlabeled packets. Cisco IOS matches the packet's destination IP address to the best prefix in the FIB and forwards the packet based on that entry.
- **LFIB**—Used for incoming labeled packets. Cisco IOS compares the label in the incoming packet to the LFIB's list of labels and forwards the packet based on that LFIB entry.

Figure 19-3 shows how the three LSRs in Figure 19-2 use their respective FIBs and LFIB. Note that Figure 19-3 just shows the FIB on the LSR that forwards the packet using the FIB and the LFIB on the two LSRs that use the LFIB, although all LSRs have both a FIB and an LFIB.



Figure 19-3 Usage of the CEF FIB and MPLS LFIB for Forwarding Packets

The figure shows the use of the FIB and LFIB, as follows:

- **PE1**—When the unlabeled packet arrives at PE1, PE1 uses the FIB. PE1 finds the FIB entry that matches the packet's destination address of 10.3.3.1—namely, the entry for 10.3.3.0/24 in this case. Among other things, the FIB entry includes the instructions to push the correct MPLS label in front of the packet.
- **P1**—Because P1 receives a labeled packet, P1 uses its LFIB, finding the label value of 22 in the LFIB, with that entry stating that P1 should swap the label value

Which three statements about access control lists on a Cisco IOS router are true? (Choose three)

A. The more specific ACL entries should be placed at the top of the ACL.

B. The generic ACL entries should be placed at the top of the ACL, to filter general traffic and reduce noise on the network.

C. ACLs always search for the most specific entry before taking any filtering action.

D. Router-generated packets cannot be filtered by the interface ACLs on the router.

E. Extended ACLs should be placed as close to the destination as possible.

F. There must be at least one permit statement in an ACL, or all traffic is denied.

Correct Answer: ADF

## QUESTION 3

Select and Place:

Drag and drop the troubleshooting issue on the left to the appropriate OSI layer on the right.

| | |
|---|---|
| high BER | Layer 7 |
| STP port in the "blocked" state | Layer 4 |
| BGP neighbor in the "idle" state | Layer 3 |
| FTP error | Layer 2 |
| TCP sync issue | Layer 1 |

Correct Answer:

Drag and drop the troubleshooting issue on the left to the appropriate OSI layer on the right.

| | |
|---|---|
| | FTP error |
| | TCP sync issue |
| | BGP neighbor in the "idle" state |
| | STP port in the "blocked" state |
| | high BER |

## QUESTION 4

What package provides the software for the route processor in the IOS XE Software?

A. RPIOS

B. ESPBase

C. RPControl

D. RPBase

E. SIP SPA

Correct Answer: D

**QUESTION 5**

What command will install the image needed on the Cisco IOS-XR if the SSH configuration options are unavailable?

A. install activate disk0:c12k-k9sec.pie-4.1.2

B. install activate disk0:c12k-diags.pie-4.1.2

C. install commit disk0:c12k-diags.pie-4.1.2

D. install ssh activate disk0:c12k-k9sec.pie-4.1.2

Correct Answer: A

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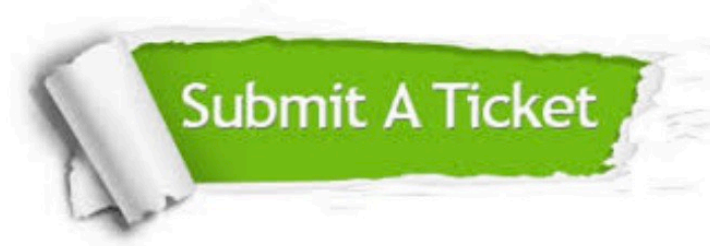
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100% Money Back Guarantee
365 Days Free Update
Instant Download After Purchase
24x7 Customer Support
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More than 800,000 Satisfied Customers Worldwide
Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

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