

## JN0-102

Number: 000-000  
Passing Score: 800  
Time Limit: 120 min  
File Version: 1.0



## JN0-102

**Juniper Networks Certified Internet Associate, Junos (JNCIA-Junos)**

**Version 11.2**

### **Sections**

1. Volume A
2. Volume B
3. Volume C
4. Volume D

**QUESTION 1**

The IP address 10.1.1.1 belongs to which class of IP address space?

- A. Class A
- B. Class B
- C. Class C
- D. Class D

**Correct Answer:** A

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 2**

For the interface ge-1/2/3.4, what does "ge" represent?

- A. SONET/SDH
- B. Gigabit Ethernet
- C. Aggregated Ethernet
- D. GRE

**Correct Answer:** B

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 3**

Which word starts a command to display the operational status of a Junos device?

- A. put
- B. set
- C. show
- D. get

**Correct Answer:** C

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 4**

Which command prompt indicates that you are in operational mode?

- A. user@router&
- B. user@router#
- C. user@router%
- D. user@router>

**Correct Answer: D**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 5**

What is the decimal equivalent of 00000100?

- A. 2
- B. 4
- C. 9
- D. 12

**Correct Answer: B**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 6**

What is a valid IPv6 address?

- A. 00:05:85:23:45:67
- B. 127.0.0.1
- C. 2001:0db8:3000:2215:0000:0000:aaaa:1111
- D. 49.0001.0192.0168.1001.00

**Correct Answer: C**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 7**

Which simplified IPv6 address is the same as the IP address 2001:0000:1000:0000:0000:cbff:0020:0001/64?

- A. 2001::1::cbff:2:0001/64
- B. 2001::1000::cbff:20:1/64
- C. 2001:0:1000::cbff:20:1/64
- D. 2001:0:1:0:0:cbff:2:1/64

**Correct Answer: C**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 8**

What are three characteristics of UDP? (Choose three.)

- A. UDP is faster than TCP.
- B. UDP operates at the Transport Layer.
- C. UDP is connection-oriented.
- D. UDP data is sent best-effort.
- E. UDP is more reliable than TCP.

**Correct Answer:** ABD

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 9**

Which layer in the OSI model is responsible for translating frames into bits?

- A. Application Layer
- B. Presentation Layer
- C. Data Link Layer
- D. Physical Layer

**Correct Answer:** C

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 10**

Which layer in the TCP/IP model is responsible for delivering packets to their destination?

- A. Application Layer
- B. Transport Layer
- C. Internet Layer
- D. Network Access Layer

**Correct Answer:** C

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 11**

Why is IPv6 packet processing more effective than IPv4 packet processing?

- A. fixed header size
- B. smaller header size
- C. fewer header fields
- D. variable header size

**Correct Answer:** A

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 12**

A user opens a webpage that requires the transmission of packets from the Web server to the client's browser. The packets transmitted from the Web server to the client exceed the smallest MTU value on the communications path.

Which two protocol functions allow this type of communication? (Choose two.)

- A. packet segmentation
- B. serialized checking
- C. packet sequencing
- D. parallel checking

**Correct Answer: AC**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 13**

Which two statements are true about TCP communication? (Choose two.)

- A. The receiver acknowledges the final packet in each communications stream.
- B. The receiver adds sequencing numbers to the packets received.
- C. The sender adds sequencing numbers to the packets it sends.
- D. The receiver acknowledges each packet it receives from the sending device.

**Correct Answer: CD**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 14**

Which two statements are true about optical networks? (Choose two.)

- A. SONET and SDH both use time-division multiplexing.
- B. An optical transport network system uses time-division multiplexing.
- C. SONET and SDH both use wavelength-division multiplexing.
- D. An optical transport network system uses wavelength-division multiplexing.

**Correct Answer: AD**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

At which layer of the OSI model does error checking occur with IPv6?

- A. Layer 2
- B. Layer 3
- C. Layer 4
- D. Layer 7

**Correct Answer:** C

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

Which statement is correct regarding IPv6 addresses?

- A. An IPv6 address consists of 128 bits separated into eight 16-bit hexadecimal sections.
- B. An IPv6 address consists of 64 bits separated into four 16-bit hexadecimal sections.
- C. An IPv6 address consists of 128 bits separated into sixteen 8-bit hexadecimal sections.
- D. An IPv6 address consists of 64 bits separated into eight 8-bit hexadecimal sections.

**Correct Answer:** A

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

Which two statements about MPLS label-switched paths (LSPs) are true? (Choose two.)

- A. LSPs are bidirectional.
- B. LSPs are unidirectional.
- C. LSPs must follow the IGP's shortest path.
- D. LSPs can follow paths other than the IGP's shortest path.

**Correct Answer:** BD

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

What are two ways that packet fragmentation is handled differently between IPv6 and IPv4? (Choose two.)

- A. End hosts determine the path MTU for IPv6.
- B. End hosts determine the path MTU for IPv4.
- C. Packet fragmentation occurs at intermediate nodes for IPv4.
- D. Packet fragmentation occurs at intermediate nodes for IPv6.

**Correct Answer:** AC

**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 19**

-- Exhibit --

```
user@router> show route protocol static
```

inet.0: 15 destinations, 15 routes (15 active, 0 holddown, 0 hidden)

+ = Active Route, - = Last Active, \* = Both

```
99.0.0.0/17      *[Static/5] 00:00:11
>to 10.1.1.2 via ge-0/0/1.0
99.0.0.0/19      *[Static/5] 00:00:11
>to 10.1.2.2 via ge-0/0/2.0
99.0.0.0/24      *[Static/5] 00:00:11
>to 10.1.3.2 via ge-0/0/3.0
99.0.0.0/26      *[Static/5] 00:00:11
>to 10.1.4.2 via ge-0/0/4.0
-- Exhibit --
```

In the exhibit, there are four static routes that route traffic through different interfaces.

Which interface does the router use if traffic is sent to the 99.0.0.1 destination?

- A. ge-0/0/1
- B. ge-0/0/2
- C. ge-0/0/3
- D. ge-0/0/4

**Correct Answer: D**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

In dotted decimal notation, what is the equivalent of 11010101 01000010 01111111 11000010?

- A. 213.66.127.194
- B. 214.66.128.195
- C. 212.64.143.194
- D. 213.66.111.194

**Correct Answer: A**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

What is the binary equivalent of 242.168.94.124?

- A. 11110011 10101000 01011110 01111100
- B. 11110010 10101010 01011110 01111100
- C. 11110010 10101000 01011110 01111100
- D. 11110010 10101000 01010110 01111100

**Correct Answer: C**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

What is the last usable IP address in the 218.6.0.0/17 network?

- A. 218.6.125.254
- B. 218.6.126.254
- C. 218.6.127.254
- D. 218.6.128.254

**Correct Answer: C**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

What is the network address for the 10.13.147.100/19 host?

- A. 10.13.128.0
- B. 10.13.147.0
- C. 10.13.0.0
- D. 10.13.100.0

**Correct Answer: A**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

Which two prefixes would summarize the networks shown below? (Choose two.)

192.168.1.0/24  
192.168.2.0/24  
192.168.3.0/24

- A. 192.168.0.0/23
- B. 192.168.0.0/22



- C. 192.168.0.0/24
- D. 192.168.0.0/21

**Correct Answer:** BD

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 25**

How many host addresses are available in the 172.27.0.0/28 network?

- A. 6
- B. 14
- C. 28
- D. 30

**Correct Answer:** B

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 26**

What are three benefits of using IPv6? (Choose three.)

- A. IPv6 supports a greater level of security by integrating features that were optional add-ons in IPv4.
- B. IPv6 reduces administrative overhead using stateless address autoconfiguration for hosts.
- C. IPv6 eliminates the need for private to public NAT using a large address pool.
- D. IPv6 provides backward compatibility with IPv4 using the Next Header field.
- E. IPv6 represents large IP addresses using dotted decimal notation.

**Correct Answer:** ABC

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 27**

Which statement is correct about the forwarding table?

- A. The forwarding table is stored only on the PFE.
- B. The forwarding table contains all known routes.
- C. The forwarding table is stored on both the RE and PFE.
- D. The forwarding table is stored only on the RE.

**Correct Answer:** C

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

Which statement describes exception traffic?

- A. Exception traffic must be sent to the PFE for processing.
- B. Exception traffic enters one ingress port and is sent out multiple egress ports.
- C. Exception traffic is rate-limited on the internal link to prevent DoS attacks.
- D. Exception traffic is processed after forwarding traffic when congestion exists.

**Correct Answer:** C

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

What are two benefits of the modular design of the Junos OS? (Choose two.)

- A. Each module uses application-specific integrated circuits (ASICs).
- B. Each module runs in its own protected memory space.
- C. Each module can be individually restarted.
- D. Each module is supported across all Junos platforms.

**Correct Answer:** BC

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

Which statement describes the PFE?

- A. The PFE controls the RE by providing Layer 2 and Layer 3 forwarding tables.
- B. The PFE implements advanced services such as policing, stateless firewall filtering, and class of service.
- C. The PFE sends traffic to the RE for systematic packet forwarding.
- D. The PFE receives hardware and environmental status messages from the RE.

**Correct Answer:** B

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

Which process is responsible for the routing protocols on a Junos device?

- A. rpd
- B. mgd
- C. dcd
- D. chassisd

**Correct Answer:** A  
**Section:** Volume A  
**Explanation**

**Explanation/Reference:**

**QUESTION 32**

Which process is responsible for the configuration of the router and all user commands on a Junos device?

- A. rpd
- B. chassisd
- C. dcd
- D. mgd

**Correct Answer:** D  
**Section:** Volume A  
**Explanation**

**Explanation/Reference:**

**QUESTION 33**

How does the PFE handle unicast transit traffic destined for an existing forwarding table entry?

- A. It sends the traffic through one egress port toward its destination.
- B. It sends the traffic through multiple egress ports to all available receivers.
- C. It sends the traffic through an internal link to the RE.
- D. It sends the traffic to the local system for further processing.

**Correct Answer:** A  
**Section:** Volume A  
**Explanation**

**Explanation/Reference:**

**QUESTION 34**

Which two design goals describe the Junos OS design? (Choose two.)

- A. clean separation of security and routing policies
- B. clean separation of control and forwarding planes
- C. modularization of multiple software processes
- D. a single hardware platform for all software applications

**Correct Answer:** BC  
**Section:** Volume A  
**Explanation**

**Explanation/Reference:**

**QUESTION 35**

Which two Junos platforms provide stateful firewall functionality? (Choose two.)

- A. MX Series
- B. EX Series
- C. SRX Series
- D. QFX Series

**Correct Answer:** AC

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 36**

What are two examples of RE exception traffic? (Choose two.)

- A. BGP updates that travel through the local router and are destined for a remote router.
- B. OSPF hello packets that are sent from a remote router and are destined for the local router.
- C. Telnet traffic that is sent from a remote host and is destined for the local router.
- D. Telnet traffic that travels through the local router and is destined for a remote end host.

**Correct Answer:** BC

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 37**

In the Junos OS, what handles transit traffic?

- A. Transit traffic is handled by the RE only.
- B. Transit traffic is handled by the PFE only.
- C. Transit traffic is handled by both the RE and the PFE.
- D. Transit traffic is not handled by the RE or the PFE.

**Correct Answer:** B

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 38**

Which statement describes transit traffic?

- A. Traffic addressed to the chassis that requires some form of special handling by the RE before it can be forwarded out an egress port.
- B. Traffic that enters an ingress port, is compared against the forwarding table, and is forwarded out an egress port.
- C. Any traffic that requires the generation of an ICMP message.
- D. Traffic that requires some form of special attention and does not pass through the device.

**Correct Answer:** B

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 39**

What is the central processing component of the forwarding plane?

- A. PFE
- B. RE
- C. Junos OS
- D. forwarding table

**Correct Answer: A**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

Which statement is correct regarding the Junos OS?

- A. The same Junos OS image is used on all Junos devices.
- B. The Junos OS provides separation between the control and forwarding planes.
- C. Each Junos OS image is based on model-specific source code.
- D. The Junos OS creates a secondary instance of the kernel to ensure redundancy.

**Correct Answer: B**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

What are two functions of the RE? (Choose two).

- A. to maintain routing tables
- B. to forward traffic toward its destination
- C. to manage the PFE
- D. to implement various services such as policing, stateless firewall filtering, and class of service

**Correct Answer: AC**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

Which statement is correct regarding exception traffic processing?

- A. Exception traffic is only handled by the PFE.
- B. Exception traffic is rate-limited across the internal link to protect the RE.
- C. Exception traffic is not prioritized during times of congestion.
- D. Exception traffic is forwarded based on forwarding table entries.

**Correct Answer: B**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 43**

When using keyboard shortcuts, which single keystroke combination allows users to erase the entire current command?

- A. Ctrl + a
- B. Ctrl + e
- C. Ctrl + u
- D. Ctrl + w

**Correct Answer: C**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 44**

When using keyboard shortcuts, which keystroke combination allows users to erase a single word to the left of the cursor?

- A. Ctrl + a
- B. Ctrl + e
- C. Ctrl + u
- D. Ctrl + w

**Correct Answer: D**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 45**

What must you type to enter operational mode from the root@% command prompt?

- A. exit
- B. configure
- C. edit
- D. cli

**Correct Answer: D**

**Section: Volume A**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 46**

Which two commands would you use to discard a candidate configuration? (Choose two.)

- A. rollback
- B. delete
- C. delete 0
- D. rollback 0

**Correct Answer:** AD

**Section:** Volume A

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 47**

Which two statements are true about the configure exclusive command? (Choose two.)

- A. It allows users to retain all uncommitted changes when exiting exclusive configuration mode.
- B. It allows multiple users to edit private copies of the configuration concurrently.
- C. It causes the loss of all uncommitted changes when exiting exclusive configuration mode.
- D. It excludes other users from editing the configuration.

**Correct Answer:** CD

**Section:** Volume A

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 48**

Which command will display the active configuration?

- A. user@router> show configuration
- B. user@router# show
- C. user@router> show system configuration
- D. user@router> show system commit

**Correct Answer:** A

**Section:** Volume A

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 49**

Which three commands will cause a logical interface to go administratively down after being committed? (Choose three.)

- A. shutdown
- B. deactivate
- C. disable
- D. down
- E. delete

**Correct Answer:** BCE

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 50**

Which command returns a list of commands in which a given keyword is used throughout the Junos hierarchies?

- A. help topic
- B. help reference
- C. help apropos
- D. help tip

**Correct Answer:** C

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 51**

Which three statements are true regarding the candidate configuration? (Choose three.)

- A. The candidate configuration is a temporary configuration that might become the active configuration.
- B. A candidate configuration is initially populated with the configuration currently active on the system.
- C. Changes to the candidate configuration take effect immediately.
- D. The candidate configuration becomes the active configuration after a system reboot.
- E. The configure private command allows concurrent editing of a candidate configuration by multiple users.

**Correct Answer:** ABE

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 52**

-- Exhibit --

[edit]

user@router# show | compare

[edit protocols ospf area 0.0.0.0]

- interface ge-0/0/0.0 {

-     disable;

- }

[edit protocols ospf]



```
area 0.0.0.0 { ... }
+ area 0.0.0.1 {
+   interface ge-0/0/0.0;
+ }
-- Exhibit --
```

Referring to the exhibit, what are two differences between the active and candidate configurations? (Choose two.)

- A. The ge-0/0/0 interface was added to the candidate configuration.
- B. Area 0 was added to the active configuration.
- C. Area 1 was added to the candidate configuration.
- D. The ge-0/0/0 interface was added to the active configuration.

**Correct Answer:** AC

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### QUESTION 53

Which mode is used to allow only a single person to edit a configuration?

- A. configure batch
- B. configure private
- C. configure exclusive
- D. configure dynamic

**Correct Answer:** C

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### QUESTION 54

Which information would you find using the CLI help function? (Choose two.)

- A. message of the day
- B. tip of the day
- C. explanation for specific system log error messages
- D. explanation for specific traceoptions log messages

**Correct Answer:** BC

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### QUESTION 55

Which two statements are true of login classes? (Choose two.)

- A. Users can be members of multiple login classes.
- B. Login classes define authorization parameters for a user.
- C. There are five system-defined login classes.
- D. Login class permission flags can be overridden for certain commands.

**Correct Answer:** BD

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 56**

Which two statements are true regarding rescue configurations? (Choose two.)

- A. Once saved, a rescue configuration is loaded using the rollback 0 command.
- B. The rescue configuration must contain the minimal elements necessary to restore network connectivity.
- C. A minimal rescue configuration is defined by default.
- D. A rescue configuration must include a root password.

**Correct Answer:** BD

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 57**

-- Exhibit --  
Amnesiac (ttyu0)

login:  
-- Exhibit --

Which statement is correct about the information shown in the exhibit?

- A. The factory-default configuration is running on the device.
- B. The Junos OS was corrupted and did not boot correctly.
- C. The device was recently upgraded to a newer version of the Junos OS.
- D. The device's memory has been corrupted and no file system is present after a reboot.

**Correct Answer:** A

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 58**

Which two statements are true regarding the use of NTP clock synchronization? (Choose two.)

- A. The Junos OS supports client, server, and symmetric modes of NTP operation.
- B. Synchronized time on all network devices makes log messages more useful for troubleshooting.

- C. Authentication methods are not supported.
- D. The Junos OS must be used as the primary time reference.

**Correct Answer:** AB

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 59**

You are asked to change the cable on interface ge-2/1/3.

Which statement is correct?

- A. The cable is found on FPC 1, slot 3, and port 2.
- B. The cable is found on slot 1, port 2, and FPC 3.
- C. The cable is found on port 3, FPC 2, and slot 1.
- D. The cable is found on FPC 1, slot 2, and port 3.

**Correct Answer:** C

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 60**

You are asked to change the cable on interface fe-4/2/3.

Which statement is correct?

- A. The cable is found on port 4, FPC 2, and slot 3.
- B. The cable is found on slot 2, port 3, and FPC 4.
- C. The cable is found on FPC 4, slot 3, and port 2.
- D. The cable is found on slot 2, FPC 3, and port 4.

**Correct Answer:** B

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 61**

You are asked to change the cable on interface ge-0/2/1.

Which statement is correct?

- A. The cable is found on slot 2, port 0, and FPC 1.
- B. The cable is found on FPC 0, slot 1, and port 2.
- C. The cable is found on port 1, slot 0, and FPC 2.
- D. The cable is found on slot 2, port 1, and FPC 0.

**Correct Answer: D**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 62**

```
-- Exhibit --
user@router> show configuration
groups {
ge-int {
interfaces {
<ge-*> {
unit 0 {
familyinet {
address 10.10.12.1/24;
}
}
}
}
}
}
...
interfaces {
ge-0/0/1 {
unit 0;
}
}
}

-- Exhibit --
```

Referring to the exhibit, which two actions would you take to only apply the 10.10.12.1/24 address to the ge-0/0/1.0 interface?

- A. Apply the ge-int group to the configuration at the [edit] hierarchy.
- B. Apply the ge-int group to the configuration at the [edit interfaces ge-0/0/1] hierarchy.
- C. Apply the ge-int group to the configuration at the [edit interfaces ge-0/0/1 unit 0] hierarchy.
- D. Apply the ge-int group to the configuration at the [edit interfaces] hierarchy.

**Correct Answer: BC**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 63**

Which interface type connects the control and forwarding planes on an MX Series device?

- A. fxp1
- B. fxp0
- C. me0
- D. ae1

**Correct Answer: A**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 64**

Which command is used to restore a Junos device to its default state?

- A. load factory-default
- B. load override factory-default
- C. load replace default
- D. load set default

**Correct Answer: A**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 65**

```
-- Exhibit --
{master:0}[edit interfaces]
user@switch# show
me0 {
  disable;
  unit 0 {
    family inet {
      address 10.1.1.10/24;
    }
  }
}
```

-- Exhibit --

Administrators report that they are unable to access the management interface of the EX Series device shown in the exhibit.

Which command will resolve this problem?

- A. delete me0 disable
- B. activate me0
- C. set me0 unit 0 enable
- D. deactivate me0

**Correct Answer: A**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 66**

Which statement is true about logical units?

- A. Logical units are similar to VLANs used by other vendors.
- B. A logical unit is required for transit interfaces.
- C. Frame Relay encapsulation supports one logical unit.
- D. Link speed and duplex are configured in the logical unit properties.

**Correct Answer:** B

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 67**

-- Exhibit --

```
[edit system syslog]
user@router# show
host 152.170.10.10 {
  any warning;
}
file changes {
  change-log info;
}
-- Exhibit --
```

Referring to the exhibit, which two statements are true? (Choose two.)

- A. Any warning message will be sent to the 152.170.10.10 host.
- B. A warning message will be logged when the 152.170.10.10 host logs in.
- C. Changes to the device's internal temperatures will be logged.
- D. Changes to the configuration will be logged.

**Correct Answer:** AD

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 68**

Which command is used to load the rescue configuration?

- A. load override rescue
- B. rollback rescue
- C. load replace rescue-configuration
- D. rollback 49

**Correct Answer:** B

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 69**

Which two external authentication servers are supported for administrative access to a Junos device? (Choose two.)

- A. RADIUS
- B. LDAP
- C. ACE
- D. TACACS+

**Correct Answer:** AD

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 70**

```
-- Exhibit --  
user@router> restart  
      ^  
unknown command.  
-- Exhibit --
```

You are investigating routing problems on a device running the Junos OS. You receive the error shown in the exhibit when you attempt to restart the routing process.

Which statement describes the problem?

- A. You have typed an invalid command.
- B. You must be in configuration mode to restart the routing process.
- C. You do not have permission to restart the routing process.
- D. You must wait until close of business to restart the routing process, based on user-defined policy.

**Correct Answer:** C

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 71**

At which command prompt would you issue the set date <date> command?

- A. [edit chassis]  
user@router#
- B. [edit]  
user@router#
- C. [edit system]  
user@router#
- D. user@router>

**Correct Answer: D**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 72**

You must apply the family inet configuration parameter only to Gigabit Ethernet interfaces that are in FPC 2.

Which output applies to this configuration?

A. [edit groups]  
user@router# show  
ge-int {  
  interfaces {  
    <ge-\*> {  
      unit 0 {  
        family inet;  
      }  
    }  
  }  
}

B. [edit groups]  
user@router# show  
ge-int {  
  interfaces {  
    <\*> {  
      unit 0 {  
        family inet;  
      }  
    }  
  }  
}

C. [edit groups]  
user@router# show  
ge-int {  
  interfaces {  
    <\*-2/\*/\*> {  
      unit 0 {  
        family inet;  
      }  
    }  
  }  
}

D. [edit groups]  
user@router# show  
ge-int {  
  interfaces {  
    <ge-2/\*/\*> {  
      unit 0 {  
        family inet;  
      }  
    }  
  }  
}



**Correct Answer: D**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 73**

```
-- Exhibit --
[edit interfaces ge-0/0/1]
user@router# show
unit 100 {
  vlan-id 100;
  family inet {
    address 10.1.1.1 /24;
  }
}

[edit interfaces ge-0/0/1]
user@router# commit check
[edit interfaces ge-0/0/1]
'unit 100'
Only unit 0 is valid for this encapsulation
error: configuration check-out failed
-- Exhibit --
```

Referring to the exhibit, you are unable to commit the configuration for the ge-0/0/1 interface.

What must you do to commit the configuration?

- A. You must set the vlan-tagging parameter under the [edit interfaces ge-0/0/1] hierarchy.
- B. You must use the rename command to change unit 100 to unit 0.
- C. You must set the encapsulation flexible-ethernet-services parameter under the [edit interfaces ge-0/0/1] hierarchy.
- D. You must set the encapsulation vlan-ccc parameter under the [edit interfaces ge-0/0/1 unit 100] hierarchy.

**Correct Answer: A**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 74**

You are asked to configure the configuration archival feature on your Junos devices.

Which two transfer methods are available? (Choose two.)

- A. TFTP
- B. FTP
- C. SCP
- D. SFTP

**Correct Answer: BC**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 75**

-- Exhibit --

```
user@router> show system alarms
1 alarms currently active
Alarm time      Class  Description
2013-09-14 23:54:01 UTC  Minor  Rescue configuration is not set
-- Exhibit --
```

Which command will resolve the problem shown in the exhibit?

- A. user@router> request system configuration rescue save
- B. user@router# request system configuration rescue save
- C. user@router> file copy current /config/rescue.conf
- D. user@router# file copy current /config/rescue.conf

**Correct Answer: A**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 76**

Which command displays only the interfaces that are operationally and administratively up?

- A. show interfaces terse | match up
- B. show interfaces terse | match down
- C. show interfaces terse | except up
- D. show interfaces terse | except down

**Correct Answer: D**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 77**

To which directory does the Junos OS write traceoptions files?

- A. /var/tmp/
- B. /var/
- C. /var/log/
- D. /var/home/<username>/

**Correct Answer: C**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 78**

Which command gracefully shuts down the Junos OS?

- A. request system reboot
- B. request system logout
- C. request system halt
- D. restart gracefully

**Correct Answer: C**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 79**

Which action does the ping 172.18.1.1 size 5 command perform?

- A. It sends only five ping requests to the 172.18.1.1 destination.
- B. It sends a continuous ping with a packet length of five bytes to the 172.18.1.1 destination.
- C. It sends five rapid ping requests to the 172.18.1.1 destination.
- D. It sends a continuous rapid ping with a packet length of five bytes to the 172.18.1.1 destination.

**Correct Answer: B**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 80**

Which command displays the current temperature of a Junos device's components?

- A. show chassis temperature-thresholds
- B. show chassis environment
- C. show chassis hardware
- D. show chassis alarms

**Correct Answer: B**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 81**

Which command would you use to view interface usage details in real time?

- A. show interfaces terse
- B. show interfaces extensive
- C. monitor interface traffic
- D. monitor traffic interface

**Correct Answer: C**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 82**

What happens when you issue the ping 172.19.102.2 count 5 command?

- A. ICMP echo requests are sent to 172.19.102.2 in five-millisecond intervals.
- B. ICMP echo requests are sent to 172.19.102.2 until five packets are dropped.
- C. ICMP echo requests are sent to 172.19.102.2 five times.
- D. ICMP echo requests are sent continuously to 172.19.102.2 for five seconds.

**Correct Answer: C**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 83**

You are asked to configure real-time performance monitoring (RPM) between two Junos devices to track traffic in your network.

Which two application traffic types can you track? (Choose two.)

- A. ICMP
- B. SNMP
- C. TCP
- D. HTTPS

**Correct Answer: AC**  
**Section: Volume A**  
**Explanation**

**Explanation/Reference:**

**QUESTION 84**

You are troubleshooting a routing issue and need to check the hop-by-hop path to the 10.10.10.10 destination.

Which three commands would display the path? (Choose three.)

- A. user@router# traceroute 10.10.10.10
- B. user@router> ping record-route 10.10.10.10
- C. user@router>traceroute 10.10.10.10
- D. user@router# run traceroute 10.10.10.10
- E. user@router# ping record-route 10.10.10.10

**Correct Answer: BCD**  
**Section: Volume A**

**Explanation****Explanation/Reference:****QUESTION 85**

You are asked to free up disk space so you can update your version of the Junos OS.

Which two commands display the files that will be removed? (Choose two.)

- A. user@router> request system storage cleanup
- B. user@router> show system storage
- C. user@router> request system storage cleanup dry-run
- D. user@router> show system storage detail

**Correct Answer:** AC

**Section:** Volume A

**Explanation****Explanation/Reference:****QUESTION 86**

Which two commands are used during the password recovery process? (Choose two.)

- A. clear system login
- B. boot -s
- C. recovery
- D. delete system root-authentication

**Correct Answer:** BC

**Section:** Volume A

**Explanation****Explanation/Reference:****QUESTION 87**

You receive an alarm that your Junos device is experiencing problems regarding temperature.

Which two commands would you use to investigate this problem? (Choose two.)

- A. show chassis hardware
- B. show chassis temperature-thresholds
- C. show chassis pic fpc-slot <value> pic-slot <value>
- D. show chassis environment

**Correct Answer:** BD

**Section:** Volume A

**Explanation****Explanation/Reference:****QUESTION 88**

```
-- Exhibit --
[edit interfaces ge-0/0/6]
user@router# show
unit 0 {
  family inet {
    address 172.16.10.100/24;
    address 172.16.10.101/24;
  }
}
-- Exhibit --
```

You have two IP addresses configured on the ge-0/0/6 interface, as shown in the exhibit. You want to select the 172.16.10.101 address as the source address for packets sent from this interface to hosts on a remote subnet.

Which parameter would you add to the 172.16.10.101 address to complete this task?

- A. preferred
- B. broadcast
- C. primary
- D. arp 172.16.10.101

**Correct Answer: A**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 89**

Which routing instance type is used to facilitate filter-based forwarding?

- A. VRF
- B. FBF
- C. forwarding
- D. no-forwarding

**Correct Answer: C**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 90**

Which two statements are true about static routes in the Junos OS? (Choose two.)

- A. Static routes are defined at the [edit routing-instances] hierarchy.
- B. Static routes must have a next hop defined.
- C. Static routes remain in the routing table until you remove them or until they become inactive.
- D. Static routes are learned by neighboring devices and added to their routing tables.

**Correct Answer: BC**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 91**

Which configuration parameter on a Junos device alters the default next-hop resolution behavior of a static route?

- A. no-readvertise
- B. resolve
- C. preference
- D. passive

**Correct Answer: B**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 92**

Which two statements are true regarding route preference? (Choose two.)

- A. Lower preference values are more preferred than higher preference values.
- B. You can modify the default preference values for any of the routing information sources.
- C. By default, a static route is more preferred than a RIP route.
- D. A static route is always preferred over a direct route.

**Correct Answer: AC**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 93**

Which two statements are true regarding routing tables? (Choose two.)

- A. The routing table is populated by the forwarding table.
- B. Devices running the Junos OS can accommodate multiple routing tables.
- C. Information learned from routing protocols is stored in the routing table.
- D. The primary routing table for IPv4 unicast routes is inet.4.

**Correct Answer: BC**

**Section: Volume A**

**Explanation**

**Explanation/Reference:**

**QUESTION 94**

Which two statements are correct when you use the reject parameter as the next-hop value for a static route? (Choose two.)

- A. The packet is dropped and the packet's source is marked with the no-readvertise parameter.
- B. The system sends the packet back to the source.
- C. The packet is dropped from the network.
- D. The system sends an ICMP message back to the source of the packet.

**Correct Answer:** CD

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 95**

Which routing table stores IPv4 unicast routes and is used by multicast routing protocols to prevent loops?

- A. inet.0
- B. inet.1
- C. inet.2
- D. inet.3

**Correct Answer:** C

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 96**

Which source of routing information is preferred by default?

- A. OSPF internal
- B. OSPF external
- C. IS-IS Level 1
- D. IS-IS Level 2

**Correct Answer:** A

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### **QUESTION 97**

What are two routing requirements for a device to communicate with another device? (Choose two.)

- A. end-to-end communications path
- B. hosts on the same Layer 2 broadcast domain
- C. hosts on the same Layer 3 broadcast domain
- D. routing information on participating Layer 3 devices

**Correct Answer:** AD

**Section:** Volume A

**Explanation**



**Explanation/Reference:**

**QUESTION 98**

-- Exhibit --

inet.0: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)

+ = Active Route, - = Last Active, \* = Both

```
172.23.10.0/24    *[Direct/0] 21:59:56
>via ge-0/0/6.0
172.23.10.100/32  *[Local/0] 22:00:10
                  Local via ge-0/0/6.0
172.23.12.0/24    *[Static/5] 00:01:36
>to 172.23.10.1 via ge-0/0/6.0
172.23.15.0/24    *[Static/5] 00:01:36
>to 172.23.10.1 via ge-0/0/6.0
-- Exhibit --
```

Users are unable to access resources in the 172.23.14.0/24 subnet.

Referring to the exhibit, which two actions would solve this problem? (Choose two.)

- A. Configure a separate routing instance.
- B. Configure a default static route.
- C. Configure a static route to 172.23.14.0/24.
- D. Configure the existing routes to resolve the indirect next hop.

**Correct Answer:** BC

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 99**

What are three types of routing instances? (Choose three.)

- A. VPN
- B. virtual-router
- C. policy
- D. VRF
- E. forwarding

**Correct Answer:** BDE

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

**QUESTION 100**

Which two statements describe the forwarding table in the Junos OS? (Choose two.)

- A. The forwarding table contains all known routes.
- B. The forwarding table stores a subset of information from the routing table.

- C. Junos devices use the forwarding table to compare incoming packets against existing entries to determine the next hop.
- D. If multiple matches exist, the forwarding table uses the least-specific entry to forward packets toward the destination.

**Correct Answer:** BC

**Section:** Volume A

**Explanation**

**Explanation/Reference:**

#### QUESTION 101

-- Exhibit --

[edit routing-options]

user@router# show

static {

route 0.0.0.0/0 {

next-hop 10.1.1.1;

qualified-next-hop 10.1.1.254 {

preference 4;

}

}

}

-- Exhibit --

Assuming both paths shown in the exhibit are available, which statement is correct?

- A. Traffic matching the default route will use 10.1.1.1 as the next hop.
- B. Traffic matching the default route will use 10.1.1.254 as the next hop.
- C. Traffic matching the default route will be load-balanced per packet across both next hops.
- D. Traffic matching the default route will be load-balanced per flow across both next hops.

**Correct Answer:** B

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### QUESTION 102

Which command will silently drop a matching packet?

- A. set routing-options static route 10.1.1.1/32 no-retain
- B. set routing-options static route 10.1.1.1/32 discard
- C. set routing-options static route 10.1.1.1/32 reject
- D. set routing-options static route 10.1.1.1/32 passive

**Correct Answer:** B

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 103**

Which command will drop a matching packet and send out a notification message?

- A. set routing-options static route 10.1.1.1/32 no-retain
- B. set routing-options static route 10.1.1.1/32 discard
- C. set routing-options static route 10.1.1.1/32 reject
- D. set routing-options static route 10.1.1.1/32 no-install

**Correct Answer:** C

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 104**

Which command will show the best paths that are installed in the PFE?

- A. show route
- B. show route active-path
- C. show route private
- D. show route forwarding-table

**Correct Answer:** D

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 105**

Which command displays the egress interfaces selected on the PFE for destination prefixes?

- A. show route forwarding-table
- B. show route table
- C. show route table extensive
- D. show pfevdd

**Correct Answer:** A

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 106**

Which route filter match type only matches prefixes greater than the defined prefix?

- A. exact
- B. upto
- C. longer
- D. orlonger

**Correct Answer:** C

**Section: Volume B**  
**Explanation**

**Explanation/Reference:**

**QUESTION 107**

In which hierarchy are routing policies defined?

- A. [edit policy-options]
- B. [edit routing-options]
- C. [edit forwarding-options]
- D. [edit protocols]

**Correct Answer: A**  
**Section: Volume B**  
**Explanation**

**Explanation/Reference:**

**QUESTION 108**

What are two default routing policies on Junos devices? (Choose two.)

- A. The BGP import policy accepts all BGP routes.
- B. The BGP export policy rejects all active BGP routes.
- C. The OSPF import policy accepts all OSPF routes.
- D. The OSPF export policy accepts all active OSPF routes.

**Correct Answer: AC**  
**Section: Volume B**  
**Explanation**

**Explanation/Reference:**

**QUESTION 109**

Which statement is correct about policies in the Junos OS?

- A. Import policies are used to filter routes from the routing table to the forwarding table.
- B. Import policies are used to filter routes destined for the routing table.
- C. Import policies are used to filter routes being sent to neighboring devices.
- D. Import policies are used to filter traffic entering the device.

**Correct Answer: B**  
**Section: Volume B**  
**Explanation**

**Explanation/Reference:**

**QUESTION 110**

Which statement is correct about policies in the Junos OS?

- A. Export policies are used to filter routes from the RE forwarding table to the PFE forwarding table.
- B. Export policies are used to filter routes destined for the routing table.
- C. Export policies are used to filter routes being sent to neighboring devices.
- D. Export policies are used to filter traffic leaving the device.

**Correct Answer: C**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 111**

What is the default action for firewall filters?

- A. accept
- B. reject
- C. discard
- D. log

**Correct Answer: C**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 112**

What is the purpose of unicast reverse path forwarding?

- A. to validate packet receipt on interfaces where the traffic should be received
- B. to forward packets out the interfaces where the traffic should be received
- C. to forward packets out the interfaces where the traffic should be sent
- D. to validate packet receipt on interfaces where the traffic should be sent

**Correct Answer: A**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 113**

Which two statements are correct about firewall filters in the Junos OS? (Choose two.)

- A. Firewall filters are stateless.
- B. Firewall filters are used to control routing information that is exchanged between devices.
- C. Firewall filters are used to control traffic passing through the device.
- D. Firewall filters can only be applied to traffic entering the device.

**Correct Answer: AC**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 114**

Which two firewall filter actions will terminate the processing and evaluation of a packet? (Choose two.)

- A. permit
- B. accept
- C. deny
- D. discard

**Correct Answer:** BD

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 115**

Which two statements are true regarding routing policy processing? (Choose two.)

- A. The Junos OS verifies the match criteria of each policy in order and performs the associated action when a match occurs.
- B. Policies are evaluated from right to left as displayed in the Junos OS configuration file.
- C. Policies are evaluated based on the order in which they are applied to a routing protocol.
- D. Policy processing stops once the last statement in the policy is evaluated.

**Correct Answer:** AC

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 116**

What are three firewall filter terminating actions? (Choose three.)

- A. accept
- B. log
- C. reject
- D. discard
- E. drop

**Correct Answer:** ACD

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 117**

Which command will apply a policy to redistribute static routes into OSPF?

- A. set protocols ospf import static-routes

- B. set protocols ospf export static-routes
- C. set routing-options static defaults readvertise
- D. set routing-options static route 0.0.0.0/0 readvertise

**Correct Answer:** B

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### QUESTION 118

-- Exhibit --

```
[edit firewall family inet filter input-filter]
user@router# show
term my-policy {
  from {
    source-address {
      151.43.62.0/24;
    }
  }
  then {
    count;
  }
}
term else {
  then {
    discard;
  }
}
-- Exhibit --
```

Which two tasks are accomplished by the firewall filter shown in the exhibit? (Choose two.)

- A. Traffic matching the my-policy term will be counted and accepted.
- B. Traffic matching the my-policy term will be counted and discarded.
- C. Traffic not matching the my-policy term will be discarded.
- D. Traffic not matching the my-policy term will be accepted.

**Correct Answer:** AC

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### QUESTION 119

-- Exhibit --

```
[edit policy-options]
user@router# show
policy-statement my-policy {
  term 1 {
    from {
      route-filter 172.27.0.0/24 longer;
    }
  }
}
```

```
then reject;
}
-- Exhibit --
```

Which statement is correct about the policy shown in the exhibit?

- A. All routes are accepted.
- B. All routes are rejected.
- C. A 172.27.0.0/24 route will be accepted.
- D. A 172.27.0.0/16 route will be accepted.

**Correct Answer: B**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 120**

```
-- Exhibit --
policy-options {
  policy-statement example-pol {
    term 1 {
      from {
        protocol static;
        route-filter 10.1.0.0/16 exact;
      }
      then {
        preference 6;
        accept;
      }
    }
    term 2 {
      from {
        protocol static;
        route-filter 10.1.1.0/24 longer;
      }
      then {
        preference 7;
        accept;
      }
    }
    term 3 {
      from {
        protocol static;
        route-filter 10.1.0.0/16 upto /24;
      }
      then {
        preference 8;
        accept;
      }
    }
    term 4 {
      then accept;
    }
  }
}
```



-- Exhibit --

Referring to the exhibit, if the static route with prefix 10.1.1.0/24 is evaluated against the routing policy, which preference value will be set?

- A. The preference will be 6.
- B. The preference will be 7.
- C. The preference will be 8.
- D. The preference will be the default for static routes.

**Correct Answer: C**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

#### QUESTION 121

-- Exhibit --

```
[edit policy-options]
user@router# show
policy-statement block-routes {
term 1 {
from {
route-filter 172.27.0.0/24 longer;
}
then reject;
}
term 2 {
then accept;
}
}
```

-- Exhibit --

You are asked to ensure that your device does not accept any prefixes within the 172.27.0.0/24 network. You have applied the policy shown in the exhibit, but the 172.27.0.0/24 route is still present on your device.

Which configuration will resolve this problem?

- A. [edit policy-options policy-statement block-routes]  
user@router# set term 1 from route-filter 172.27.0.0/24 orlonger
- B. [edit policy-options policy-statement block-routes]  
user@router# set term 1 from route-filter 172.27.0.0/24 upto /30
- C. [edit policy-options policy-statement block-routes]  
user@router# set term 2 from route-filter 172.27.0.0/24 longer
- D. [edit policy-options policy-statement block-routes]  
user@router# set term 2 from route-filter 172.27.0.0/24 orlonger

**Correct Answer: A**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 122**

```
-- Exhibit --
[edit policy-options policy-statement my-policy]
user@router# show
term 1 {
  from {
    route-filter 192.168.0.0/16 orlonger;
  }
  then accept;
}
-- Exhibit --
```

Referring to the exhibit, which three networks match the policy? (Choose three.)

- A. 192.168.0.0/16
- B. 192.168.0.0/15
- C. 192.168.65.0/24
- D. 192.167.0.0/17
- E. 192.168.24.89/32

**Correct Answer:** ACE

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 123**

```
-- Exhibit --
firewall {
  filter select-telnet {
    term 1 {
      from {
        source-address {
          10.0.0.0/8;
        }
      }
    }
    then log;
  }
  term 2 {
    from {
      protocol tcp;
      port telnet;
    }
    then {
      syslog;
      reject;
    }
  }
  term 3 {
    from {
      source-address {
        10.1.1.1/32;
      }
    }
  }
}
```

```

protocol tcp;
port telnet;
}
then {
sample;
accept;
}
}
}
}
}

```

-- Exhibit --

A Telnet session is initiated from host 10.1.1.1.

What will happen when it is processed by the firewall filter shown in the exhibit?

- A. The packet will be accepted and logged.
- B. The packet will be discarded and logged.
- C. The packet will be rejected and a syslog message generated.
- D. The packet will be accepted and sampled.

**Correct Answer:** A

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### QUESTION 124

-- Exhibit --

```

[edit policy-options policy-statement my-policy]
user@router# show
term 1 {
from {
route-filter 192.168.0.0/16 prefix-length-range /20-/24;
}
then accept;
}
}
-- Exhibit --

```

Referring to the exhibit, which three networks match the policy? (Choose three.)

- A. 192.168.0.0/20
- B. 192.168.0.0/16
- C. 192.168.128.0/18
- D. 192.168.128.0/21
- E. 192.168.64.0/24

**Correct Answer:** ADE

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

### QUESTION 125

```
-- Exhibit --
[edit policy-options policy-statement my-policy]
user@router# show
term reject {
then reject;
}
term match {
from {
protocolbgp;
route-filter 10.10.10.0/24 exact;
}
}
-- Exhibit --
```

Referring to the exhibit, you must move the match term above the reject term.

Which command would accomplish this task?

- A. set term match from policy reject
- B. up 1 copy policy-statement my-policy term match to term before-reject
- C. activate term match to policy
- D. insert term match before term reject

**Correct Answer: D**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

### QUESTION 126

-- Exhibit --

Time	Filter	Action	Interface	Protocol	Src Addr	Dest Addr
14:52:51	select-telnet	A	local	TCP	192.168.10.1	192.168.209.2
14:52:51	select-telnet	A	local	TCP	192.168.10.1	192.168.209.2
14:52:46	select-telnet	A	local	TCP	192.168.10.1	192.168.209.2
14:52:46	select-telnet	A	local	TCP	192.168.10.1	192.168.209.2
14:52:46	select-telnet	A	local	TCP	192.168.10.1	192.168.209.2
14:52:46	select-telnet	A	local	TCP	192.168.10.1	192.168.209.2
14:52:46	select-telnet	A	local	TCP	192.168.10.1	192.168.209.2
14:41:41	pfe	A	local	TCP	192.168.10.1	192.168.209.2
14:41:41	pfe	A	local	TCP	192.168.10.1	192.168.209.2
14:41:36	pfe	A	local	TCP	192.168.10.1	192.168.209.2
14:41:36	pfe	A	local	TCP	192.168.10.1	192.168.209.2
14:41:36	pfe	A	local	TCP	192.168.10.1	192.168.209.2
14:41:36	pfe	A	local	TCP	192.168.10.1	192.168.209.2

-- Exhibit --

Which command produces the output shown in the exhibit?

- A. show firewall counter telnet-counter filter select-telnet

- B. show firewall log
- C. show log messages
- D. show services accounting usage

**Correct Answer:** B

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 127**

Which two statements are true about firewall filter configurations? (Choose two.)

- A. Multiple action modifiers can be included in the same term.
- B. Only a single action modifier can be included in the same term.
- C. The default term within a firewall filter uses the discard action.
- D. The default term within a firewall filter uses the reject action.

**Correct Answer:** AC

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 128**

Which two statements are true about firewall filter configurations? (Choose two.)

- A. Multiple action modifiers can be included in the same term.
- B. Only a single action modifier can be included in the same term.
- C. If an action modifier exists without a terminating action, matching packets will be accepted.
- D. If an action modifier exists without a terminating action, matching packets will be discarded.

**Correct Answer:** AC

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 129**

You have configured a firewall filter with a single term matching on packets with a source address in the 10.0.0.0/24 subnet. This term only includes the count action.

Which two statements are true about traffic evaluated by this firewall filter? (Choose two.)

- A. Packets outside the 10.0.0.0/24 subnet will be accepted.
- B. Packets outside the 10.0.0.0/24 subnet will be rejected.
- C. Packets outside the 10.0.0.0/24 subnet will be counted.
- D. Packets outside the 10.0.0.0/24 subnet will not be counted.

**Correct Answer:** BD

**Section:** Volume B

### **Explanation**

### **Explanation/Reference:**

#### **QUESTION 130**

You have configured a firewall filter with a single term matching on packets with a source address in the 10.0.0.0/24 subnet. This term only includes the count action.

Which two statements are true about traffic evaluated by this firewall filter? (Choose two.)

- A. Packets within the 10.0.0.0/24 subnet will be accepted.
- B. Packets within the 10.0.0.0/24 subnet will be rejected.
- C. Packets within the 10.0.0.0/24 subnet will be counted.
- D. Packets within the 10.0.0.0/24 subnet will not be counted.

**Correct Answer:** AC

**Section:** Volume B

### **Explanation**

### **Explanation/Reference:**

#### **QUESTION 131**

The IP address 192.168.100.1 belongs to which class of IP address space?

- A. Class A
- B. Class B
- C. Class C
- D. Class D

**Correct Answer:** C

**Section:** Volume B

### **Explanation**

### **Explanation/Reference:**

#### **QUESTION 132**

Which word starts a command to add configuration on a Junos device?

- A. get
- B. set
- C. put
- D. show

**Correct Answer:** B

**Section:** Volume B

### **Explanation**

### **Explanation/Reference:**

#### **QUESTION 133**

Which word starts the command to remove configuration elements on a Junos device?

- A. undo
- B. remove
- C. delete
- D. unset

**Correct Answer: C**  
**Section: Volume B**  
**Explanation**

**Explanation/Reference:**

**QUESTION 134**

After editing to your device's configuration, which command must you enter to activate the configuration changes?

- A. set
- B. copy candidate active
- C. apply-config
- D. commit

**Correct Answer: D**  
**Section: Volume B**  
**Explanation**

**Explanation/Reference:**

**QUESTION 135**

What is the decimal equivalent of 00000110?

- A. 2
- B. 4
- C. 6
- D. 11

**Correct Answer: C**  
**Section: Volume B**  
**Explanation**

**Explanation/Reference:**

**QUESTION 136**

Which CLI mode allows you to make configuration changes?

- A. enable mode
- B. configuration mode
- C. operational mode
- D. active mode

**Correct Answer: B**  
**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 137**

Which command do you use to navigate to [edit interfaces]?

- A. cd interfaces
- B. dir edit interfaces
- C. edit interfaces
- D. interfaces

**Correct Answer: C**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 138**

Which command will display the contents of the forwarding table?

- A. show route forwarding-table
- B. show forwarding
- C. show configuration
- D. show interfaces

**Correct Answer: A**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 139**

Which operating system do Juniper Networks MX Series routers use?

- A. IOS
- B. MX-OS
- C. UNIX
- D. Junos OS

**Correct Answer: D**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 140**

Which command do you use to go from the shell prompt to the CLI prompt?

- A. run cli



- B. cli
- C. start cli
- D. edit

**Correct Answer:** B  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 141**

Which account is used to access a Junos device in factory-default configuration?

- A. root
- B. admin
- C. juniper
- D. user

**Correct Answer:** A  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 142**

Which statement is true regarding the Junos OS?

- A. Each process runs in its own protected memory space ensuring that one process cannot directly interfere with another.
- B. Processes share memory space but use separate ASICs so that one process cannot directly interfere with another.
- C. A central processor called the IP2 Chip dynamically assigns memory as process needs fluctuate.
- D. The memory management daemon (mmd) is responsible for allocating new memory for processes as they request it.

**Correct Answer:** A  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 143**

Which statement is true regarding the Junos OS?

- A. The Junos kernel is based on the Solaris operating system.
- B. The Junos kernel is based on the GNU Zebra operating system.
- C. The Junos kernel is completely original and not based on any other operating system.
- D. The Junos kernel is based on the FreeBSD UNIX operating system.

**Correct Answer:** D  
**Section:** Volume B

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 144**

Which statement is true regarding the Junos OS?

- A. All platforms running the Junos OS use the same source code base.
- B. All platforms running the Junos OS use the same PFE.
- C. All platforms running the Junos OS use a hard drive to optimize syslog data storage.
- D. All platforms running the Junos OS use a separate process with protected memory space for each routing protocol.

**Correct Answer: A**

**Section: Volume B**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 145**

Which statement is true regarding the Junos OS?

- A. All platforms running the Junos OS have identical factory-default configurations.
- B. All platforms running the Junos OS use the IP2 processor for longest-match lookup.
- C. All platforms running the Junos OS use the same source code base.
- D. All platforms running the Junos OS use FXP1 for communication between control and forwarding planes.

**Correct Answer: C**

**Section: Volume B**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 146**

What are two Junos processes? (Choose two.)

- A. OSPF SPF daemon (ospfd)
- B. SNMP daemon (snmpd)
- C. BGP daemon (bgpd)
- D. Routing protocols daemon (rpd)

**Correct Answer: BD**

**Section: Volume B**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 147**

On which operating system is the Junos OS based?

- A. ScreenOS
- B. Solaris
- C. FreeBSD
- D. HP-UX

**Correct Answer:** C

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 148**

What is an advantage of multiple software processes running in the Junos OS?

- A. Each process has its own protected memory space.
- B. Each process is started manually by the user at boot.
- C. All processes are dependent on each other.
- D. Multiple processes allow each routing protocol to be independent.

**Correct Answer:** A

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 149**

Which two statements are true regarding the role of the Routing Engine (RE)? (Choose two.)

- A. The RE controls and monitors the chassis.
- B. The RE manages the Packet Forwarding Engine (PFE).
- C. The RE receives a copy of the forwarding table from the forwarding plane.
- D. The RE implements class of service (COS).

**Correct Answer:** AB

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 150**

Which statement is true regarding the Junos OS?

- A. All platforms running the Junos OS separate the functions of learning and flooding.
- B. All platforms running the Junos OS separate the functions of control and forwarding.
- C. All platforms running the Junos OS separate the functions of routing and bridging.
- D. All platforms running the Junos OS separate the functions of management and routing.

**Correct Answer:** B

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 151**

Which statement is true about the forwarding plane?

- A. The forwarding plane is the intelligence of the platform.
- B. The forwarding plane is based on an X86 architecture.
- C. The forwarding plane maintains the routing tables, bridging table, and primary forwarding table.
- D. The forwarding plane implements policers, stateless firewall filters, and class of service.

**Correct Answer: D**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 152**

Which statement is true regarding the forwarding plane?

- A. The forwarding plane is contained within the Routing Engine (RE).
- B. The forwarding plane processes and evaluates exception traffic.
- C. The forwarding plane contains the Packet Forwarding Engine (PFE).
- D. The forwarding plane is not present on all platforms running the Junos OS.

**Correct Answer: C**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 153**

Which statement is true about the forwarding plane?

- A. It uses ASICs for increased performance.
- B. It is the intelligence of the platform.
- C. It maintains the routing tables.
- D. It is based on an x86 architecture.

**Correct Answer: A**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 154**

By default, which character indicates the configuration mode prompt?

- A. #
- B. >
- C. \$

D. %

**Correct Answer:** A  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

**QUESTION 155**

By default, which character indicates the UNIX shell prompt?

- A. #
- B. >
- C. \$
- D. %

**Correct Answer:** D  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

**QUESTION 156**

How do you ping from configuration mode?

- A. [edit interfaces]  
user@router# run ping 1.1.1.1
- B. [edit interfaces]  
user@router# ping 1.1.1.1
- C. [edit interfaces]  
user@router# up ping 1.1.1.1
- D. [edit interfaces]  
user@router# exit ping 1.1.1.1

**Correct Answer:** A  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

**QUESTION 157**

Which two commands will successfully create ping traffic? (Choose two.)

- A. user@router# ping 10.10.10.1
- B. user@router# run ping 10.10.10.1
- C. user@router> ping 10.10.10.1
- D. user@router> request ping 10.10.10.1

**Correct Answer:** BC  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

**QUESTION 158**

Which command is used to display all output at once?

- A. show interfaces | all
- B. show interfaces | no-more
- C. show interfaces | hold
- D. show interfaces | display-all

**Correct Answer: B**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 159**

Which CLI command is used to display output one page at a time?

- A. user@router> show interfaces | no-more
- B. user@router> show interfaces | trim
- C. user@router> show interfaces
- D. user@router> show interfaces | display

**Correct Answer: C**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 160**

What information does the help reference command provide?

- A. A brief description of commands and their default values
- B. The serial number and version number of the device used to open a support case with JTAC
- C. A list of all the active hardware alarms on the device
- D. A display of the current configuration while in operational mode

**Correct Answer: A**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 161**

Which command do you use to identify the meaning of a syslog message?

- A. help log messages
- B. man log messages

- C. man syslog
- D. help syslog

**Correct Answer:** D  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 162**

You want to log in to the router and make a configuration change.

After logging in as the root user, what is the next command you must enter?

- A. enable
- B. configure
- C. edit
- D. cli

**Correct Answer:** D  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 163**

You are configuring a new BGP neighbor and want to view the configuration of interface ge-0/0/0.42.

Which command do you use to achieve this result?

- A. [edit protocols bgp group external]  
user@router# set interfaces ge-0/0/0.42
- B. [edit protocols bgp group external]  
user@router# edit show interfaces ge-0/0/0.42
- C. [edit protocols bgp group external]  
user@router# top show interfaces ge-0/0/0.42
- D. [edit protocols bgp group external]  
user@router# show interfaces ge-0/0/0.42

**Correct Answer:** C  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 164**

You are at the top of the hierarchy and must configure OSPF on interface so-0/0/0 unit 100.

Which two achieve this result? (Choose two.)

- A. set protocols  
setospf area 0

set interface so-0/0/0.100

- B. set protocols ospf area 0 interface so-0/0/0.100
- C. edit protocols ospf interface so-0/0/0.100
- D. edit protocols ospf area 0  
set interface so-0/0/0.100

**Correct Answer:** BD

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 165**

Which CLI keyboard sequence allows you to move the cursor to the beginning of the line?

- A. Ctrl+e
- B. Ctrl+p
- C. Ctrl+w
- D. Ctrl+a

**Correct Answer:** D

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 166**

Which two statements apply when a user has entered private configuration mode by typing configure private? (Choose two.)

- A. All users have their own active configuration.
- B. All users have their own private candidate configuration.
- C. When a user commits, all nonconflicting changes made by all users are committed.
- D. When a user commits, only the user's own changes are committed.

**Correct Answer:** BD

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 167**

Which two statements are true when using the configure exclusive CLI command? (Choose two.)

- A. Multiple users can enter configuration mode and have their own private configuration.
- B. When a user commits, only the user's changes are committed.
- C. A message indicates which other users are in configuration mode and what portion of the configuration they are editing.
- D. Only a single user can edit the configuration.

**Correct Answer:** BD



**Section: Volume B****Explanation****Explanation/Reference:****QUESTION 168**

How do you save the current candidate configuration in the set format to permanent storage media?

- A. [edit]  
user@router# show | set | save /var/tmp/current.conf
- B. [edit]  
user@router# show | compare set | save /var/tmp/current.conf
- C. [edit]  
user@router# save /var/tmp/current.conf | display set
- D. [edit]  
user@router# show | display set | save /var/tmp/current.conf

**Correct Answer: D**

**Section: Volume B****Explanation****Explanation/Reference:****QUESTION 169**

You configured an interface with an IP address and committed the change. You then committed a change that added an exception in a firewall filter to allow this network through the filter. You realize that this work was done on the wrong router.

How do you undo all these changes?

- A. rollback 2
- B. rollback 1
- C. rollback 0
- D. rollback 3

**Correct Answer: A**

**Section: Volume B****Explanation****Explanation/Reference:****QUESTION 170**

You have just issued the command user@router# save current.conf.

Assuming the default settings, where in the file system is current.conf saved?

- A. /var/tmp/
- B. /var/config/saved/
- C. /var/home/user/
- D. /config/

**Correct Answer: C**

**Section: Volume B****Explanation****Explanation/Reference:****QUESTION 171**

Using the command, `user@router# load override latest.conf`, where in the file system will the `latest.conf` be located?

- A. `/var/home/user/`
- B. `/var/config/saved/`
- C. `/var/tmp/`
- D. `/config/`

**Correct Answer: A**

**Section: Volume B****Explanation****Explanation/Reference:****QUESTION 172**

What does the command `show | compare rollback 1 display?`

- A. the difference between the current candidate configuration and the candidate configuration from one commit ago
- B. the difference between the current active configuration and the current candidate configuration
- C. the difference between the current active configuration and the active configuration from one commit ago
- D. the difference between the current candidate configuration and the archived configuration from one commit ago

**Correct Answer: D**

**Section: Volume B****Explanation****Explanation/Reference:****QUESTION 173**

How do you write the current candidate configuration to the permanent storage media?

- A. `[edit]`  
`user@router# save /var/tmp/current.conf`
- B. `[edit]`  
`user@router# write /var/tmp/current.conf`
- C. `[edit]`  
`user@router# commit /var/tmp/current.conf`
- D. `[edit]`  
`user@router# dump /var/tmp/current.conf`

**Correct Answer: A**

**Section: Volume B****Explanation**

**Explanation/Reference:**

**QUESTION 174**

Which J-Web tab do you use to add licenses to the device?

- A. "Configure"
- B. "Troubleshoot"
- C. "Monitor"
- D. "Maintain"

**Correct Answer: D**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 175**

Which three functions are available under the "Maintain" tab of J-Web? (Choose three.)

- A. download and delete log files
- B. view real-time statistics of interfaces
- C. reboot the system
- D. view and add licenses
- E. edit security settings

**Correct Answer: ACD**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 176**

Which command is used to enable access to J-Web using HTTPS?

- A. set system remote-access profile https
- B. set services remote-access profile j-web-https
- C. set system services web-management https
- D. set services web-management j-web-https

**Correct Answer: C**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

**QUESTION 177**

How can you verify that you have correctly configured SSH access to your Junos device?

- A. user@router# show system services
- B. user@router> show configuration services

- C. user@router# show configuration system services
- D. user@router# show system login

**Correct Answer:** A  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 178**

What must be configured prior to the first commit after factory defaults are loaded?

- A. root authentication
- B. default gateway
- C. host name
- D. management services

**Correct Answer:** A  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 179**

Which two statements are true about the rescue configuration file? (Choose two.)

- A. It must include a root password.
- B. It is rollback file number 50, and you can recover it by issuing rollback 50.
- C. It is created by issuing request system configuration rescue save.
- D. It is updated automatically when you commit.

**Correct Answer:** AC  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 180**

Which command will save the current active configuration as the rescue configuration?

- A. user@router# save | rescue
- B. user@router> request system configuration rescue save
- C. user@router# save rescue configuration
- D. user@router> file save rescue-configuration

**Correct Answer:** B  
**Section:** Volume B  
**Explanation**

**Explanation/Reference:**

**QUESTION 181**

Which command will delete the current rescue configuration?

- A. user@router# system delete configuration rescue
- B. user@router> request system configuration rescue delete
- C. user@router# delete rescue configuration
- D. user@router> file delete rescue-configuration

**Correct Answer:** B

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 182**

Which two statements are true about the primary address on an interface? (Choose two.)

- A. It is the address used by default as the local address for broadcast and multicast packets sourced locally and sent out of the interface.
- B. You use the primary address when you have multiple IP addresses belonging to the same subnet on the same interface.
- C. It can be useful for selecting the local address used for packets sent out of unnumbered interfaces when multiple non-127 addresses are configured on the loopback interface.
- D. By default, the primary address on an interface is selected as the numerically highest local address configured on the interface.

**Correct Answer:** AC

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 183**

What are three physical interface properties? (Choose three.)

- A. payload scrambling
- B. virtual circuit identifier
- C. FCS
- D. link speed
- E. IP address

**Correct Answer:** ACD

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 184**

Which two commands may be used when configuring an IP address for a Gigabit Ethernet interface? (Choose two.)

- A. set interfaces ge-0/0/0.0 address 10.1.1.1/24
- B. set interfaces ge-0/0/0.0 family inet address 10.1.1.1/24
- C. set interfaces ge-0/0/0 unit 0 family inet address 10.1.1.1/24
- D. set interfaces ge-0/0/0 address 10.1.1.1/24

**Correct Answer:** BC

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### QUESTION 185

You accidentally configured interface so-0/0/0.0 with /32 instead of /30.

Which two solutions could you use to correct this configuration? (Choose two.)

- A. [edit interfaces so-0/0/0.0]  
user@router# replace family inet address /32 with /30
- B. [edit interfaces so-0/0/0.0]  
user@router# rename family inet address /32 to address /30
- C. [edit]  
user@router# replace interface so-0/0/0.0 family inet address /32 with address /30
- D. [edit interfaces so-0/0/0.0]  
user@router# delete family inet address  
user@router# set family inet address /30

**Correct Answer:** BD

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### QUESTION 186

Which three user authentication methods are supported by the Junos OS? (Choose three.)

- A. RADIUS
- B. CHAP
- C. local user database
- D. TACACS+
- E. PAP

**Correct Answer:** ACD

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### QUESTION 187

Which user authentication method is supported by the Junos OS as a last resort alternative?

- A. TACACS+

- B. RADIUS
- C. local user database
- D. enable password

**Correct Answer:** C

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 188**

Which two external authentication methods are supported by the Junos OS for user authentication? (Choose two.)

- A. RADIUS
- B. KERBEROS
- C. IPsec
- D. TACACS+

**Correct Answer:** AD

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 189**

The authentication order configuration on your M120 includes the settings tacplus and radius (in that order), but does not include the password parameter. You attempt to log in to the device, but the network containing the authentication servers is currently down.

Which statement is true about your login attempt?

- A. The login attempt is rejected.
- B. The login attempt is automatically accepted after the authentication servers' timeout value is reached, since there are no other authentication methods available.
- C. The M120 automatically tries authenticating locally on the device after the authentication servers' timeout value is reached.
- D. The M120 automatically tries authenticating locally on the device before using external authentication.

**Correct Answer:** C

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 190**

You have been asked to configure a login class that will permit its users to view and edit the configuration. The class should allow a user to view the entire configuration, but only to edit the interfaces, routing-options, and protocols hierarchies.

Which configuration accomplishes this login class?

- A. permissions [ view-configuration clear network view ];  
allow-configuration "(interfaces) | (routing-options) | (policy-options) | (protocols)";
- B. permissions [ view-configuration clear network view ];  
allow-commands "(configure)";
- C. permissions [ view-configuration clear network view ];  
allow-commands "(configure)";  
allow-configuration "(interfaces) | (routing-options) | (protocols)";
- D. permissions [ clear network view ];  
allow-commands "(configure)";  
allow-configuration "(interfaces) | (routing-options) | (protocols)";

**Correct Answer: C**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 191**

Which two login-class permissions could permit a user to view the system hierarchy of the active configuration? (Choose two.)

- A. system permission
- B. view-configuration permission
- C. network permission
- D. super-user permission

**Correct Answer: AB**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 192**

Which login class permission will allow a user to use the telnet utility?

- A. network permission
- B. maintenance permission
- C. supervisor permission
- D. shell permission

**Correct Answer: A**

**Section: Volume B**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 193**

Which two statements are true regarding trace options on Junos devices? (Choose two.)

- A. You can see the contents of the log file by entering the show log <filename> command.
- B. Trace options will send information to your screen automatically.



- C. Trace options are limited to one protocol at a time.
- D. The file name and a set of flags may be specified when enabling traceoptions.

**Correct Answer:** AD

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 194**

Which directory does the Junos OS use to store syslog information by default?

- A. /var/messages
- B. /var/syslog
- C. /var/tmp
- D. /var/log

**Correct Answer:** D

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 195**

Which statement is true regarding syslog on Junos devices?

- A. No logging is enabled by default.
- B. By default, the information is stored in a file named events.
- C. Only the message severity level must be configured.
- D. You can configure the router to send log messages to the console.

**Correct Answer:** D

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

#### **QUESTION 196**

What is the default SNMP permission level on Junos devices?

- A. read
- B. read-write
- C. read-only
- D. write

**Correct Answer:** C

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 197**

Which operational mode command can be used to synchronize the local system time with an NTP server?

- A. set ntp time 64.32.129.3
- B. set clock ntp 64.32.129.3
- C. set time 64.32.129.3
- D. set date ntp 64.32.129.3

**Correct Answer:** D

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 198**

When configuring more than one archival site, which statement is true?

- A. The system will first attempt the transfer using the URL configured last.
- B. The system will transfer the configuration to each archival site.
- C. The system will not transfer to a secondary site unless the previous site fails.
- D. The system will transfer using secure copy protocol (SCP) before attempting FTP.

**Correct Answer:** C

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 199**

When considering the default behavior of Junos platforms, which statement is true about archiving configurations?

- A. A system log message is generated, confirming the transfer attempt.
- B. The destination filename format can be altered by configuration.
- C. The frequency the system archives the configuration cannot be changed.
- D. An archive log is created to track transfer attempts, both failed and successful.

**Correct Answer:** A

**Section:** Volume B

**Explanation**

**Explanation/Reference:**

**QUESTION 200**

You have been asked to configure your router to send link-related SNMP trap notifications to the network management system (NMS) located at address 172.16.17.1.

Which two commands are required? (Choose two.)

- A. set snmp trap-group my-trap-group targets 172.16.17.1

- B. set snmp targets 172.16.17.1
- C. set snmp trap-group my-trap-group link-status
- D. set snmp trap-group my-trap-group categories link

**Correct Answer:** AD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### **QUESTION 201**

Which statement is true regarding the Network Time Protocol (NTP) on Junos devices?

- A. MD5 authentication is supported by the Junos OS.
- B. Server mode is not supported by the Junos OS.
- C. The Junos OS can provide a primary time reference.
- D. The Junos OS does not support the use of a boot server.

**Correct Answer:** A

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### **QUESTION 202**

A network administrator would like to view detailed interface status, properties, statistics, errors, and CoS packet counters.

Which operational command will display this information?

- A. show interfaces extensive
- B. show interfaces
- C. show configuration interfaces
- D. show interface status

**Correct Answer:** A

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### **QUESTION 203**

When using the monitor traffic command on Junos devices, which UNIX-based utility is accessed?

- A. snoop
- B. tcpdump
- C. monitor
- D. tail

**Correct Answer:** B

**Section:** Volume C

**Explanation****Explanation/Reference:****QUESTION 204**

Which command will allow you to quickly determine the administrative status of all interfaces on a Junos device?

- A. show interfaces status
- B. show interfaces summary
- C. show interfaces terse
- D. show interfaces admin

**Correct Answer: C**

**Section: Volume C**

**Explanation****Explanation/Reference:****QUESTION 205**

A network administrator wants to verify the active alarms on interface so-0/0/0.0.

Which command displays this information?

- A. show interfaces alarms
- B. show interfaces terse
- C. show alarms extensive
- D. show interfaces extensive

**Correct Answer: D**

**Section: Volume C**

**Explanation****Explanation/Reference:****QUESTION 206**

Your network administrator has asked you to view the real-time interface usage on ge-0/0/0.

Which command would be used?

- A. monitor interface ge-0/0/0
- B. traceoptions interface ge-0/0/0
- C. debug interface ge-0/0/0
- D. monitor usage ge-0/0/0

**Correct Answer: A**

**Section: Volume C**

**Explanation****Explanation/Reference:**

**QUESTION 207**

Which operational command would you use to quickly verify the state of all interfaces?

- A. show interfaces terse
- B. show interfaces
- C. show configuration interfaces
- D. show interface status

**Correct Answer:** A

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 208**

Which command displays the amount of space available on the storage media?

- A. show chassis routing-engine
- B. show system file-storage
- C. file list
- D. show system storage

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 209**

Which command do you use to display the messages seen during the last system boot?

- A. show system boot-messages
- B. show chassis messages
- C. show file system boot-messages
- D. show boot-log messages

**Correct Answer:** A

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 210**

Which command do you use to show active alarms?

- A. show hardware state
- B. show system alarms
- C. show chassis state
- D. show services alarms

**Correct Answer:** B

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

**QUESTION 211**

Which command do you use as a valid way to view the PICs within a router as well as the PICs' serial numbers?

- A. show chassis hardware
- B. show chassis interfaces
- C. show chassis pic
- D. show chassis inventory

**Correct Answer: A**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

**QUESTION 212**

What is a valid option when using the ping command?

- A. packet loss
- B. packet size
- C. CRC
- D. TCP port

**Correct Answer: B**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

**QUESTION 213**

You issue the ping interface t1-1/1/0 bypass-routing count 1000 rapid command.

Which statement is correct?

- A. The count parameter creates a counter that you can view with the show firewall command.
- B. The count parameter allows the router to count the number of pings for logging purposes.
- C. The count parameter allows the router to pause for 1000 seconds before sending out a ping.
- D. The count parameter allows the router to send out 1000 pings and then stop.

**Correct Answer: D**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

**QUESTION 214**

You issue the ping interface t1-1/1/0 1.1.1.1 bypass-routing count 1000 rapid command.

Which statement is correct?

- A. The bypass-routing parameter is used to test the density on the T1 line.
- B. The bypass-routing parameter cannot be used on a T1 interface.
- C. The bypass-routing parameter allows you to ping a host through an interface that has no route through it.
- D. The bypass-routing parameter allows you to ping a local WAN interface without generating any outbound traffic.

**Correct Answer: C**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 215**

You issue the command telnet interface ge-1/1/0 10.10.10.1 source 192.168.100.1 bypass-routing.

Which statement is correct?

- A. The bypass-routing parameter is ignored when using private IP addressing.
- B. The telnet session will have the source IP address 10.10.10.1.
- C. The telnet session will connect to the neighboring device's interface ge-1/1/0.
- D. Return traffic for the telnet session might not arrive at interface ge-1/1/0.

**Correct Answer: D**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 216**

Which command do you issue to upgrade the current software on Junos devices?

- A. request system software replace
- B. request system software install
- C. request system software add
- D. request system software upgrade

**Correct Answer: C**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 217**

Which two commands allow you to return to a previous version of software on the device? (Choose two.)

- A. request system software add
- B. request system software downgrade

- C. request system software replace
- D. request system software rollback

**Correct Answer:** AD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### **QUESTION 218**

Which CLI command do you use to determine which files are cleanup candidates?

- A. request system storage cleanup candidates
- B. request system services storage candidates
- C. request system services candidate cleanup
- D. request system storage cleanup dry-run

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### **QUESTION 219**

Which three steps are part of the root password recovery process? (Choose three.)

- A. Reboot the device.
- B. Run the recovery script.
- C. Reset the root password.
- D. Reset the user passwords.
- E. Load factory-default configuration.

**Correct Answer:** ABC

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### **QUESTION 220**

During a password recovery, what is the next step after configuring the system to boot into single-user mode?

- A. Reset the root password.
- B. Press the space bar.
- C. Type recovery.
- D. Press the "Enter" key.

**Correct Answer:** C

**Section:** Volume C

**Explanation**

**Explanation/Reference:**



**QUESTION 221**

Which statement is true regarding the password-recovery process?

- A. You must have a console connection.
- B. You cannot set the console port to an insecure mode.
- C. You must press the Enter key so that you can boot into single-user mode.
- D. When prompted to enter the full pathname of the shell, you must press the Enter key.

**Correct Answer:** A

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 222**

What is the role of route preference?

- A. It is used as a tiebreaker when the same prefix is available through multiple protocols.
- B. It is used to determine the preferred path to a given destination.
- C. It is used to select the best route between multiple equal-cost paths.
- D. It is used to select which routing table to use for forwarding.

**Correct Answer:** A

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 223**

Which two statements are correct regarding default protocol preference values? (Choose two.)

- A. OSPF internal routes have a lower preference than static routes.
- B. Both direct and local routes have the same preference value.
- C. OSPF's preference value is lower than BGP.
- D. OSPF has a single preference value for both internal and external routes.

**Correct Answer:** BC

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 224**

What is the default route preference value for EIGRP?

- A. 20
- B. 100
- C. 170
- D. 200

**Correct Answer:** C  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

**QUESTION 225**

Which two statements are correct regarding default protocol preference values? (Choose two.)

- A. RIP is preferred over OSPF external routes.
- B. Direct, local, and static routes have the same preference value.
- C. OSPF's preference value is lower than BGP.
- D. OSPF has a single preference value for both internal and external routes.

**Correct Answer:** AC  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

**QUESTION 226**

What is the default protocol preference for OSPF internal routes?

- A. 10
- B. 15
- C. 150
- D. 160

**Correct Answer:** A  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

**QUESTION 227**

You are modifying the default route preference under the [edit protocols] hierarchy.

In which two routing information sources can you change the default preference value? (Choose two.)

- A. local
- B. OSPF
- C. direct
- D. BGP

**Correct Answer:** BD  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

**QUESTION 228**

By default, if equal-cost paths exist for the same destination, which action will the router take?

- A. Drop half the traffic.
- B. Make a copy of the traffic and send it to both destinations.
- C. Load-balance traffic between the available paths.
- D. Randomly select one of the available paths to send traffic.

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 229**

Which command will display only direct routes?

- A. show route
- B. show route inet.0 direct
- C. show ip route direct
- D. show route protocol direct

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 230**

What are two reasons why a route might be hidden? (Choose two.)

- A. route preference
- B. routing loop
- C. invalid next hop
- D. routing policy

**Correct Answer:** CD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 231**

When attempting to view the OSPF routes in the routing table, you issue the command show route table inet.3 but no OSPF routes are displayed.

What is the problem?

- A. The OSPF routes are located in the inet4.0 routing table.
- B. The OSPF routes are located in the inet.0 routing table.
- C. The OSPF routes are located in the inet.2 routing table.

D. The OSPF routes are located in the inet4.3 routing table.

**Correct Answer:** B

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 232**

By default, what are three valid routing tables? (Choose three.)

- A. inet.0
- B. inet4.0
- C. inet.6
- D. inet6.0
- E. inet.3

**Correct Answer:** ADE

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 233**

Which two commands would you use to view OSPF routes? (Choose two.)

- A. show ip route ospf
- B. show ospf routes
- C. show route protocol ospf
- D. show route

**Correct Answer:** CD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 234**

Which statement is true about routing tables on a Junos device?

- A. They purge any routes not selected as active routes.
- B. They exist in two places: the Routing Engine and the Packet Forwarding Engine.
- C. They are exclusively designed to handle dynamic routing protocols.
- D. They populate the forwarding table.

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 235**

Which two statements are true about the forwarding table? (Choose two.)

- A. The forwarding table lists each source protocol and preference for each destination.
- B. The forwarding table contains only active routes.
- C. The forwarding table is used to process transit packets.
- D. The forwarding table is stored in compact flash.

**Correct Answer:** BC

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 236**

Which statement is true about the forwarding table?

- A. The forwarding table is stored in the control plane only.
- B. The forwarding table is stored in the control plane and in the forwarding plane.
- C. The forwarding table contains both active and inactive routes.
- D. The forwarding table can contain only a single next hop per destination.

**Correct Answer:** B

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 237**

Which statement is true about a routing table?

- A. It contains routes learned dynamically only.
- B. It finds the best path to each destination by using a modified shortest-path-first calculation.
- C. It contains only active BGP routes.
- D. It contains all accepted routes to all destinations.

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 238**

Which statement is true about the routing table?

- A. The routing table exists in the control plane only.
- B. The routing table exists in the control plane and in the forwarding plane.
- C. The routing table contains both active and inactive routes.
- D. The routing table is stored on compact flash.

**Correct Answer:** A  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

**QUESTION 239**

You have been asked to create a static route with a next hop that is not directly connected to the router.

Which configuration parameter enables the static route to accomplish this scenario?

- A. resolve
- B. indirect
- C. next-hop
- D. recursive

**Correct Answer:** A  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

**QUESTION 240**

You have been asked to configure your MX240 with a default route toward your upstream ISP at IP address 192.168.100.1.

Which command successfully completes this task?

- A. user@router# set routing-options static route 0.0.0.0/0 next-hop 192.168.100.1
- B. user@router# set routing-options default route 0.0.0.0/0 next-hop 192.168.100.1
- C. user@router# set forwarding-options static route 0.0.0.0/0 next-hop 192.168.100.1
- D. user@router# set protocols default route 0.0.0.0/0 next-hop 192.168.100.1

**Correct Answer:** A  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

**QUESTION 241**

Which protocol creates a complete database of the network topology prior to calculating the optimal route?

- A. BGP
- B. PIM
- C. OSPF
- D. RIP

**Correct Answer:** C  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

**QUESTION 242**

Which statement describes an advantage of dynamic routing?

- A. Dynamic routing is typically more scalable when compared to static routing.
- B. Unlike static routing, dynamic routing requires no initial user configuration.
- C. Unlike static routing, dynamic routing provides redundant IP addresses for end-user devices.
- D. Dynamic routing provides DNS services along with IP connectivity, whereas static routing does not.

**Correct Answer:** A

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 243**

What is an advantage of dynamic routing?

- A. Unlike static routing, dynamic routing provides redundant IP addresses for end-user devices.
- B. Unlike static routing, dynamic routing requires no initial user configuration.
- C. Dynamic routing can provide increased network availability when compared to static routing.
- D. Dynamic routing provides DNS services along with IP connectivity; static routing does not.

**Correct Answer:** C

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 244**

Which statement describes an advantage of dynamic routing?

- A. Dynamic routing provides redundant IP addresses for end-user devices, unlike static routing.
- B. Dynamic routing requires no initial user configuration, unlike static routing.
- C. Dynamic routing provides DNS services along with IP connectivity; static routing does not.
- D. Dynamic routing typically requires less time to implement than static routing in a large network.

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 245**

You have a network containing 120 routers. You must establish and maintain connectivity between the loopback interfaces of all routers. Because of the critical services using the network, you need redundancy and fast failover.

Which routing protocol should you use in this scenario?

- A. OSPF

- B. RIP
- C. BGP
- D. static

**Correct Answer:** A  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

**QUESTION 246**

What are three examples of dynamic IGPs? (Choose three.)

- A. OSPF
- B. BGP
- C. IS-IS
- D. PIM
- E. RIP

**Correct Answer:** ACE  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

**QUESTION 247**

Which three statements are true about terms in a policy? (Choose three.)

- A. The order of the terms in a policy is irrelevant.
- B. The action is specified in a then statement.
- C. Terms are optional in a policy.
- D. The match condition can be identified with a from statement.
- E. A from statement is mandatory in a term.

**Correct Answer:** BCD  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

**QUESTION 248**

Which two statements are true about terms in a routing policy? (Choose two.)

- A. A routing policy cannot have more than one term.
- B. If a term does not contain a from statement, all routes match.
- C. If a term does not contain a from statement, the Junos OS will not commit.
- D. A then statement is not mandatory in a term.

**Correct Answer:** BD  
**Section:** Volume C



## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 249**

Which statement is true about terms in a policy?

- A. A single term can be applied to a protocol or interface, independent of the policy.
- B. Once configured, terms within a policy cannot be reordered.
- C. The name of a term is limited to five characters.
- D. A from statement is optional in a term.

**Correct Answer: D**

**Section: Volume C**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 250**

What is the default import routing policy for OSPF?

- A. Accept all OSPF routes and install them into the inet.3 routing table.
- B. Accept all OSPF routes and install them into the inet7.0 routing table.
- C. Accept all OSPF routes and install them into the inet4.0 routing table.
- D. Accept all OSPF routes and install them into the inet.0 routing table.

**Correct Answer: D**

**Section: Volume C**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 251**

By default, which two statements are true about export routing policies? (Choose two.)

- A. Export policies can evaluate only active routes.
- B. Export policies can evaluate all routes.
- C. Export policies can be applied to the forwarding table.
- D. Export policies can be applied directly to interfaces

**Correct Answer: AC**

**Section: Volume C**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 252**

What is the default export routing policy for EBGp?

- A. Accept all active BGP routes.

- B. Accept all BGP routes.
- C. Accept no routes.
- D. Accept all active IGP routes.

**Correct Answer:** A

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### **QUESTION 253**

You have received a default route through BGP from your ISP and you want to redistribute it into OSPF.

Which method will accomplish this?

- A. Apply an export policy to OSPF that exports the default route.
- B. Apply an import policy to OSPF that imports the default route.
- C. Apply the default-network command to OSPF.
- D. Apply the redistribute-igp command to BGP.

**Correct Answer:** A

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### **QUESTION 254**

There are three static routes in the routing table that need to be announced to your OSPF peers.

Which method is used to accomplish this?

- A. Apply an import policy to OSPF that injects the static routes into OSPF.
- B. Apply an import policy to the static routes that injects the static routes into OSPF.
- C. Apply an export policy to the static routes that injects the static routes into OSPF.
- D. Apply an export policy to OSPF that injects the static routes into OSPF.

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### **QUESTION 255**

What is the default export routing policy for RIP?

- A. Accept all local routes.
- B. Accept all RIP routes.
- C. Accept no routes.
- D. Accept all direct routes.

**Correct Answer:** C

**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

**QUESTION 256**

What is a route filter?

- A. a list of prefixes that can be configured in a policy
- B. a single prefix that is configured separately, and can be referenced in a policy
- C. a list of prefixes that is configured separately and can be referenced in a policy
- D. a single prefix that can be configured within a policy

**Correct Answer: A**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

Explanation:

A route filter is a collection of match prefixes. When specifying a match prefix, you can specify an exact match with a particular route or a less precise match. You can configure either a common action that applies to the entire list or an action associated with each prefix.

References: [http://www.juniper.net/documentation/en\\_US/junos16.1/topics/usage-guidelines/policy-configuring-route-lists-for-use-in-routing-policy-match-conditions.html](http://www.juniper.net/documentation/en_US/junos16.1/topics/usage-guidelines/policy-configuring-route-lists-for-use-in-routing-policy-match-conditions.html)

**QUESTION 257**

What are two valid actions for a routing policy? (Choose two.)

- A. discard
- B. next policy
- C. accept
- D. ignore

**Correct Answer: BC**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

**QUESTION 258**

What are two valid match criteria for a routing policy? (Choose two.)

- A. OSPF area ID
- B. prefix list
- C. port
- D. time-to-live (TTL)

**Correct Answer: AB**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

**QUESTION 259**

What are three valid match criteria in a firewall filter applied to a Layer 3 interface? (Choose three.)

- A. IP address
- B. MAC address
- C. protocol
- D. port
- E. session ID

**Correct Answer:** ACD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 260**

A packet is evaluated against three user-defined terms within a firewall filter and no match is found.

What correctly describes the action the firewall filter will take for this packet?

- A. The filter will permit the packet and take no additional action.
- B. The filter will reject the packet and send an ICMP message back to the sender.
- C. The filter will discard the packet and take no additional action.
- D. The filter will permit the packet and write a log entry to the firewall log.

**Correct Answer:** C

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 261**

What are three terminating actions for firewall filters? (Choose three.)

- A. reject
- B. drop
- C. permit
- D. accept
- E. discard

**Correct Answer:** ADE

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 262**

Which two can be used to create and apply an export policy that advertises static routes to RIP neighbors? (Choose two.)

- A. set protocols rip export demo
- B. edit policy-options policy-statement demo  
set term 1 from protocol static  
set term 1 then accept
- C. edit policy-options policy-statement demo  
set term 1 from protocol static accept
- D. set protocols rip group internal export demo

**Correct Answer:** AD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

### QUESTION 263

Which configuration causes RIP-learned routes to be advertised to other RIP neighbors?

- A. set protocol rip no-passive
- B. top edit policy-options policy-statement demo  
set term 1 from protocol rip  
set term 1 then accept  
  
top set protocols rip group internal export demo
- C. set protocols rip advertise in-out
- D. top edit policy-options policy-statement demo  
set term 1 from active routes  
set term 1 then accept  
  
top set protocols rip group internal export demo

**Correct Answer:** B

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

### QUESTION 264

You need to control SSH, HTTP, and Telnet access to an MX240 router through any interface. You have decided to use a firewall filter.

How should you apply the firewall filter?

- A. as an outbound filter on interface fxp0
- B. as an outbound filter on interface lo0
- C. as an inbound filter on interface fxp0
- D. as an inbound filter on interface lo0

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 265**

What are three benefits of class of service? (Choose three.)

- A. It can make a slow network faster.
- B. It can prioritize latency-sensitive traffic.
- C. It can eliminate congestion.
- D. It can control congestion.
- E. It can allocate bandwidth for different classes of traffic.

**Correct Answer:** BDE

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 266**

Random early detection (RED) is associated with which class of service component?

- A. classification
- B. policing
- C. queuing
- D. scheduling

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 267**

Which class-of-service component allows you to define the bandwidth allocated to different traffic types?

- A. classification
- B. rewrite marking
- C. scheduling
- D. queuing

**Correct Answer:** C

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 268**

What are two purposes of a forwarding class? (Choose two.)

- A. to identify traffic that should be dropped
- B. to classify traffic
- C. to identify traffic that should receive common treatment

D. to assign traffic to output queues

**Correct Answer:** CD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 269**

What represents the binary equivalence of 207?

- A. 11001111
- B. 11101011
- C. 11010111
- D. 11010101

**Correct Answer:** A

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 270**

What represents the binary equivalence of 96?

- A. 11010100
- B. 01100000
- C. 11010000
- D. 11101010

**Correct Answer:** B

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 271**

What represents the decimal equivalence of 01101110?

- A. 90
- B. 96
- C. 110
- D. 118

**Correct Answer:** C

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 272**

What represents the decimal equivalence of 11100101?

- A. 5
- B. 93
- C. 177
- D. 229

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 273**

What represents the decimal equivalence of 11100111?

- A. 195
- B. 223
- C. 230
- D. 231

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 274**

What represents the binary equivalence of 148?

- A. 10010110
- B. 11010010
- C. 10011100
- D. 10010100

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 275**

What is the decimal equivalent of 10101010?

- A. 182
- B. 180
- C. 172
- D. 170

**Correct Answer:** D



**Section: Volume C**

**Explanation**

**Explanation/Reference:**

**QUESTION 276**

What information is used by a switch to forward an Ethernet frame to its destination?

- A. IP address
- B. destination MAC address
- C. ARP table entry
- D. FCS checksum

**Correct Answer: B**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

**QUESTION 277**

Which two statements accurately describe a broadcast domain? (Choose two.)

- A. Broadcast domains require that the participating devices connect to common switches or hubs.
- B. Broadcast domains consist of devices reachable by frames addressed to the Layer 2 broadcast address.
- C. Broadcast domains require a gateway device such as a router.
- D. Broadcast domains consist of devices that reside on the same VLAN.

**Correct Answer: BD**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

**QUESTION 278**

Which two statements are correct about Layer 2 broadcast frames? (Choose two.)

- A. Layer 2 broadcast frames are processed by all devices on the same VLAN.
- B. Layer 2 broadcast frames are discarded by routers that connect to multiple VLANs.
- C. Layer 2 broadcast frames are relayed by routers to all connected VLANs.
- D. Layer 2 broadcast frames are relayed by switches to devices on the same VLAN.

**Correct Answer: AD**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

**QUESTION 279**

Which two fields are found in an Ethernet frame header? (Choose two.)

- A. TTL
- B. flags
- C. checksum
- D. type

**Correct Answer:** CD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 280**

In the MAC address 00: : :9f:eA. , what represents the Organizationally Unique Identifier (OUI)?

- A. :9f:eA.
- B. 00: : :9f
- C. 9f:eA.
- D. 00: :

**Correct Answer:** D

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 281**

What is a valid multicast MAC address?

- A. 00:90:69:9f:ea:46
- B. ff:ff:ff:ff:ff:ff
- C. 01:00:5e:28:12:95
- D. 99:99:99:99:99:99

**Correct Answer:** C

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 282**

Which two statements are true regarding an Ethernet collision domain? (Choose two.)

- A. If a switch is used, the collision domain is limited to each device and the switch.
- B. If a hub is used, the collision domain is limited to each device and the hub.
- C. If a hub is used, the collision domain includes all devices connected to the hub.
- D. If a switch is used, the collision domain includes all devices connected to the switch.

**Correct Answer:** AC

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 283**

Two devices on an Ethernet segment sent frames at the same time causing a collision.

Which two statements are true? (Choose two.)

- A. Both devices stop transmitting, wait a random period of time, verify the wire is idle, and re-transmit.
- B. The device with the lowest MAC address is permitted to retransmit first.
- C. The device with the lowest MAC address sends a jam signal to notify all other devices of the collision.
- D. Both devices send a jam signal to notify all other devices of the collision.

**Correct Answer:** AD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 284**

Which statement is true regarding an Ethernet collision domain?

- A. If a router is used, the collision domain includes all devices connected to the router.
- B. If a hub is used, the collision domain is limited to each device and the hub.
- C. If a switch is used, the collision domain is limited to each device and the switch.
- D. If a bridge is used, the collision domain includes all devices connected to the bridge.

**Correct Answer:** C

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 285**

What is the purpose of a network mask?

- A. It is used to identify the maximum hop count of a subnetwork.
- B. It is used to identify an IP address as either private or public.
- C. It is used to identify the network to which an IP address belongs.
- D. It is used to identify the total number of bits present in an IP address.

**Correct Answer:** C

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 286**

What is the purpose of a network mask?

- A. It is used in conjunction with the wildcard mask to determine the number of hosts on a network.

- B. It is used to define which parts of the IP address are allocated to host addresses and network prefixes.
- C. It is used to hide subnets from external networks by masking the subnets with NAT.
- D. It is used to differentiate a network as a classful network or a classless network.

**Correct Answer:** B

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### **QUESTION 287**

Which two statements are true of a network mask? (Choose two.)

- A. A subnet mask specifies the portion of an IP address that is in a binary format.
- B. A subnet mask specifies the portion of an IP address that is in a decimal format.
- C. A subnet mask specifies the portion of an IP address that represents a network prefix.
- D. A subnet mask specifies the portion of an IP address that represents network hosts.

**Correct Answer:** CD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### **QUESTION 288**

Which two characteristics describe the UDP protocol? (Choose two.)

- A. limited error checking
- B. defined timers
- C. no recovery mechanisms
- D. three-way handshake

**Correct Answer:** AC

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### **QUESTION 289**

You have been asked to develop an application that uses only connection-oriented protocols.

Which two protocols can you use? (Choose two.)

- A. PPP
- B. UDP
- C. TCP
- D. ICMP

**Correct Answer:** AC

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 290**

Which three protocols use UDP as a transport protocol by default? (Choose three.)

- A. HTTP
- B. TFTP
- C. DNS
- D. SNMP
- E. SMTP

**Correct Answer:** BCD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 291**

Which two protocols use UDP as a transport protocol by default? (Choose two.)

- A. Telnet
- B. ICMP
- C. DHCP
- D. RIP

**Correct Answer:** CD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 292**

Which network mask is the equivalent of 255.255.248.0?

- A. /20
- B. /21
- C. /22
- D. /23

**Correct Answer:** B

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

**QUESTION 293**

You have been assigned the /24 network and need to segment it into at least 60 subnets.

Which network mask meets this requirement?

- A. /27
- B. /28
- C. /29
- D. /30

**Correct Answer:** D  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 294**

You must segment your internal /24 network into a minimum of 12 subnets, each containing a minimum of 12 hosts.

Which network mask do you use?

- A. /26
- B. /27
- C. /28
- D. /29

**Correct Answer:** C  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 295**

What are the usable hosts on the .128.0/19 network?

- A. .128.1 through .143.254
- B. .128.128 through .134.254
- C. .128.0 through .134.254
- D. .128.1 through .159.254

**Correct Answer:** D  
**Section:** Volume C  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 296**

You have been allocated a /22 network.

How many usable hosts are available?

- A. 510
- B. 512
- C. 1022

D. 1024

**Correct Answer: C**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

**QUESTION 297**

You have been asked to use a 23-bit network mask to segment the network block 209.18.12.0.

How many usable host addresses will there be per subnet?

- A. 510
- B. 1022
- C. 2046
- D. 8190

**Correct Answer: A**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

**QUESTION 298**

-- Exhibit --

```
user@router# run show interfaces terse
Interface      Admin Link Proto  Local
fe-0/0/0       up    up
fe-0/0/0.0     up    upinet  10.0.39.2/24
iso
mpls
fe-0/0/1       up    up
fe-0/0/1.0     up    upinet  10.0.18.2/24
fe-0/0/1.5     down  up    inet   10.0.19.2/24
-- Exhibit --
```

An administrator is unable to ping any address on the 10.0.19.0/24 subnet. To identify the problem, the administrator uses the command shown in the exhibit.

Which step should be taken to solve the problem?

- A. Check the physical cable.
- B. Issue the command activate interfaces fe-0/0/1.5 .
- C. Issue the command delete interfaces fe-0/0/1.5 disable.
- D. Reconfigure the IP address.

**Correct Answer: C**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

**QUESTION 299**

-- Exhibit --

```
interfaces {
  ge-0/0/8 {
    unit 0 {
      family inet {
        address 192.168.1.1/24;
      }
    }
  }
  ge-0/0/9 {
    unit 0 {
      family inet {
        address 192.168.10.1/24;
      }
    }
  }
}
```

-- Exhibit --

Referring to the exhibit, which command would you use to add an additional address to the ge-0/0/9.0 interface?

- A. [edit interfaces ge-0/0/9 unit 0]  
user@router# set family inet address /24
- B. [edit interfaces ge-0/0/9 unit 0]  
user@router# set family inet secondary-address /24
- C. [edit interfaces ge-0/0/9 unit 0]  
user@router# set family inet address /24 secondary
- D. [edit interfaces ge-0/0/9 unit 0]  
user@router# set family inet address-secondary /24

**Correct Answer: A**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

**QUESTION 300**

-- Exhibit --

```
[edit snmp]
user@router# show
community CommunityA {
  authorization read-only;
  clients {
    192.168.1.0/28;
  }
}
trap-group groupA {
  categories {
    link;
  }
  targets {
    192.168.100.1;
    192.168.200.1;
```



```
}  
}  
-- Exhibit --
```

Referring to the exhibit, what is the purpose of the targets section of the configuration?

- A. It defines which devices will be sending traps.
- B. It specifies where to send traps.
- C. It defines the IP addresses of management systems that can access the device.
- D. It specifies which devices can be polled for SNMP data.

**Correct Answer: B**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

### QUESTION 301

-- Exhibit --

```
traceroute to 10.1.15.2 (10.1.15.2), 30 hops max, 40 byte packets  
 1 10.1.36.1 (10.1.36.1) 0.651 ms 7.834 ms 0.506 ms  
 2 10.1.23.1 (10.1.23.1) 0.5 ms 0.5 ms 0.5 ms  
 3 * * *  
 4 * * *  
-- Exhibit --
```

Referring to the exhibit, which statement is correct?

- A. The packets have exceeded the time-to-live value.
- B. There is a loop.
- C. The asterisks indicate a response time out.
- D. The asterisks indicate that the traceroute is completed.

**Correct Answer: C**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

### QUESTION 302

-- Exhibit --

```
user@router# run show route /24
```

```
inet.0: 142 destinations, 142 routes (141 active, 0 holddown, 1 hidden)  
+ = Active Route, - = Last Active, * = Both
```

```
/24    *[OSPF/10] 04:10:20  
>to 172.25.213.11 via ge-1/0/1.0  
to 172.25.213.23 via ge-1/0/2.0  
-- Exhibit --
```

In the exhibit, what does the (>) symbol indicate?

- A. There is a software issue with ge-1/0/1.0 interface.
- B. There is a hardware issue with ge-1/0/1.0 interface.
- C. The next hop of 172.25.213.11 is selected.
- D. The next hop of 172.25.213.11 is not resolvable.

**Correct Answer: C**

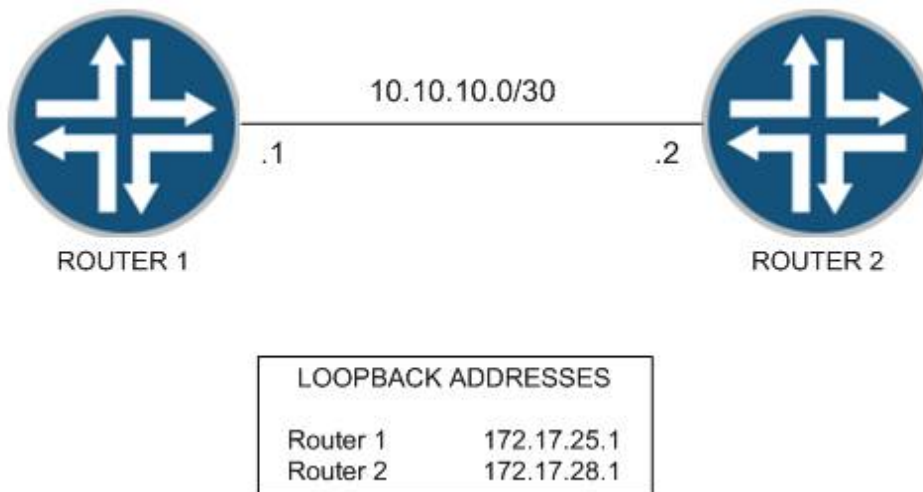
**Section: Volume C**

**Explanation**

**Explanation/Reference:**

### QUESTION 303

-- Exhibit --



-- Exhibit --

You have been asked to establish reachability between Router 1's and Router 2's loopback addresses as shown in the exhibit.

Which two steps will accomplish this task? (Choose two.)

- A. Create a static route on Router 1 to 172.17.28.1 with a next hop of 10.10.10.2.
- B. Create a static route on Router 1 to 172.17.28.1 with a next hop of 10.10.10.1.
- C. Create a static route on Router 2 to 172.17.25.1 with a next hop of 10.10.10.1.
- D. Create a static route on Router 1 to 172.17.25.1 with a next hop of 10.10.10.2.

**Correct Answer: AC**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

### QUESTION 304

```
-- Exhibit --
[edit routing-options]
user@router# show
static {
  defaults {
    metric 10;
    preference 10;
  }
  route 10.10.10.0/24 {
    next-hop 192.168.100.1;
    qualified-next-hop 192.168.200.1;
    preference 6;
  }
  metric 8;
}
}
-- Exhibit --
```

Given the configuration shown in the exhibit, which statement is correct about traffic matching the route 10.10.10.0/24?

- A. It will be forwarded to 192.168.100.1 using a metric of 10.
- B. It will be forwarded to 192.168.100.1 using a metric of 8.
- C. It will be forwarded to 192.168.200.1 using a metric of 8.
- D. It will be forwarded to 192.168.200.1 using a metric of 10.

**Correct Answer: C**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

### QUESTION 305

-- Exhibit --

```
user@router> show route
```

```
inet.0: 9 destinations, 9 routes (9 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
```

```
10.10.10.91/32    *[Direct/0] 00:09:40
>via lo0.0
10.10.10.92/32    *[OSPF/10] 00:01:50, metric 1
>to 172.16.1.2 via ge-0/0/2.0
100.100.1.0/24    *[Static/5] 00:01:50
                  Reject
172.16.1.0/24     *[Direct/0] 00:06:09
>via ge-0/0/2.0
172.16.1.1/32     *[Local/0] 00:06:09
                  Local via ge-0/0/2.0
192.168.0.0/16    *[Aggregate/130] 00:00:06
                  Reject
192.168.0.0/17    *[Aggregate/130] 00:00:06
>to 172.16.1.2 via ge-0/0/2.0
192.168.50.0/24   *[Static/5] 00:00:06
>to 172.16.1.2 via ge-0/0/2.0
192.168.51.0/24   *[Static/5] 00:00:06
```

```
>to 172.16.1.2 via ge-0/0/2.0
```

```
user@router> show configuration policy-options
policy-statement demo {
term 1 {
from {
route-filter 192.168.0.0/16 longer accept;
}
then reject;
}
}
```

```
user@router> show configuration protocols ospf
export demo;
area 0.0.0.0 {
interface ge-0/0/2.0;
}
-- Exhibit --
```

Given the configuration and routing table shown in the exhibit, which routes will be advertised to OSPF neighbors because of the demo policy?

- A. 192.168.0.0/16 only
- B. 192.168.0.0/17 only
- C. 192.168.50.0/24 and 192.168.51.0/24
- D. 192.168.0.0/17, 192.168.50.0/24, and 192.168.51.0/24

**Correct Answer: D**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

### QUESTION 306

-- Exhibit --

```
user@router> show route
```

```
inet.0: 9 destinations, 9 routes (9 active, 0 holddown, 0 hidden)
```

```
+ = Active Route, - = Last Active, * = Both
```

```
10.10.10.91/32    *[Direct/0] 00:09:40
>via lo0.0
10.10.10.92/32    *[OSPF/10] 00:01:50, metric 1
>to 172.16.1.2 via ge-0/0/2.0
100.100.1.0/24    *[Static/5] 00:01:50
                  Reject
172.16.1.0/24     *[Direct/0] 00:06:09
>via ge-0/0/2.0
172.16.1.1/32     *[Local/0] 00:06:09
                  Local via ge-0/0/2.0
192.168.0.0/16    *[Aggregate/130] 00:00:06
                  Reject
192.168.0.0/17    *[Aggregate/130] 00:00:06
>to 172.16.1.2 via ge-0/0/2.0
192.168.50.0/24   *[Static/5] 00:00:06
>to 172.16.1.2 via ge-0/0/2.0
```

```
192.168.51.0/24 *[Static/5] 00:00:06
>to 172.16.1.2 via ge-0/0/2.0
```

```
user@router> show configuration policy-options
policy-statement demo {
term 1 {
from {
protocol static;
route-filter 192.168.0.0/16 orlonger accept;
}
then accept;
}
}
```

```
user@router> show configuration protocols ospf
export demo;
area 0.0.0.0 {
interface ge-0/0/2.0;
}
-- Exhibit --
```

Given the configuration and routing table shown in the exhibit, which routes will be advertised to OSPF neighbors because of the demo policy?

- A. 192.168.0.0/16 only
- B. 192.168.50.0/24 only
- C. 192.168.50.0/24 and 192.168.51.0/24
- D. 192.168.0.0/17, 192.168.50.0/24, and 192.168.51.0/24

**Correct Answer: C**

**Section: Volume C**

**Explanation**

**Explanation/Reference:**

#### QUESTION 307

-- Exhibit --

```
user@router> show configuration firewall
family inet {
filter demo {
term example {
from {
source-address {
100.100.100.0/24;
}
destination-address {
200.200.200.0/24;
}
}
then {
reject;
}
}
term testing {
from {
source-address {
```

```

        10.10.10.0/28;
    }
    destination-address {
        200.200.200.0/24;
    }
}
then sample;
}
term results {
    from {
        address {
            200.200.200.0/24;
        }
    }
    then accept;
}
term final {
    then policer LAPD;
}
}
}
-- Exhibit --

```

Given the configuration shown in the exhibit, what will happen to traffic from source 10.10.10.25 destined to 200.200.200.1?

- A. The traffic will be rejected.
- B. The traffic will be dropped.
- C. The traffic will be forwarded.
- D. The traffic will be policed.

**Correct Answer: C**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

#### QUESTION 308

-- Exhibit --

user@router> show route

inet.0: 9 destinations, 9 routes (9 active, 0 holddown, 0 hidden)  
 + = Active Route, - = Last Active, \* = Both

```

10.10.10.91/32    *[Direct/0] 00:09:40
>via lo0.0
10.10.10.92/32    *[OSPF/10] 00:01:50, metric 1
>to 172.16.1.2 via ge-0/0/2.0
100.100.1.0/24    *[Static/5] 00:01:50
                  Reject
172.16.1.0/24     *[Direct/0] 00:06:09
>via ge-0/0/2.0
172.16.1.1/32     *[Local/0] 00:06:09
                  Local via ge-0/0/2.0
192.168.0.0/16    *[Aggregate/130] 00:00:06
                  Reject

```

```
192.168.0.0/17    *[Aggregate/130] 00:00:06
>to 172.16.1.2 via ge-0/0/2.0
192.168.50.0/24  *[Static/5] 00:00:06
>to 172.16.1.2 via ge-0/0/2.0
192.168.51.0/24  *[Static/5] 00:00:06
>to 172.16.1.2 via ge-0/0/2.0
```

```
user@router> show configuration policy-options
policy-statement demo {
term 1 {
from {
protocol aggregate;
route-filter 192.168.0.0/16 longer;
}
then accept;
}
}
```

```
user@router> show configuration protocols ospf
export demo;
area 0.0.0.0 {
interface ge-0/0/2.0;
}
-- Exhibit --
```

Given the configuration and routing table shown in the exhibit, which routes will be advertised to OSPF neighbors because of the demo policy?

- A. 192.168.0.0/16 only
- B. 192.168.0.0/17 only
- C. 192.168.0.0/16 and 192.168.0.0/17
- D. 192.168.0.0/17, 192.168.50.0/24, and 192.168.51.0/24

**Correct Answer: B**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

#### QUESTION 309

-- Exhibit --

```
[edit policy-options]
user@router# show
policy-statementpolicyABC {
term A {
from {
protocol rip;
route-filter 192.168.1.0/24 longer;
}
then accept;
}
}
```

```
[edit protocols ospf]
user@router# show
exportpolicyABC;
area 0.0.0.0 {
interface ge-0/0/0.0;
interface lo0.0;
}
```

-- Exhibit --

Referring to the exhibit, which two statements are true? (Choose two.)

- A. The route 192.168.1.0/25 is accepted.
- B. The route 192.168.2.0/24 is accepted.
- C. OSPF routes will be exported into RIP.
- D. RIP routes will be exported into OSPF.

**Correct Answer:** AD

**Section:** Volume C

**Explanation**

**Explanation/Reference:**

#### QUESTION 310

-- Exhibit --

```
[edit interfaces]
user@router# show
...
lo0 {
unit 0 {
familyinet {
filter {
input protect-loopback;
}
}
address 192.168.100.1/32;
}
}
}
```

-- Exhibit --

Given the configuration shown in the exhibit, what is the function of the protect-loopback filter?

- A. to protect the Routing Engine
- B. to protect all interfaces on the device
- C. to protect the Packet Forwarding Engine
- D. to protect the management interface

**Correct Answer:** A

**Section:** Volume C

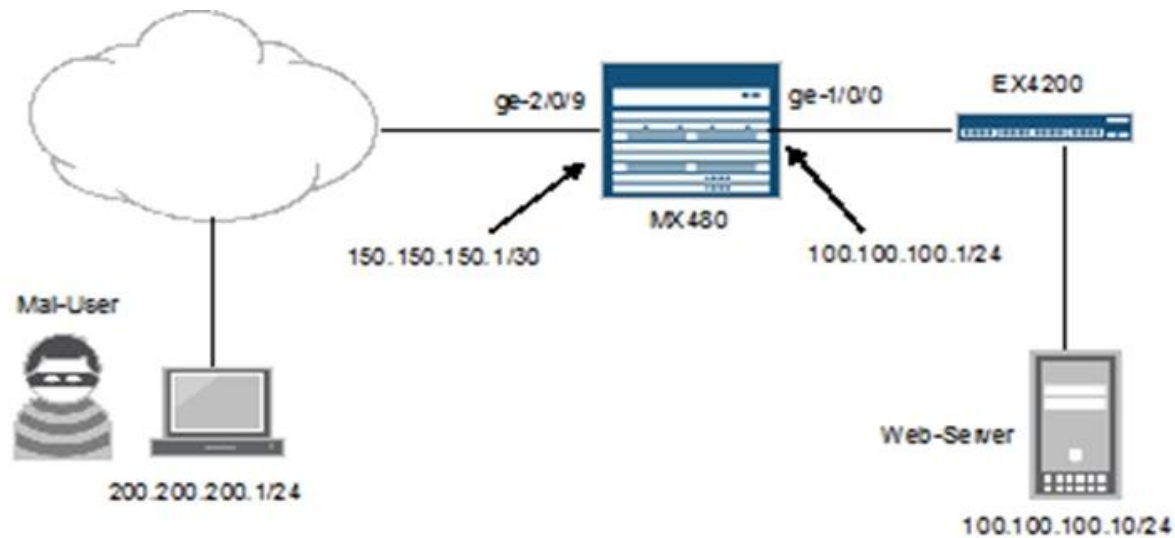
**Explanation**

**Explanation/Reference:**

#### QUESTION 311

-- Exhibit --





-- Exhibit --

Referring to the exhibit, you want to block HTTP access to Web-Server from the subnet where Mal-User is located. All other traffic should be permitted.

Which firewall filter configuration do you use?

A. [edit firewall family inet filter STOP-MAL-USER]

```
user@router# show
term one {
  from {
    source-address {
      200.200.200.0/24;
    }
    destination-address {
      100.100.100.10/32;
    }
  }
  protocol tcp;
  destination-port http;
}
then accept;
}
term two {
  then {
    reject;
  }
}
```

B. [edit firewall family inet filter STOP-MAL-USER]

```
user@router# show
term one {
  from {
    source-address {
      100.100.100.0/24;
    }
    destination-address {
      200.200.200.1/32;
    }
  }
  protocol tcp;
```

```

destination-port http;
    }
then accept;
}
term two {
then {
reject;
}
}

```

C. [edit firewall family inet filter STOP-MAL-USER]

```

user@router# show
term one {
from {
source-address {
    100.100.100.0/24;
}
destination-address {
    200.200.200.1/32;
}
protocoltcp;
destination-port http;
}
then reject;
}
term two {
then {
accept;
}
}
}

```

D. [edit firewall family inet filter STOP-MAL-USER]

```

user@router# show
term one {
from {
source-address {
    200.200.200.0/24;
}
destination-address {
    100.100.100.10/32;
}
protocoltcp;
destination-port http;
}
then reject;
}
term two {
then {
accept;
}
}
}

```

**Correct Answer: D**

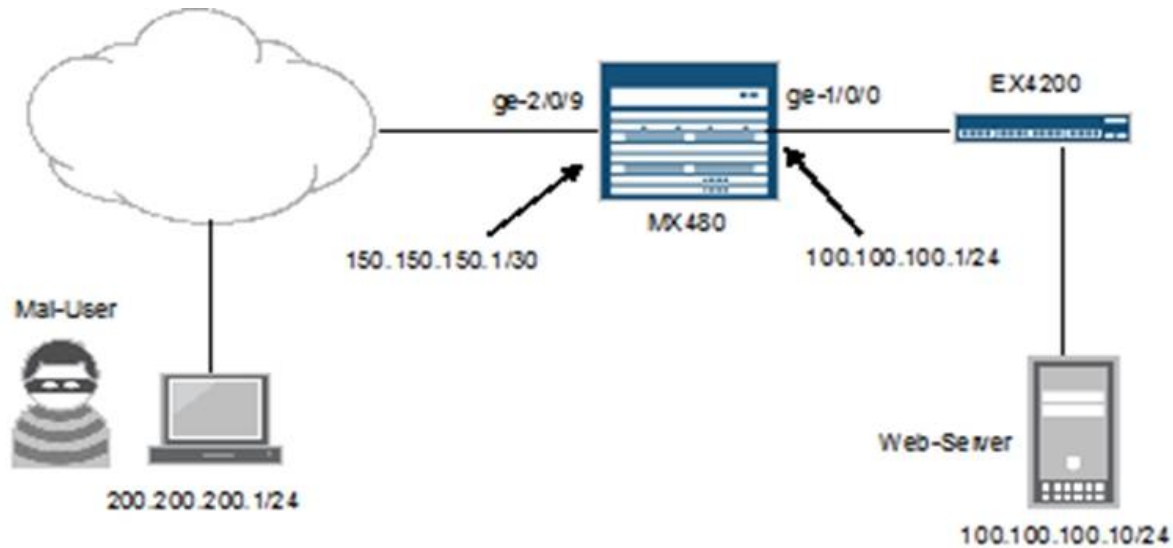
**Section: Volume C**

**Explanation**

**Explanation/Reference:**

**QUESTION 312**

-- Exhibit --



-- Exhibit --

Referring to the exhibit, you are asked to rate-limit traffic from Web-Server to the subnet where Mal-User is located. All other traffic should be permitted.

Which firewall filter configuration do you use?

- A. [edit firewall]  
user@router# show  
policer LIMIT-MAL-USER {  
 if-exceeding {  
 bandwidth-limit 400k;  
 burst-size-limit 100k;  
 }  
 then discard;  
}  
family inet {  
 filter STOP-MAL-USER {  
 term one {  
 from {  
 source-address {  
 100.100.100.10/32;  
 }  
 destination-address {  
 200.200.200.0/24;  
 }  
 }  
 }  
 then policer LIMIT-MAL-USER;  
 }  
 term two {  
 then accept;  
 }  
}
- B. [edit firewall]  
user@router# show  
policer LIMIT-BAD-USER {

```

if-exceeding {
bandwidth-limit 400k;
burst-size-limit 100k;
}
then discard;
}
family inet {
filter STOP-MAL-USER {
term one {
from {
source-address {
100.100.100.10/32;
}
destination-address {
200.200.200.0/24;
}
}
}
then policer LIMIT-MAL-USER;
}
term two {
then accept;
}
}
}

```

C. [edit firewall]  
user@router# show  
policer LIMIT-MAL-USER {  
if-exceeding {  
bandwidth-limit 400k;  
burst-size-limit 100k;  
}  
then discard;  
}  
family inet {  
filter STOP-MAL-USER {  
term one {  
from {  
source-address {  
100.100.100.10/32;  
}  
destination-address {  
200.200.200.0/24;  
}  
}  
}
then policer LIMIT-MAL-USER;  
}  
term two {  
then reject;  
}  
}  
}

D. [edit firewall]  
user@router# show  
policer LIMIT-MAL-USER {  
if-exceeding {  
bandwidth-limit 400k;  
burst-size-limit 100k;  
}

```

then discard;
}
family inet {
filter STOP-MAL-USER {
term one {
from {
source-address {
200.200.200.0/24;
}
destination-address {
100.100.100.10/32;
}
}
}
then policer LIMIT-MAL-USER;
}
term two {
then accept;
}
}
}

```

**Correct Answer: A**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

#### QUESTION 313

-- Exhibit --

```

...
if-exceeding {
bandwidth-limit 1m;
burst-size-limit 3k;
}
then discard;
-- Exhibit --

```

The configuration in the exhibit is associated with which class of service component?

- A. classification
- B. policing
- C. queuing
- D. scheduling

**Correct Answer: B**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

#### QUESTION 314

-- Exhibit --

```

[edit firewall family inet filter COS-CLASSIFIER]
user@router# show

```

```

term MANAGER {
  from {
    source-address {
      192.168.200.0/25;
    }
    destination-address {
      100.100.100.1/32;
    }
  }
  then {
    forwarding-class expedited-forwarding;
    accept;
  }
}
term ALL-OTHER-TRAFFIC {
  then accept;
}

```

```

[edit interfaces ge-0/0/1]
user@router# show
unit 0 {
  family inet {
    filter {
      input COS-CLASSIFIER;
    }
    address 192.168.200.1/24;
  }
}
-- Exhibit --

```

Referring to the exhibit, which type of classifier is being used in this CoS configuration?

- A. behavior aggregate
- B. policer
- C. multifield
- D. forwarding policy

**Correct Answer: C**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

**QUESTION 315**  
 -- Exhibit --

```

[edit class-of-service]
user@router# show
interfaces {
  ge-0/0/2 {
    unit 0 {
      classifiers {
        inet-precedence default;
      }
    }
  }
}

```

```
}  
-- Exhibit --
```

Referring to the exhibit, which type of classifier is being used in this CoS configuration?

- A. behavior aggregate
- B. policer
- C. multifield
- D. forwarding policy

**Correct Answer: A**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

#### QUESTION 316

-- Exhibit --

```
user@router> show route protocol static  
inet.0: 12 destinations, 12 routes (12 active, 0 holddown, 0 hidden)  
+ = Active Route, - = Last Active, * = Both
```

```
192.168.1.128/27 *[Static/5] 00:03:13  
>to 10.20.106.10 via fe-0/0/5.1  
192.168.1.144/29 *[Static/5] 00:03:13  
>to 10.20.14.131 via ge-0/0/0.0  
192.168.1.192/27 *[Static/5] 00:03:13  
>to 10.18.1.1 via ge-0/0/1.0  
192.168.1.128/28 *[Static/5] 00:01:06  
>to 10.20.14.130 via ge-0/0/0.0  
-- Exhibit --
```

Given the routing entries shown in the exhibit, which next-hop IP address will be used for the destination IP address 192.168.1.142? (Assume that only static routes are available for the destination.)

- A. 10.20.106.10
- B. 10.20.14.131
- C. 10.18.1.1
- D. 10.20.14.130

**Correct Answer: D**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

#### QUESTION 317

-- Exhibit --

```
user@router> show route protocol static  
inet.0: 12 destinations, 12 routes (12 active, 0 holddown, 0 hidden)  
+ = Active Route, - = Last Active, * = Both
```

```
192.168.1.128/27 *[Static/5] 00:03:13
>to 10.20.106.10 via fe-0/0/5.1
192.168.1.144/29 *[Static/5] 00:03:13
>to 10.20.14.131 via ge-0/0/0.0
192.168.1.192/27 *[Static/5] 00:03:13
>to 10.18.1.1 via ge-0/0/1.0
192.168.1.128/28 *[Static/5] 00:01:06
>to 10.20.14.130 via ge-0/0/0.0
-- Exhibit --
```

Given the routing entries shown in the exhibit, which next-hop IP address will be used for the destination IP address 192.168.1.159? (Assume that only static routes are available for the destination.)

- A. 10.20.14.130
- B. 10.18.1.1
- C. 10.20.14.131
- D. 10.20.106.10

**Correct Answer: D**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**

#### QUESTION 318

-- Exhibit --

```
user@router> show route protocol static
inet.0: 12 destinations, 12 routes (12 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
```

```
192.168.1.0/24 *[Static/5] 00:03:13
>to 10.20.106.10 via fe-0/0/5.1
192.168.1.192/26 *[Static/5] 00:03:13
>to 10.20.14.131 via ge-0/0/0.0
192.168.1.192/27 *[Static/5] 00:03:13
>to 10.18.1.1 via ge-0/0/1.0
192.168.1.4/30 *[Static/5] 00:01:06
>to 10.20.14.130 via ge-0/0/0.0
-- Exhibit --
```

Using the routing table shown in the exhibit, what will be the next-hop IP address used for a destination IP address of 192.168.1.1? (Assume that the only routes to this destination are static routes.)

- A. 10.20.14.130
- B. 10.18.1.1
- C. 10.20.14.131
- D. 10.20.106.10

**Correct Answer: D**  
**Section: Volume C**  
**Explanation**

**Explanation/Reference:**



**QUESTION 319**

What are the usable hosts on the 192.168.1.24/29 network?

- A. .24 through .48
- B. .24 through .32
- C. .25 through .30
- D. .35 through .31

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

The minimum host address is 192.168.1.25, and the maximum host address is 192.168.1.30.

References: <http://jodies.de/ipcalc?host=192.168.1.24&mask1=29&mask2=>

**QUESTION 320**

Which two are correct when configuring an IP address for a Fast Ethernet interface? (Choose two.)

- A. set interfaces fe-0/0/0 address 10.1.1.1/24
- B. set interfaces fe-0/0/0.0 family inet address 10.1.1.1/24
- C. set interfaces fe-0/0/0 address 10.1.1.1/24
- D. set interfaces fe-0/0/0 unit 0 family inet address 10.1.1.1/24

**Correct Answer:** BD

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

D: The following configuration is sufficient to get a Fast Ethernet interface up and running. By default, IPv4 Fast Ethernet interfaces use Ethernet version 2 encapsulation.

[edit]

user@host# set interfaces fe-5/2/1 unit 0 family inet address local-address

B: You can also omit the unit specification, here unit 0, and set the ip address through the command:  
set interfaces fe-0/0/0.0 family inet address local-address

References: [http://www.juniper.net/documentation/en\\_US/junos12.3/topics/example/interfaces-configuring-fast-ethernet-interfaces.html](http://www.juniper.net/documentation/en_US/junos12.3/topics/example/interfaces-configuring-fast-ethernet-interfaces.html)

**QUESTION 321**

After factory-defaults have been loaded, which two syslog files will be present in the configuration?

- A. system and chassis
- B. syslog-messages and NVRAM
- C. messages and interactive-commands
- D. authorization and events

**Correct Answer:** C

**Section:** Volume D

## Explanation

### Explanation/Reference:

Factory default syslog files include messages and interactive-commands.

Example: The following factory default configuration file is for a Juniper EX3200 switch:

```
system {
  syslog {
    user * {
      any emergency;
    }
    file messages {
      any notice;
      authorization info;
    }
    file interactive-commands {
      interactive-commands any;
    }
  }
}
etc,
```

References: [http://www.juniper.net/documentation/en\\_US/junos14.1/topics/reference/general/ex3200-default-configuration.html](http://www.juniper.net/documentation/en_US/junos14.1/topics/reference/general/ex3200-default-configuration.html)

## QUESTION 322

Which of the following commands will configure the maximum transmission unit size of a fast Ethernet interface?

- A. set interfaces fe-0/0/0 unit 0 ethernet-options mtu 1200
- B. set interfaces fe-0/0/0 mtu 1200
- C. set interfaces fe-0/0/0 unit 0 mtu 1200
- D. set interfaces fe-0/0/0.0 mtu 1200

**Correct Answer: C**

**Section: Volume D**

### Explanation

### Explanation/Reference:

Example 1: Reset the MTU size to 1492 at the fe-0/0/2 interface.

[edit]

user@srx# set interfaces fe-0/0/2 unit 0 family inet mtu 1492

Example 2: To change the family ISO MTU to 1492 use the following command:

Juniper# set interfaces ge-1/0/2 unit 0 family iso mtu 1492

References: [https://www.juniper.net/techpubs/en\\_US/release-independent/ncf/information-products/topic-collections/ncf/ncf0097-small-office-for-hd-video/small-office-for-hd-video.pdf](https://www.juniper.net/techpubs/en_US/release-independent/ncf/information-products/topic-collections/ncf/ncf0097-small-office-for-hd-video/small-office-for-hd-video.pdf)

## QUESTION 323

What information does the help topic command provide?

- A. router's version and serial number to help open a case with JTAC
- B. software documentation describing features and configuration tasks within JUNOS
- C. a brief description of commands and their default values

D. a verification of the current configuration on the router

**Correct Answer:** B

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

The help topic command displays usage guidelines for the statement based on information that appears in the Junos OS configuration guides.

Incorrect Answers:

C: This is done by the help reference command, which displays summary information about the statement based on the summary descriptions that appear in the Junos OS configuration guides.

References: [http://www.juniper.net/documentation/en\\_US/junos16.1/topics/concept/junos-cli-online-help-access-overview.html](http://www.juniper.net/documentation/en_US/junos16.1/topics/concept/junos-cli-online-help-access-overview.html)

### QUESTION 324

Which two statements about subnet masks are true? (Choose two.)

- A. If a bit is turned on (1), the corresponding bit in the IP address is used for the host portion.
- B. If a bit is turned off (0), the corresponding bit in the IP address is used for the host portion.
- C. If a bit is turned on (1), the corresponding bit in the IP address is used for the network prefix.
- D. If a bit is turned off (0), the corresponding bit in the IP address is used for the network prefix.

**Correct Answer:** BC

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Example: 255.0.0.0 (Class A network), in binary 11111111.00000000. 00000000. 00000000

The leftmost octet, 11111111, represents the network prefix, while the other three octets, with zeroes, represent the host portion.

References: [http://www.akadia.com/services/ip\\_routing\\_on\\_subnets.html](http://www.akadia.com/services/ip_routing_on_subnets.html)

### QUESTION 325

Which statement is correct about logical units on Juniper Router interfaces?

- A. Logical units are used only when a Layer 2 identifier is present such as a VLAN.
- B. A logical unit of 0 is required when using a frame-relay DLCI.
- C. A logical unit is always required.
- D. Logical units are not required unless ATM or 802.1Q VLAN tagging is configured.

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Many router vendors refer to a logical unit as a subinterface; they do not require a subinterface on every physical interface, whereas a Juniper Networks router does.

Note: All router interfaces that will send and receive transit traffic require a logical unit to be configured. This logical unit creates a division of the physical interface into multiple parts.

References: <https://www.safaribooksonline.com/library/view/junos-enterprise-routing/9781449309633/ch04s03.html>

#### QUESTION 326

Which two options are reasons for using traffic classification? (Choose two.)

- A. to use the classification to route traffic
- B. to use the classification to reorder packets from various sources
- C. to use the classification to discard malformed packets
- D. to use the classification to provide the configured service level

**Correct Answer:** AD

**Section:** Volume D

**Explanation**

#### **Explanation/Reference:**

Classification entails using a traffic descriptor to categorize a packet within a specific group to define that packet and make it accessible for QoS handling on the network. Using packet classification, you can partition network traffic into multiple priority levels or classes of service.

References: [https://www.cisco.com/c/en/us/td/docs/ios/12\\_2/qos/configuration/guide/tqos\\_c/qcfcclass.pdf](https://www.cisco.com/c/en/us/td/docs/ios/12_2/qos/configuration/guide/tqos_c/qcfcclass.pdf)

#### QUESTION 327

Which three SONET network elements are used for troubleshooting? (Choose three.)

- A. line
- B. path
- C. circuit
- D. section
- E. segment

**Correct Answer:** ABD

**Section:** Volume D

**Explanation**

#### **Explanation/Reference:**

Section, line, and path errors occur over different spans of the SONET network and between different pieces of equipment.

References: [http://www.juniper.net/documentation/en\\_US/junos15.1/topics/topic-map/sonet-interfaces-alarms-and-errors.html](http://www.juniper.net/documentation/en_US/junos15.1/topics/topic-map/sonet-interfaces-alarms-and-errors.html)

#### QUESTION 328

Which application would be suited for UDP traffic?

- A. Web browsing
- B. downloading a program
- C. streaming television shows
- D. on-line shopping

**Correct Answer:** C

**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

UDP flows would be appropriate for streaming Video shows.

Incorrect Answers:

A: Web browsing would be using both the UDP and the TCP protocols.

B: Downloading a program would make use of the FTP protocol, which uses both UDP and TCP.

References: [https://en.wikipedia.org/wiki/List\\_of\\_TCP\\_and\\_UDP\\_port\\_numbers](https://en.wikipedia.org/wiki/List_of_TCP_and_UDP_port_numbers)  
<http://signatures.juniper.net/documentation/applications/Multimedia%3AVideo-Streaming%3APPSTREAM-4-UDP.html>

**QUESTION 329**

When you display the routing table by entering the show route command, what does the \* indicate?

- A. The route is a direct route.
- B. The route was selected as active.
- C. The route is a default route.
- D. The route was learned using a dynamic routing protocol.

**Correct Answer: B**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**

An asterisk (\*) indicates that the route is both the active and the last active route. An asterisk before a to line indicates the best subpath to the route.

References: [https://www.juniper.net/documentation/en\\_US/junos14.1/topics/reference/command-summary/show-route-detail.html](https://www.juniper.net/documentation/en_US/junos14.1/topics/reference/command-summary/show-route-detail.html)

**QUESTION 330**

Which two loopback types are supported for serial interfaces on Juniper devices? (Choose two.)

- A. Local
- B. Far End
- C. Remote
- D. Bidirectional

**Correct Answer: AC**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**

For serial interfaces Juniper devices support the local and the remote loopback types.

References: [http://www.juniper.net/documentation/en\\_US/junos12.3/topics/usage-guidelines/interfaces-interface-diagnostics.html](http://www.juniper.net/documentation/en_US/junos12.3/topics/usage-guidelines/interfaces-interface-diagnostics.html)

**QUESTION 331**

Which command is a valid way to view the status of an interface?

- A. > show interfaces fe-0/0/0 extensive
- B. > show interfaces fe-0/0/0 status
- C. > show interfaces fe-0/0/0 health-info
- D. > show interfaces fe-0/0/0 verbose

**Correct Answer:** A

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

You can get the information from "show interface <interface\_name> extensive"

References: <https://forums.juniper.net/t5/Ethernet-Switching/Any-Command-like-as-cisco-s-quot-show-interface-status-quot/td-p/4596>

### QUESTION 332

Given the host IP address of 192.168.100.60 and a network mask of 255.255.255.224 (or /27), which address represents the correct network address for the referenced host?

- A. 192.168.100.48
- B. 192.168.100.16
- C. 192.168.100.0
- D. 192.168.100.32

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Network is a class C network: 192.168.100.32/27

Binary: 11000000.10101000.01100100.001 00000

References: <http://jodies.de/ipcalc?host=192.168.100.60&mask1=27&mask2=>

### QUESTION 333

Which command configures an address of 192.168.1.1 with a mask of 255.255.255.0 on interface ge-0/0/0?

- A. set ip interface ge-0/0/0 address 192.168.1.1 255.255.255.0
- B. set ip interface ge-0/0/0 address 192.168.1.1/24
- C. set interface ge-0/0/0 ip4 address 192.168.1.1 mask 255.255.255.0
- D. set interfaces ge-0/0/0 unit 0 family inet address 192.168.1.1/24

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

The following configuration is sufficient to get a Fast Ethernet interface up and running. By default, IPv4 Fast Ethernet interfaces use Ethernet version 2 encapsulation.

[edit]

user@host# set interfaces fe-5/2/1 unit 0 family inet address local-address

References: [http://www.juniper.net/documentation/en\\_US/junos12.3/topics/example/interfaces-configuring-fast-ethernet-interfaces.html](http://www.juniper.net/documentation/en_US/junos12.3/topics/example/interfaces-configuring-fast-ethernet-interfaces.html)

#### QUESTION 334

Which two protocols are connection-oriented? (Choose two.)

- A. Ethernet
- B. PPP
- C. TCP
- D. UDP

**Correct Answer:** BC

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Point-to-Point Protocol (PPP) and Transmission Control Protocol (TCP) are a connection-oriented protocols.

References: <http://searchnetworking.techtarget.com/definition/connection-oriented>

#### QUESTION 335

Which statement is correct about the validate option when upgrading JUNOS software?

- A. It will check the MD5 checksum of the install package.
- B. It will check if the device meets the memory requirements for the install package.
- C. It will check the compatibility of the configuration with the install package.
- D. It will check if the device meets the storage requirement for the install package.

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

When you upgrade or downgrade Junos OS, we recommend that you include the validate option with the request system software add command to check that the candidate software is compatible with the current configuration. By default, when you add a package with a different release number, the validation check is done automatically.

References: [https://www.juniper.net/techpubs/en\\_US/junos12.3/topics/task/operational/junos-candidate-software-compatibility-verifying.html](https://www.juniper.net/techpubs/en_US/junos12.3/topics/task/operational/junos-candidate-software-compatibility-verifying.html)

#### QUESTION 336

What are three advantages which dynamic routing protocols offer over static routing protocols? (Choose three.)

- A. lower administrative overhead
- B. increased network availability
- C. greater network scalability
- D. easier to implement qualified next hops
- E. easier ECMP route implementation

**Correct Answer:** ABC

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Dynamic routing protocols help the network administrator manage the time-consuming and exacting process of configuring and maintaining static routes.

Dynamic routing automatically adapts topology to reroute traffic if possible.

Dynamic routing is generally independent of the network size.

References: <http://www.ciscopress.com/articles/article.asp?p=2180210&seqNum=5>

### QUESTION 337

When troubleshooting ATM, which command would allow you to test reachability from one side of an ATM cloud to the other?

- A. ping atm vci 0.100 interface at-0/1/0 end-to-end
- B. ping atm vci 0.100 interface at-0/1/0 circuit
- C. ping atm vci 0.100 interface at-0/1/0 far-end
- D. ping atm vci 0.100 interface at-0/1/0 final-hop

**Correct Answer:** A

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

ping atm syntax:

Syntax

ping atm interface interface-name vci vci

<brief>

<count count>

<end-to-end | segment>

<interval seconds>

<sequence-number sequence-number>

References: [http://www.juniper.net/documentation/en\\_US/junos13.3/topics/reference/command-summary/ping-atm.html](http://www.juniper.net/documentation/en_US/junos13.3/topics/reference/command-summary/ping-atm.html)

### QUESTION 338

Which command will display the temperature of the Routing Engine's CPU?

- A. show chassis environment
- B. show chassis routing-engine
- C. show chassis temperatures
- D. show chassis status

**Correct Answer:** B

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

The output fields for the show chassis routing-engine command include:

\* Temperature: Temperature of the air flowing past the Routing Engine.



References: [https://www.juniper.net/documentation/en\\_US/junos11.4/topics/reference/command-summary/show-chassis-routing-engine.html](https://www.juniper.net/documentation/en_US/junos11.4/topics/reference/command-summary/show-chassis-routing-engine.html)

#### QUESTION 339

Which command would correctly define a router's host-name?

- A. # set ip host-name <name>
- B. > set ip host-name <name>
- C. # set system host-name <name>
- D. > set system host-name <name>

**Correct Answer: C**

**Section: Volume D**

**Explanation**

#### Explanation/Reference:

Configure the hostname, using the set system host-name command.

[edit]

user@host# set system host-name newton-re0

References: [http://www.juniper.net/techpubs/en\\_US/junos15.1/topics/example/router-name-domain-name-ip-address-system-id-configuring.html](http://www.juniper.net/techpubs/en_US/junos15.1/topics/example/router-name-domain-name-ip-address-system-id-configuring.html)

#### QUESTION 340

You have been asked to use a 28 bit subnet mask to segment the following network block: 108.12.5.0. How many usable hosts per sub-net could you create?

- A. 10 hosts
- B. 14 hosts
- C. 12 hosts
- D. 16 hosts

**Correct Answer: B**

**Section: Volume D**

**Explanation**

#### Explanation/Reference:

Network: 108.12.5.0/28 (Class A)

Broadcast: 108.12.5.15

HostMin: 108.12.5.1

HostMax: 108.12.5.14

Hosts/Net: 14

References: <http://jodies.de/ipcalc?host=108.12.5.0&mask1=28&mask2=>

#### QUESTION 341

In Ethernet networks, duplex mismatches will lower performance. Which error statistics can be seen if a duplex mismatch is present?

- A. collisions on the full-duplex side; runts on the half-duplex side
- B. collisions on the full-duplex side; collisions on the half-duplex side
- C. collisions on the half-duplex side; framing errors on the full-duplex side

D. collisions on the half-duplex side; giants on the full-duplex side

**Correct Answer:** C  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

On an Ethernet connection, a duplex mismatch is a condition where two connected devices operate in different duplex modes, that is, one operates in half duplex while the other one operates in full duplex. This results in the full-duplex side receiving an incomplete frame with CRC error or a runt frame. It does not detect any collision since CSMA/CD is disabled on the full-duplex side. As a result, when both devices are attempting to transmit at (nearly) the same time, the packet sent by the full-duplex end will be discarded and lost due to an assumed collision and the packet sent by the half duplex device will be delayed or lost due to a CRC error in the frame.

References: [https://en.wikipedia.org/wiki/Duplex\\_mismatch](https://en.wikipedia.org/wiki/Duplex_mismatch)

**QUESTION 342**

What is correct regarding the configuration shown below?

```
static route 0.0.0.0/0 qualified-next-hop 172.30.25.1 preference 7 next-hop 172.30.25.5
```

- A. The next-hop 172.30.25.1 is selected because the address has the lowest value.
- B. The next-hop 172.30.25.1 is selected because it is listed first.
- C. The next-hop 172.30.25.1 is selected because it is the lowest protocol preference.
- D. The next-hop 172.30.25.5 is selected because it is the lowest protocol preference.

**Correct Answer:** D  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

The routes with a lower route preference are always used to route traffic. Preference 5 is the default preference for static routes.

References: [https://www.juniper.net/documentation/en\\_US/junos15.1/topics/concept/routing-protocol-static-security-route-preference-and-qualified-next-hop-understanding.html](https://www.juniper.net/documentation/en_US/junos15.1/topics/concept/routing-protocol-static-security-route-preference-and-qualified-next-hop-understanding.html)

**QUESTION 343**

After issuing the show interfaces terse command, you notice that the status of one interface is "up down". What does this indicate?

- A. Layer 1 on the interface is up but Layer 2 is down.
- B. Layer 2 on the interface is up but Layer 3 has not been configured.
- C. The interface is administratively up but the link status is down.
- D. The interface is up but has been administratively turned off.

**Correct Answer:** C  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

The the administratively status is displayed in column 1, and the link status is displayed in column 2. Example:

```

user@host> show interfaces terse t1*
Interface    Admin Link Proto Local          Remote
t1-1/0/0     down up --- administratively disabled
t1-1/0/0.0   up  down inet 1.1.1.1/30
t1-1/0/1     up  down --- physical layer down

```

References: [http://www.juniper.net/documentation/en\\_US/junos15.1/topics/task/verification/t1-status-displaying.html](http://www.juniper.net/documentation/en_US/junos15.1/topics/task/verification/t1-status-displaying.html)

#### QUESTION 344

How many host addresses are available in the 172.27.0.0/28 network?

- A. 6
- B. 30
- C. 28
- D. 14

**Correct Answer: D**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**

#### QUESTION 345

-- Exhibit --

```

[edit interfaces ge-0/0/1]
user@router# show
unit 100 {
  vlan-id 100;
  family inet {
    address 10.1.1.1 /24;
  }
}

```

```

[edit interfaces ge-0/0/1]
user@router# commit check
[edit interfaces ge-0/0/1]
'unit 100'
Only unit 0 is valid for this encapsulation
error: configuration check-out failed
-- Exhibit --

```

Referring to the exhibit, you are unable to commit the configuration for the ge-0/0/1 interface.

What must you do to commit the configuration?

- A. You must set the encapsulation vlan-ccc parameter under the [edit interfaces ge-0/0/1 unit 100] hierarchy.
- B. You must set the vlan-tagging parameter under the [edit interfaces ge-0/0/1] hierarchy.
- C. You must use the rename command to change unit 100 to unit 0.
- D. You must set the encapsulation flexible-ethernet-services parameter under the [edit interfaces ge-0/0/1] hierarchy.

**Correct Answer: B**

**Section: Volume D**

**Explanation****Explanation/Reference:****QUESTION 346**

The marketing team needs access to a server on a subnet 172.0.46.0/24. The next-hop router is 10.0.4.2/30. A static route on their gateway has been configured to accomplish the task. You want to keep the static route from being redistributed into dynamic routing protocols.

Which command will satisfy this requirement?

- A. Set routing-options static route 172.0.46.0/24 next-hop 10.0.4.2/30 no-resolve
- B. Set routing-options static route 172.0.46.0/24 next-hop 10.0.4.2/30
- C. Set routing-options static route 172.0.46.0/24 next-hop 10.0.4.2/30 no-readvertise
- D. Set routing-options static route 172.0.46.0/24 next-hop 10.0.4.2/30 no-redistribute

**Correct Answer: C**

**Section: Volume D**

**Explanation****Explanation/Reference:****QUESTION 347**

Which Junos release would address only bug fixes that were not contained in the 15.1R1 version of code?

- A. 15.1R2
- B. 15.1X2
- C. 15.1S2
- D. 15.1F2

**Correct Answer: A**

**Section: Volume D**

**Explanation****Explanation/Reference:****QUESTION 348**

Which command causes the Junos OS temporarily activate a configuration?

- A. commit check
- B. commit synchronize
- C. commit confirmed
- D. commit and-quit

**Correct Answer: C**

**Section: Volume D**

**Explanation****Explanation/Reference:****QUESTION 349**

Click the Exhibit button.

```
user@router>show bfd session detail
Address          State      Interface    Detect time    Transmit Interval

Multiplier
172.16.1.2      Up        ge-1/2/0.0    3.000         1.000         3
  Client Static, TX interval 1.000, RX interval 1.000, Authenticate
  Session up time 00:53:58
  Local diagnostic NbrSignal, remote diagnostic None
  Remote state Up, version 1
  Logical system 9, routing table index 22
1 sessions, 1 clients
Cumulative transmit rate 1.0 pps, cumulative receive rate 1.0 pps
```

Referring to the exhibit, which statement is true?

- A. The customer's link will failover in nine seconds.
- B. the customer has not enabled security for BFD.
- C. The customer has set the version parameter to automatic.
- D. The customer's link flapped within the last hour.

**Correct Answer: D**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**

#### QUESTION 350

What are three valid software release designations for the Junos OS? (Choose three.)

- A. B
- B. T
- C. X
- D. R
- E. Z

**Correct Answer: ACD**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**

#### QUESTION 351

What are three acceptable modifiers to a terminating action of a firewall filter? (Choose three.)

- A. Policer
- B. Count
- C. Syslog
- D. Log

E. Discard

**Correct Answer:** ABD

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 352**

Which CIDR notation is the equivalent of the subnet mask of 255.255.192.0?

- A. /18
- B. /19
- C. /17
- D. /20

**Correct Answer:** A

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 353**

Which two commands will provide the current configuration of the MX1-PE1 BGP group on your router? (Choose two.)

- A. user@router# show groups | display set | match MX1-PE1
- B. user@router> show configuration | display set | match MX1-PE1
- C. user@router> show configuration | match set | match MX1-PE1
- D. user@router# show | display set | match MX1-PE1

**Correct Answer:** BD

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 354**

Which command is used to validate the syntax of a configuration without applying the configuration?

- A. commit confirmed
- B. commit synchronize
- C. commit check
- D. commit and-quit

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 355**

Which parameter must be included when executing operational mode commands from within configuration mode?

- A. insert
- B. do
- C. prompt
- D. run

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 356**

Which two statements about the Junos OS are true? (Choose two.)

- A. It supports Java for automation on all platforms.
- B. It uses the same software source code base for all platforms.
- C. It uses a different software source code base for each platform.
- D. It supports XML for automation on all platforms.

**Correct Answer:** BD

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 357**

Which two firewall filter actions will affect a packet's class-of-service settings? (Choose two.)

- A. Forwarding-class
- B. Scheduler
- C. Queue
- D. Loss-priority

**Correct Answer:** AD

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 358**

What does the "3" in Junos version 14.2R3.2 represent?

- A. A service build number
- B. A single-threaded version of the Junos OS
- C. A major release number
- D. A minor release number

**Correct Answer:** A  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

Explanation:

In this example, we dissect the format of the software release number to show what it indicates. The generalized format is as follows:

Given the format of  
m.nZb.s

The software release number 17.2R1.13, for example, maps to this format as follows:

m is the main release number of the product, for example, 17.

n is the minor release number of the product, for example, 2.

Z is the type of software release, for example, R for FRS or maintenance release.

b is the build number of the product, for example, 1, indicating the FRS rather than a maintenance release..

s is the spin number of the product, for example, 13.

Reference: [https://www.juniper.net/documentation/en\\_US/junos/topics/topic-map/junos-os-installation-packages.html](https://www.juniper.net/documentation/en_US/junos/topics/topic-map/junos-os-installation-packages.html)

**QUESTION 359**

Click the Exhibit button.



```
[edit]
user@router# show firewall
filter count-no-header {
    term 1 {
        from {
            protocol no-next-header;
        }
        then {
            count count-no-header;
            accept;
        }
    }
}

[edit]
user@router# show interfaces ge-0/0/0
unit 0 {
    family inet {
        address 10.10.10.3/24;
    }
    family inet6 {
        filter {
            input count-no-header;
        }
        address 2001::1/64;
    }
}
```

```
[edit]
user@router# commit
[edit interfaces ge-0/0/0 unit 0 family inet6]
'filter'
    Referenced filter 'count-no-header' is not defined
error: configuration check-out failed
```

You are asked to create a firewall filter to count IPv6 packets that arrive with a no next header value. As shown in the exhibit, you have created and applied the count-no-header firewall filter to the ge-0/0/0 interface. The commit operation fails.

What is causing this problem?

- A. The firewall term does not include inet6 in the from statement.
- B. IPv6 interfaces do not support firewall filters.
- C. The filter name must be different than the counter name.

D. The firewall family is not correct.

**Correct Answer:** D  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

**QUESTION 360**

Which set of IP addresses are in the same subnet?

- A. 185.114.16.59/28 and 185.114.16.64/28
- B. 185.114.16.91/28 and 185.114.16.96/28
- C. 185.114.16.77/28 and 185.114.16.82/28
- D. 185.114.16.40/28 and 185.114.16.45/28

**Correct Answer:** D  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

**QUESTION 361**

Which IP protocol number is assigned to TCP?

- A. 17
- B. 4
- C. 18
- D. 6

**Correct Answer:** D  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

**QUESTION 362**

Which three protocols are connectionless? (Choose three.)

- A. DNS
- B. TFTP
- C. ICMP
- D. SSH
- E. Telnet

**Correct Answer:** ABC  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

**QUESTION 363**

What are three benefits of using a dynamic routing protocol? (Choose three.)

- A. Increased network security
- B. Decreased network latency
- C. Increased network availability
- D. Lower administrative overhead
- E. Greater network scalability

**Correct Answer:** CDE

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 364**

Which statement is true when using the allow command and deny command attributes when creating user permissions?

- A. If you allow and deny the same commands, the Junos OS will fail the commit check.
- B. If you allow and deny the same commands, the allow command permissions take precedence over the deny command permissions.
- C. If you specify a regular expression for allow and deny with two variants of a command, both will be ignored.
- D. The all login class permission bits take precedence over allow and deny when a user issues the rollback command.

**Correct Answer:** B

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 365**

What is the default firewall filter behavior when a term is matched but no terminating action is specified?

- A. An implicit deny and the filter evaluation continues to the next term
- B. An implicit accept and the filter evaluation continues to the next term
- C. An implicit accept and the filter evaluation terminates
- D. An implicit deny and the filter evaluation terminates

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 366**

What is the network ID address of the IPv4 subnet that includes the IP address 114.180.192.120/28?

- A. 114.180.192.100/28
- B. 114.180.192.118/28
- C. 114.180.192.112/28
- D. 114.180.192.106/28

**Correct Answer: C**  
**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

**QUESTION 367**

Which process is responsible for controlling all interfaces on a Junos device?

- A. rpd
- B. chassisd
- C. mgd
- D. dcd

**Correct Answer: D**  
**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

**QUESTION 368**

Click the exhibit button.

```
[edit protocol ospf]
user@router# show
traceoptions {
    file ospf-trace size 64k files 5 no-world-readable;
    flag event detail;
    flag error detail;
}
area 0.0.0.0 {
    interface ge-0/0/0.0;
    interface ge-0/0/1.0;
}
```

Which statement is correct regarding the configuration shown in the exhibit?

- A. When the ospf-trace file has created five files, it will stop logging additional information.
- B. When the ospf-trace file reaches the 64 KB file size, it is renamed and begins a new file.
- C. Timestamp information will not be included for each line of ospf-trace output.
- D. The ospf-trace file will automatically replace any existing trace file with the same name.

**Correct Answer:** B  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

**QUESTION 369**

Which statement is true about PFEs?

- A. A PFE receives hardware status messages from the RE.
- B. A PFE receives microcode updates from the RE.
- C. A PFE receives environmental status messages from the RE.
- D. A PFE receives layer 4 forwarding table updates from the RE.

**Correct Answer:** B  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

**QUESTION 370**

What are three characteristics of Layer 2 switches? (Choose three.)

- A. Layer 2 switches forward broadcast traffic.
- B. Layer 2 switches forward traffic addresses to hosts that reside on the same collision domain.
- C. Layer 2 switches separate multicast domains.
- D. Layer 2 switches separate collision domains.
- E. Layer 2 switches forward traffic addressed to hosts that reside on a different collision domain.

**Correct Answer:** ABD  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

**QUESTION 371**

You must archive log messages for an extended period of time for audit and troubleshooting purposes.

Which syslog setting should you configure on the Junos device in this scenario?

- A. severity
- B. facility
- C. host
- D. console

**Correct Answer:** C  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

**QUESTION 372**

You have configured logging to the console port but are uncertain of the impact to the device with troubleshooting.

In this scenario, which command would allow you to minimize the impact?

- A. set system syslog console any none
- B. set system syslog log-rotate-frequency 15
- C. commit confirmed 1 comment troubleshoot
- D. commit synchronize comment troubleshoot

**Correct Answer:** A

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 373**

Which three statements are true about IPv6 link local addresses? (Choose three.)

- A. They begin with the prefix fe80::/64.
- B. They are optional addresses.
- C. They provide reachability to the Internet.
- D. They are not guaranteed to be unique outside of the network segment.
- E. They can be assigned manually or dynamically.

**Correct Answer:** ADE

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 374**

Which two ping command parameters would be used to troubleshoot MTU issues? (Choose two.)

- A. ping <destination> size
- B. ping <destination> rapid
- C. ping <destination> verbose
- D. ping <destination> do-not-fragment

**Correct Answer:** AD

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 375**

Which two statements describe the default behavior for OSPF? (Choose two.)

- A. OSPF imports all routes into the inet.0 routing table.

- B. OSPF exports all static routes into the OSPF database.
- C. OSPF does not export static routes into the OSPF database.
- D. OSPF imports all routes into the inet4.0 routing table.

**Correct Answer:** AC

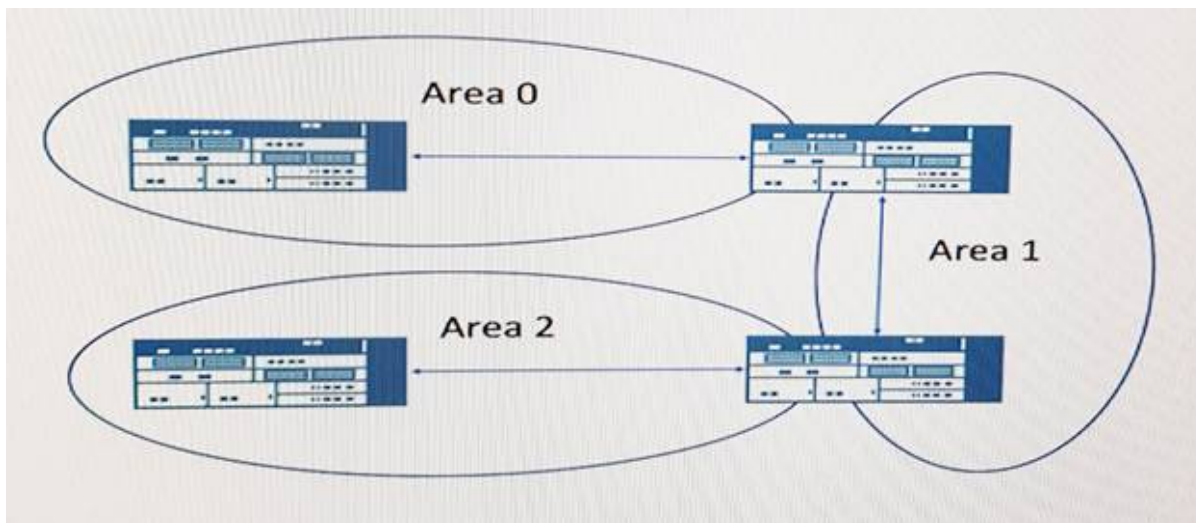
**Section:** Volume D

**Explanation**

**Explanation/Reference:**

#### QUESTION 376

Click the Exhibit button.



Referring to the exhibit, which OSPF feature would connect Area 0 to Area 2?

- A. Route summarization
- B. Database synchronization
- C. Equal-cost multipath
- D. Virtual link

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

#### QUESTION 377

Which command allows you to view the raw packet data of interface ge-1/0/5?

- A. Show interface ge-1/0/5 media
- B. Monitor interface traffic ge-1/0/5
- C. Show interface ge-1/0/5 extensive
- D. Monitor traffic interface ge-1/0/5

**Correct Answer:** D

**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

**QUESTION 378**

Click the Exhibit button.

```
user@router> show route forwarding-table
Routing table: inet
Internet:
Destination      Type  RtRef  Next hop      Type  Index  NhRef  Netif
default          user  0      0:32.51.07.89.2 ucst   520    3 ge-
0/0/0.0
default          perm  0                      rjct   36     1
0.0.0.0/32       perm  0                      dscd   34     1
10.21.0.0/16     user  0      192.168.10.100 ucst   535    3 ge-0/0/2.0
10.21.14.0/24   user  0      192.168.11.100 ucst   528    3 ge-0/0/1.0
10.21.14.10/30  user  0      192.168.12.100 ucst   530    3 ge-0/0/3.0
```

Referring to the exhibit, which next-hop interface will be used to reach the 10.21.14.16 destination?

- A. ge-0/0/3.0
- B. ge-0/0/0.0
- C. ge-0/0/2.0
- D. ge-0/0/1.0

**Correct Answer: D**  
**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

**QUESTION 379**

Click the Exhibit button.



```

[edit firewall family inet]
user@router# show
filter protect-RE-1 {
    term 1 {
        from {
            protocol icmp;
        }
        then accept;
    }
}
filter protect-RE-2 {
    term 1 {
        from {
            protocol icmp;
        }
        then reject;
    }
}

[edit interfaces lo0]
user@router# show
unit 0 {
    family inet {
        filter {
            input-list [protect- RE-1 protect-RE-2];
        }
        address 192.168.2.1/32;
    }
}

[edit interfaces ge-0/0/0]
user@router# show
description "Management Interface";
unit 0 {
    family inet {
        address 172.25.11.2/24;
    }
}

```

Referring to the exhibit, what happens when ping packets are sent to the management interface address of the local router?

A. The ping packets are silently discarded.

- B. The ping packets are accepted.
- C. An ICMP redirect messages is returned.
- D. An ICMP error message is returned.

**Correct Answer:** B

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos/topics/concept/firewall-filter-ex-series-evaluation-understanding.html](https://www.juniper.net/documentation/en_US/junos/topics/concept/firewall-filter-ex-series-evaluation-understanding.html)

#### QUESTION 380

The PFE receives which two tables from the RE? (Choose two.)

- A. Layer 2 forwarding table
- B. Layer 4 forwarding table
- C. Layer 3 forwarding table
- D. Layer 5 forwarding table

**Correct Answer:** AC

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

#### QUESTION 381

Click the Exhibit.

```
[edit system ntp]
user@router# show
boot-server 172.25.11.254;
```

Referring to the exhibit, which action would synchronize a new router's clock with the NTP server?

- A. Reboot the router.
- B. Configure the correct NTP trusted key using the set trusted-key <key-value> configuration command under the [edit system ntp] hierarchy.
- C. Issue the set date ntp operational command.
- D. Configure the NTP server using the set server 172.25.11.254 configuration command under the [edit system ntp] hierarchy.

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

#### QUESTION 382

Which statement is true about default route preferences?

- A. OSPF AS external is lower than OSPF internal.
- B. IBGP is lower than EBGP.
- C. RIP is lower than RIPng.
- D. Direct is lower than static.

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

#### **QUESTION 383**

What are two examples of exception traffic? (Choose two.)

- A. SFTP traffic that enters one interface and is destined for a local physical interface.
- B. SFTP traffic that enters and exits the same interface on the local router.
- C. SCP traffic that enters one interface and exits another interface on the local router.
- D. SCP traffic that is destined for the router's loopback interface.

**Correct Answer:** AD

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

#### **QUESTION 384**

Which keystroke combination allows users to move the cursor to the beginning of the command line without deleting text?

- A. Ctrl + w
- B. Ctrl + a
- C. Ctrl + b
- D. Ctrl + u

**Correct Answer:** B

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

#### **QUESTION 385**

What are three interface prefixes for a 40-gigabit interface? (Choose three.)

- A. xe
- B. es
- C. et
- D. fte
- E. xle

**Correct Answer:** CDE

**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

**QUESTION 386**

Host A is communicating with Host B through a Layer 2 switch.

What is the highest layer that the switch will inspect the traffic in this scenario?

- A. Transport
- B. Session
- C. Data Link
- D. Network

**Correct Answer: C**

**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

**QUESTION 387**

Click the Exhibit.

```
[edit]
user@router# show interfaces
ge-0/0/2 {
  unit 0 {
    family inet {
      address 172.17.23.10/30;
    }
  }
}
```

Your Junos device is using the configuration shown in the exhibit. You notice that the 172.17.23.10/30 address is incorrect and should be 172.17.23.9/30.

What are two commands that would solve this problem? (Choose two.)

- A. [edit interfaces]  
user@router# set ge-0/0/2.0 family inet address 172.17.23.9
- B. [edit interfaces]  
user@router# replace pattern 172.17.23.10 with 172.17.23.9
- C. [edit interfaces]  
user@router# rename ge-0/0/2.0 family inet address 172.17.23.10/30 to address 172.17.23.9/30
- D. [edit interfaces]  
user@router# delete ge-0/0/2.0 family inet address 172.17.23.10

**Correct Answer: BC**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**

**QUESTION 388**

What is the subnet mask for the 172.45.32.6/19 address?

- A. 255.255.240.0
- B. 255.224.0.0
- C. 255.255.224.0
- D. 255.240.0.0

**Correct Answer: C**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**

**QUESTION 389**

You have enabled trace options to log error messages. You want to have the messages displayed to your terminal session automatically as they occur.

Which command should you use in this scenario?

- A. file list
- B. request message terminal
- C. file show
- D. monitor start

**Correct Answer: D**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**

**QUESTION 390**

You are performing the initial configuration of an SRX Series device.

What must you set before the device will allow you to commit your configuration?

- A. System time
- B. Root authentication
- C. Hostname
- D. Management interface

**Correct Answer: B**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**

**QUESTION 391**

What are three Application Layer protocols? (Choose three.)

- A. FTP
- B. HTTP
- C. TCP
- D. ATM
- E. DNS

**Correct Answer:** ABE

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 392**

What are two protocols that the Junos OS uses to archive configuration files remotely? (Choose two.)

- A. SFTP
- B. SCP
- C. HTTP
- D. FTP

**Correct Answer:** BD

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 393**

Which two statements are correct about the request system zeroize local command? (Choose two.)

- A. The command removes all data files.
- B. The command preserves the management interface addresses.
- C. The command resets all key values.
- D. The command removes all user-created files from the system.

**Correct Answer:** CD

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 394**

You have configuration groups applied on your router.

Which command would you use to see all components of the interface hierarchy?

- A. show configuration interfaces | display inheritance
- B. show configuration interfaces | display changed

- C. show configuration interfaces | display set
- D. show configuration interfaces | display detail

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

#### **QUESTION 395**

You must configure the 2bfc:0000:0000:beef:0217:cbff:0000:5c85 IPv6 address on your device.

In this scenario, which three addresses are correct? (Choose three.)

- A. 2BFC::BEEF:217:CBFF::5C85
- B. 2BFC::BEEF:217:CBFF:0:5C85
- C. 2bfc:0:beef:0217:cbff:0:5c85
- D. 2bfc:0:0:beef:0217:cbff:0:5c85
- E. 2BFC::BEEF:0217CBFF:0:5C85

**Correct Answer:** BDE

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

#### **QUESTION 396**

What is the name of the volume containing the software and files used for the day-to-day operation of a device using Junos with upgraded FreeBSD?

- A. /oam
- B. /active
- C. /var
- D. /junos

**Correct Answer:** D

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

#### **QUESTION 397**

Which source of routing information is preferred by default?

- A. BGP
- B. RIP
- C. direct
- D. static

**Correct Answer:** C

**Section:** Volume D

## Explanation

### Explanation/Reference:

## QUESTION 398

Click the Exhibit.

```
set routing-options static route 166.74.67.131/32 qualified-next-hop  
166.113.123.37 interface irb.222  
set routing-options static route 166.74.67.131/32 community 3251:0789  
set routing-options static route 166.74.68.132/32 qualified-next-hop  
166.113.122.33 interface irb.111  
set routing-options static route 166.74.68.132/32 community 3251:0789
```

Your configuration contains the static routes shown in the exhibit.

Which command will successfully remove the 166.74.67.131 static route?

- A. delete routing-options static route 166.74.67.131/32 qualified- next-hop 166.113.123.37 interface irb.222
- B. delete routing-options static route 166.74.67.131/32 qualified-next-hop
- C. delete routing-options static route 166.74.67.131/32
- D. delete routing-options static route 166.74.67.131/32 qualified-next-hop 166.113.123.37

**Correct Answer: C**

**Section: Volume D**

## Explanation

### Explanation/Reference:

## QUESTION 399

Click the Exhibit



```

user@router> show rip statistics

RIPv2 info: port 520; holddown 120s.
    rts learned    rts held down    rqsts dropped    resps dropped
      0             0             0             0
fe-1/2/0.1: 0 routes learned; 0 routes advertised; timeout 180s; update
interval 30s
Counter              Total              Last 5 min              Last minute
-----
Updates Sent          2669              0              0
Triggered Updates Sent      2              0              0
Responses Sent          0              0              0
Bad Messages           0              0              0
RIPv1 Updates Received     0              0              0
RIPv1 Bad Route Entries    0              0              0
RIPv1 Updates Ignored      0              0              0
RIPv2 Updates Received    2675              0              0
RIPv2 Bad Route Entries    0              0              0
RIPv2 Updates Ignored      0              0              0
Authentication Failures     0             11              2
RIP Requests Received      0              0              0
RIP Requests Ignored        0              0              0
none                       0              0              0

```

A customer reports that they have recently lost connectivity to a remote site over a shared architecture.

Referring to the exhibit, what is the problem?

- A. The authentication method or key has been changed.
- B. The remote link is down.
- C. The remote router has been powered off.
- D. The remote site router has been configured for OSPF.

**Correct Answer: A**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**

#### QUESTION 400

You recently uploaded a new software package to your Junos device and you want to ensure that the file uploaded successfully by verifying the file size.

In this scenario, which command should you use?

- A. file show encoding
- B. file compare
- C. file checksum sha1
- D. file list detail

**Correct Answer: D**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**

**QUESTION 401**

Which two statements are correct about the inet.0 routing table? (Choose two.)

- A. It stores information learned from routing protocols and other sources.
- B. It is used for populating the forwarding policy.
- C. It is used for populating the forwarding table.
- D. It is used for populating the Ethernet switching table.

**Correct Answer:** AC

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 402**

You suspect a duplicate MAC address on a subnet. You want to display the MAC, errors, and statistics of the ge-0/0/0 interface.

Which command will accomplish this task?

- A. show arp
- B. show Ethernet-switching table
- C. show interface ge-0/0/0 extensive
- D. show interface terse

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 403**

Which statement is correct regarding exception traffic on Junos devices?

- A. The built-in rate limiter for exception Traffic is configurable.
- B. The Junos OS has a built-in rate limiter for exception traffic.
- C. The Junos OS does not provide congestion control for exception traffic sent to the RE.
- D. All exception traffic destined for the RE is sent over the out-of-band management link.

**Correct Answer:** B

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 404**

Which command would initiate a loopback on a Gigabit Ethernet interface ge-0/0/0?

- A. # set interfaces ge-0/0/0 unit 0 loopback
- B. # set interfaces ge-0/0/0 gigether-options loopback

- C. > set interfaces ge-0/0/0 loopback
- D. > loopback ge-0/0/0

**Correct Answer: B**  
**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 405**

What represents the decimal equivalence of 10101100 00011111 11001001 11000101?

- A. 172.28.187.189
- B. 172.31.201.197
- C. 172.30.231.182
- D. 172.19.151.107

**Correct Answer: B**  
**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 406**

Which command would allow you to compare two files stored on your router?

- A. user@host> file show filename1 compare filename2
- B. user@host> file compare files filename1 filename2
- C. user@host> compare files filename1 filename 2
- D. user@host> compare filename1 filename2

**Correct Answer: B**  
**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 407**

You are configuring a firewall filter.

Which "from" criterion would match only those packets destined for 10.10.10.1?

- A. [edit firewall filter test]  
root@router# set term 1 from address 10.10.10.1
- B. [edit firewall filter test]  
root@router# set term 1 from destination-address 10.10.10.1
- C. [edit firewall filter test]  
root@router# set term 1 from destination 10.10.10.1
- D. [edit firewall filter test]  
root@router# set term 1 from ip-prefix 10.10.10.1

**Correct Answer: B**  
**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

**QUESTION 408**

What is the default local location for syslog and trace files?

- A. /log
- B. /home/log
- C. /var/log
- D. /etc/log

**Correct Answer: C**  
**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

**QUESTION 409**

A router has been configured with the settings shown below: [edit] user@host# show system authentication-order authentication-order [ radius tacplus ]; The router also has a local database that contains the user lab with password lab123. Suppose a user enters the username lab and the password lab123.

What would happen if both the RADIUS and the TACACS servers are not accessible?

- A. The user lab will not be able to login.
- B. The user lab will be authenticated against the local database and will be able to login.
- C. The user lab will receive an error message indicating the router is unable to authenticate due to the authentication servers not responding.
- D. The user will be able to login only if tries to login as the root user.

**Correct Answer: B**  
**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

**QUESTION 410**

Which type of routes are held in Inet.0?

- A. multicast and unicast IPv4 routes
- B. ARP tables and MAC reachability
- C. IP version 4 unicast routes
- D. IP version 6 and IP version 4 routes

**Correct Answer: C**  
**Section: Volume D**  
**Explanation**

**Explanation/Reference:**

**QUESTION 411**

Which naming convention is used by Juniper Routers when archiving their configurations to a remote server?

- A. yyyyymmdd\_HHMMSS\_host-name\_juniper.conf.gz
- B. host-name\_juniper.conf.gz\_yyyyymmdd\_HHMMSS
- C. yyyyymmdd\_HHMMSS\_host-name\_juniper.conf
- D. host-name\_juniper.conf\_yyyyymmdd\_HHMMSS

**Correct Answer:** B

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 412**

Which two of the following items does a scheduler map associate with each other? (Choose two.)

- A. Scheduler
- B. BA Classifier
- C. Forwarding class
- D. Rewrite rule

**Correct Answer:** AC

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

**QUESTION 413**

What is the default protocol preference for OSPF external routes?

- A. 10
- B. 15
- C. 150
- D. 160

**Correct Answer:** C

**Section:** Volume D

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos/topics/reference/general/routing-protocols-default-route-preference-values.html](https://www.juniper.net/documentation/en_US/junos/topics/reference/general/routing-protocols-default-route-preference-values.html)

**QUESTION 414**

Which command would correctly set a router's date and time?

- A. # set date 199708290900.00
- B. # set system time 199708290900.00

- C. > set date 199708290900.00
- D. > set system time 199708290900.00

**Correct Answer:** C  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos/topics/task/operational/junos-time-date-setting.html](https://www.juniper.net/documentation/en_US/junos/topics/task/operational/junos-time-date-setting.html)

#### **QUESTION 415**

Where are files queued for transmission when using the configuration archive transfer-on-commit function?

- A. /var/config
- B. /var/queue
- C. /var/transfer/queue
- D. /var/transfer/config

**Correct Answer:** D  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 416**

When is the BA Classifier engaged for identifying the forwarding class of traffic in a Juniper router?

- A. after a packet is identified by a multifield classifier
- B. after the traffic passes through a shaper
- C. prior to ingress policing of traffic
- D. while the packet is stored in the switching fabric of the router

**Correct Answer:** C  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 417**

What are the contents of a scheduler?

- A. A scheduler contains parameters that describe how a queue should be serviced.
- B. A scheduler contains traffic that is ready to be transmitted.
- C. A scheduler contains forwarding classes that allow traffic to be forwarded.
- D. A scheduler contains a map between the classification of a packet and its forwarding class.

**Correct Answer:** A  
**Section:** Volume D  
**Explanation**

**Explanation/Reference:**

**QUESTION 418**

Click to the exhibit. You have the policy configuration shown in the exhibit applied to your BGP peering. You find that your customer routes coming from the 10.1.1.0/24 network are being rejected.

```
[edit policy-options policy-statement my-policy]
user@router# show
term 1 {
  from {
    route-filter 10.0.0.0/8 orlonger;
  }
  then reject;
}
term 2 {
  from {
    route-filter 10.1.1.0/24 exact;
    route-filter 10.1.1.0/24 orlonger;
  }
  then accept;
}
```

Which command should be used to correct the problem?

- A. [edit policy-options policy-statement my-policy]  
user@router# insert term 1 before term 2
- B. [edit policy-options policy-statement my-policy]  
user@router# rename term 1 to term 3
- C. [edit policy-options policy-statement my-policy]  
user@router# copy term 2 to term 0
- D. [edit policy-options policy-statement my-policy]  
user@router# insert term 2 before term 1

**Correct Answer: D**

**Section: Volume D**

**Explanation**

**Explanation/Reference:**