

Juniper

Exam Questions JN0-105

Junos - Associate (JNCIA-Junos) 2024 Exam



NEW QUESTION 1

Which statement is correct when multiple users are configuring a Junos device using the configure private command?

- A. A commit by any user will commit changes made by all active users.
- B. A commit will not succeed until there is only a single user in configuration mode.
- C. Each user gets their own candidate configuration.
- D. Each user shares the same candidate configuration.

Answer: C

Explanation:

When multiple users are configuring a Junos device using the "configure private" command, each user gets their own candidate configuration (C). This allows for isolated configuration sessions, where changes made by one user do not impact or interfere with the changes made by another user in their private session.

NEW QUESTION 2

What are two advantages of using the Junos OS? (Choose two.)

- A. It enables you to roll back to a previous configuration.
- B. It pushes your configuration changes "live" immediately.
- C. It is modular.
- D. It supports up to a maximum of two previous configurations.

Answer: AC

Explanation:

One of the key advantages of Junos OS is its ability to roll back to previous configurations. This feature allows administrators to revert to an earlier configuration state, which is invaluable for quickly recovering from configuration errors or undesired changes. Junos OS maintains an archive of previous configurations, enabling easy rollback to any saved state. Another significant advantage of Junos OS is its modular design. The operating system is structured so that different processes and services run in separate protected memory spaces, enhancing the stability and reliability of the system. If one process fails, it does not affect the others, thereby minimizing the risk of system-wide failures.

NEW QUESTION 3

What are two attributes of the UDP protocol? (Choose two.)

- A. UDP is more reliable than TCP.
- B. UDP is always slower than TCP.
- C. UDP is best effort.
- D. UDP is connectionless.

Answer: CD

Explanation:

UDP (User Datagram Protocol) is known for being connectionless (D) and providing best-effort delivery without the reliability mechanisms present in TCP (C). This means that UDP does not establish a connection before sending data and does not guarantee delivery, order, or error checking, making it faster but less reliable than TCP.

NEW QUESTION 4

You configured your system authentication order using the set authentication-order tacplus radius password command. Which statement is correct in this scenario?

- A. A rejection by TACACS+ will prevent a login and bypass the other two authentication methods.
- B. The password authentication will only be used if the TACACS+ and RADIUS servers fail to respond.
- C. All authentication methods are used with the most restrictive permission set used.
- D. The password authentication method is evaluated if the TACACS+ and RADIUS servers respond with a reject message.

Answer: B

Explanation:

In the scenario where the system authentication order is set to "tacplus radius password," the correct statement is (B). If the TACACS+ and RADIUS servers are unreachable or fail to respond, the system will fall back to using password authentication. This ensures that users can still authenticate using locally stored passwords if external authentication servers are unavailable.

NEW QUESTION 5

Which process in the Junos OS is responsible for maintaining routing protocols and tables?

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

Answer: C

Explanation:

The Routing Protocol Daemon (rpd) in Junos OS is responsible for maintaining routing protocols and tables. It handles all routing information, including the

calculation of routes and the population of the routing table, making it crucial for dynamic routing operations.

NEW QUESTION 6

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

- A. Candidate configuration changes are automatically applied.
- B. You can deploy multiple changes at the same time.
- C. Multiple users cannot modify the same candidate configuration.
- D. You can discard changes before committing them.

Answer: BD

Explanation:

The candidate configuration in Junos OS is a temporary configuration that allows network administrators to make and stage multiple configuration changes before applying them to the device. This approach enables the deployment of multiple changes in a single operation, ensuring that all configurations work together as intended before making them active. Additionally, the candidate configuration can be discarded if the administrator decides not to apply the staged changes, allowing for a "trial and error" approach without affecting the currently active configuration. This feature provides flexibility and reduces the risk of disruptive changes to the network.

NEW QUESTION 7

After the factory default configuration is loaded, which configuration object must be created prior to the first commit?

- A. root authentication
- B. loopback IP address
- C. out-of-band connectivity
- D. host name

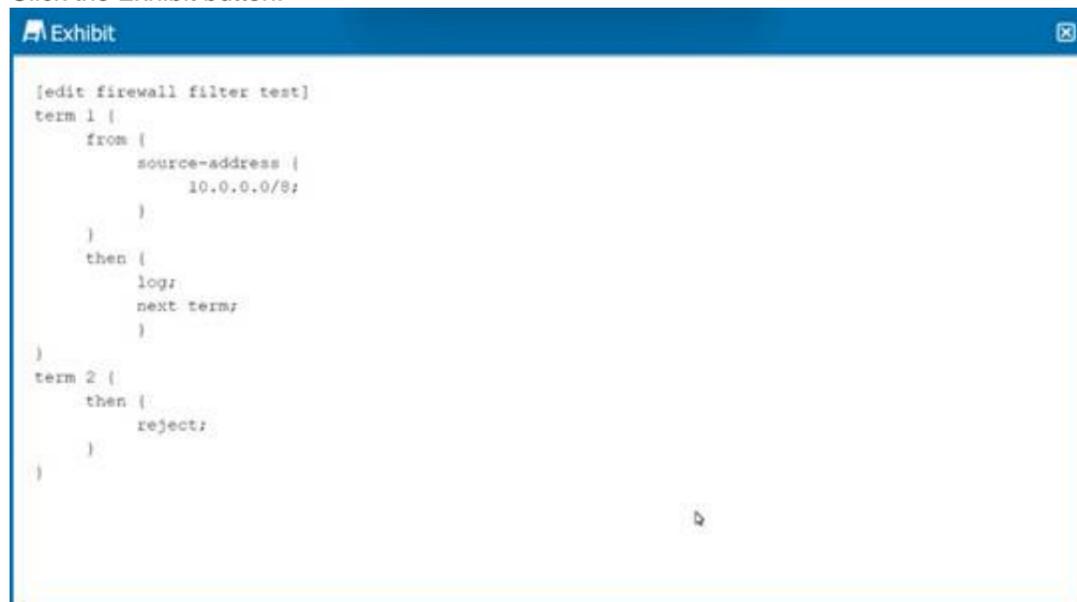
Answer: A

Explanation:

In Juniper Networks devices, when the factory default configuration is loaded, the first step before committing any configuration is to set up root authentication. This is crucial because it secures the device by ensuring that only authorized users have administrative access. Without setting up a root password, the device will not allow any commit operations, which is a safety measure to prevent unauthorized access. This requirement emphasizes the importance Juniper places on security right from the initial setup of the device.

NEW QUESTION 8

Click the Exhibit button.



```
[edit firewall filter test]
term 1 {
  from {
    source-address {
      10.0.0.0/8;
    }
  }
  then {
    log;
    next term;
  }
}
term 2 {
  then {
    reject;
  }
}
```

How is traffic, sourced from 10.0.0.0/8, treated by the firewall filter shown in the exhibit?

- A. logged and discarded
- B. logged and rejected
- C. logged with no further action
- D. logged and accepted

Answer: D

Explanation:

The firewall filter configuration in the exhibit specifies a filter with two terms. Term 1 matches traffic from the source address 10.0.0.0/8 and has two actions: 'log' and 'next term'. The 'log' action will record the match to a log file, and 'next term' indicates that the firewall should evaluate the next term after logging. There is no explicit action such as 'accept' or 'reject' in term 1, so by default, the traffic will be accepted unless subsequently rejected by another term. Term 2 has the action 'reject', which discards packets that reach this term. Since there is no 'from' condition in term 2, it acts as a default rule for all traffic not matched by term 1. Because the traffic sourced from 10.0.0.0/8 matches term 1 and there is no reject action in that term, it will be logged and then accepted by the firewall filter. There is no subsequent term that rejects this specific traffic, so the action from term 2 does not apply to it.

NEW QUESTION 9

Which character is used to filter the command output in the Junos CLI?

- A. |
- B. >
- C. <

D. ?

Answer: A

Explanation:

In the Junos CLI, the pipe character | is used as a filter operator to refine command output. This operator can be combined with various filtering commands like match, except, count, etc., to display only the relevant portions of the command output. For example, using | match <pattern> filters the output to show only the lines that contain the specified pattern, making it easier to find specific information within extensive command output. This functionality is especially useful in managing and troubleshooting complex configurations and network states, allowing for more efficient analysis of the device's operational status and configuration details.

NEW QUESTION 10

Which layer of the OSI model contains the IP address information?

- A. Layer 2
- B. Layer 3
- C. Layer 1
- D. Layer 4

Answer: B

Explanation:

The OSI (Open Systems Interconnection) model is a conceptual framework used to understand network interactions in seven distinct layers. IP (Internet Protocol) addresses are part of Layer 3, known as the Network Layer. This layer is responsible for packet forwarding, including routing through intermediate routers, and it handles the logical addressing scheme of the network to ensure that packets can be routed across multiple networks and reach their destination. IP addresses provide unique identifiers for network interfaces, allowing for communication between devices on a network or across different networks.

NEW QUESTION 10

Exhibit

```
term limit-icmp { from { source-address { 172.25.11.0/24;
}
}
protocol icmp;
}
then {
count count-icmp; discard;
}
}
```

Referring to the exhibit, which two actions will occur when a packet matches the firewall filter? (Choose two.)

- A. An ICMP destination unreachable message will be returned.
- B. The packet will be forwarded.
- C. The packet will be discarded.
- D. A counter will be incremented.

Answer: C

Explanation:

Referring to the firewall filter configuration in the exhibit, when a packet matches the specified term limit-icmp, two actions are defined in the then statement: count count-icmp and discard. The count count-icmp action means that each time a packet matches this term, a counter named count-icmp will be incremented, providing a tally of how many packets have matched the term. The discard action means that the packet will be dropped and not forwarded through the device. This effectively prevents the packet from reaching its intended destination. There is no action specified that would cause an ICMP destination unreachable message to be returned, nor is there any action that would allow the packet to be forwarded.

NEW QUESTION 15

Which command displays all IPv6 routes in the default routing instance?

- A. showroute table inet.0
- B. showroute table inet6.1
- C. showroute table inet.1
- D. showroute table inet6.0

Answer: D

Explanation:

The show route table inet6.0 command displays all IPv6 routes in the default routing instance. In Junos OS, the routing table for IPv6 addresses is referred to as inet6.0, whereas inet.0 is used for IPv4 unicast routes. The other options do not correspond to the correct IPv6 routing table.

References:

? Juniper official documentation: Junos OS Routing Tables Overview.

NEW QUESTION 19

What does the user@router> clear log ospf-trace command accomplish?

- A. Logging data into ospf-trace is stopped.
- B. Trace parameters are removed from the OSPF protocol configuration.
- C. Data in the ospf-trace file is removed and logging continues.
- D. The ospf-trace file is deleted.

Answer: C

Explanation:

The clear log ospf-trace command on a Juniper Networks router is used specifically to manage the contents of the log file named ospf-trace. Executing this command clears or deletes the existing data within the ospf-trace log file but does not stop the logging process. The router continues to log new OSPF-related events and data into this file after the command is executed. This functionality is crucial for troubleshooting and monitoring the OSPF (Open Shortest Path First) protocol's operation by allowing network administrators to remove old or irrelevant log data while continuously capturing new events without interruption.

NEW QUESTION 24

What will the request system configuration rescue save command do?

- A. It saves the most recently committed configuration as the rescue configuration.
- B. It saves the candidate configuration as the rescue configuration.
- C. It saves a configuration version prior to the configuration most recently committed as the rescue configuration.
- D. It activates the rescue configuration.

Answer: A

Explanation:

The request system configuration rescue save command in Junos OS saves the most recently committed configuration as the rescue configuration. This rescue configuration can be used to recover the device if future configurations cause issues. It ensures there is a stable, known-good configuration to fall back on, which is crucial in network management and troubleshooting.

References:

- ? "rescue : save configurations as the rescue: request system configuration save(saves the current configs as a rescue configs)" from Useful Juniper Commands.txt.
- ? Juniper official documentation: Configuring and Activating a Rescue Configuration.

NEW QUESTION 25

Exhibit

```
user@router> show route 192.168.36.1
inet.O: 5 destinations, 6 routes (5 active, 0 holddown, 0 hidden) + = Active Route, - = Last Active, * = Both 192.168.36.1/32 *[Static/5] 00:00:31
> to 10.1.1.2 via ge-0/0/10.0 [OSPF/IO] 00:02:21, metric 1 > to 10.1.1.2 via ge-0/0/10.0
Referring to the exhibit, which route(s) will be selected by Junos for packet forwarding?
```

- A. The OSPF route will be selected.
- B. The static route will be selected.
- C. The Junos OS randomly selects one route.
- D. The Junos OS selects both routes.

Answer: B

Explanation:

Junos OS selects routes based on the route preference (also known as administrative distance). Static routes typically have a lower route preference than OSPF routes, meaning they are more preferred. Since the static route to 192.168.36.1/32 is shown with a preference of 5, it will be selected over the OSPF route for packet forwarding, assuming no other factors such as route filters or policies affect the routing decision.

NEW QUESTION 28

Exhibit

```
Exhibit
[edit]
root# set system host-name TEST_DEVICE [edit]
root# commit
[edit]
'system'
Missing mandatory statement: 'root-authentication' error: commit failed: (missing mandatory statements) [edit] root#
You are configuring a new device.
Which action solves the error shown in the exhibit?
```

- A. configuring a non-root username and password
- B. configuring a password for the root account
- C. loading the factory-default configuration
- D. reinstalling Junos

Answer: B

Explanation:

The error message in the exhibit indicates that the root-authentication statement is missing, which is mandatory for committing the configuration. In Junos OS, it is required to set a password for the root account to commit any configuration changes. This is a security measure to ensure that unauthorized users cannot access the device's configuration mode. To solve the error shown in the exhibit, configuring a password for the root account is necessary. This can be done by using the set system root-authentication plain-text-password command, after which the user will be prompted to enter a new password for the root account.

NEW QUESTION 32

What is the protocol data unit (PDU) of the Data Link Layer?

- A. segment
- B. byte
- C. frame
- D. bit

Answer: C

Explanation:

In the OSI model, the Data Link Layer is responsible for node-to-node delivery of data. It frames the packets received from the Network Layer and prepares them for physical transmission. The Protocol Data Unit (PDU) for the Data Link Layer is called a "frame." Frames encapsulate the network layer packets, adding a header and a trailer that include the hardware addresses of the source and destination, among other things, facilitating the data link layer services like frame synchronization, flow control, and error checking.

NEW QUESTION 34

You are logged in to a Junos OS device with SSH and issued the show protocols | compare command in the configuration, but no output is shown. Which statement is correct in this scenario?

- A. The command only works for interface configuration differences.
- B. There are no changes to the candidate configuration.
- C. Someone accidentally deleted the active configuration.
- D. You must commit the configuration before any output will be shown.

Answer: B

Explanation:

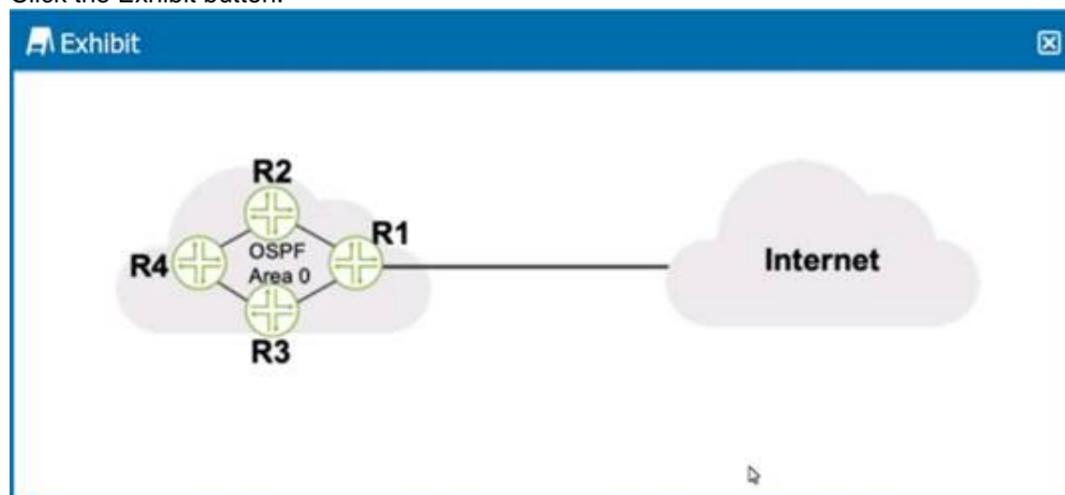
The show | compare command in Junos OS is used to display the differences between the candidate configuration and the active configuration. If no output is shown when you issue this command, it means that there are no changes between the candidate configuration and the active configuration. This indicates that the candidate configuration is identical to the active configuration, and thus no differences are displayed.

Reference: Juniper Networks Documentation on Configuration Management

"The show | compare command displays the differences between the candidate configuration and the active configuration. If there are no changes, no output is displayed."

NEW QUESTION 36

Click the Exhibit button.



Referring to the exhibit, what should be configured on R1 to advertise a default static route into OSPF?

- A. a firewall filter
- B. a routing policy
- C. a loopback interface
- D. a management interface

Answer: B

Explanation:

To advertise a default static route into OSPF on router R1, a routing policy should be configured. This policy would typically include a statement to match the default route (0.0.0.0/0) and then apply an action to set the route as an OSPF external type, which would then be redistributed into the OSPF domain. The routing policy is a set of conditions and actions that determine how routes are imported into or exported from the routing table and how routes are shared between routing instances or routing protocols. After defining the policy, it must be applied to OSPF under the export section of the OSPF configuration on R1. This process will allow R1 to announce the default route to other OSPF routers in the network, which then can use it as a gateway of last resort to reach the Internet or other networks not explicitly known to the OSPF domain.

NEW QUESTION 37

What are two benefits when implementing class of service? (Choose two.)

- A. The network will be faster.
- B. Traffic congestion can be managed.
- C. Traffic congestion will be eliminated.
- D. Latency-sensitive traffic can be prioritized

Answer: CD

Explanation:

Implementing Class of Service (CoS) in a network provides numerous benefits, particularly in managing traffic based on its importance, source, or type. CoS enables network administrators to manage traffic congestion by applying various queuing techniques and policies to ensure that critical services remain unaffected during high congestion periods. Additionally, CoS allows for the prioritization of latency-sensitive traffic such as voice and video, ensuring that these services maintain quality despite varying network conditions.

NEW QUESTION 39

Which two components are included in a transport header? (Choose two.)

- A. destination port number
- B. source MAC address
- C. source port number
- D. destination MAC address

Answer: AC

Explanation:

The transport layer in the OSI model is responsible for end-to-end communication and error recovery. In a transport header, such as TCP or UDP, the key components include the source port number and the destination port number. These port numbers are used to identify sending and receiving applications. The source port number indicates the port of the sending application, and the destination port number refers to the port of the receiving application. MAC addresses, on the other hand, are part of the data link layer (Layer 2) and would be included in an Ethernet header, not a transport header.

NEW QUESTION 43

What are two types of transit traffic that traverse the forwarding plane of a Layer 3 router? (Choose two.)

- A. unicast traffic
- B. multicast traffic
- C. exception traffic
- D. broadcast traffic

Answer: AB

Explanation:

Transit traffic that traverses the forwarding plane of a Layer 3 router includes both unicast and multicast traffic types. Unicast traffic is directed from a single source to a single destination, while multicast traffic is sent from one source to multiple destinations that are part of a multicast group. These types of traffic are efficiently routed through the network by leveraging the router's forwarding plane capabilities. Exception traffic, which requires special handling by the control plane, and broadcast traffic, which is typically limited to a single broadcast domain and not usually forwarded by Layer 3 routers, are not considered standard types of transit traffic for the forwarding plane of a router.

NEW QUESTION 47

Click the Exhibit button.

```

R2> ping 10.23.0.3
PING 10.23.0.3 (10.23.0.3): 56 data bytes
64 bytes from 10.23.0.3: icmp_seq=0 ttl=64 time=2.654 ms
64 bytes from 10.23.0.3: icmp_seq=1 ttl=64 time=2.673 ms
64 bytes from 10.23.0.3: icmp_seq=2 ttl=64 time=2.229 ms
^C
--- 10.23.0.3 ping statistics ---
3 packets transmitted, 3 packets received, 0% packet loss
round-trip min/avg/max/stddev = 2.229/2.519/2.673/0.205 ms
    
```

Referring to the exhibit, what is the source IP address of the ping that was executed?

- A. 10.12.0.2
- B. 10.23.0.2
- C. 10.23.0.3
- D. 10.24.0.4

Answer: B

Explanation:

The exhibit shows a ping test being executed from router R2 to the IP address 10.23.0.3. Since the ping command is issued on R2 and we see successful replies from 10.23.0.3, it means the source of the ping must be an interface on R2. Given the network diagram and the IP address scheme, the source IP address of the ping is on the interface ge-0/0/2 of R2, which is in the subnet 10.23.0.0/24. The only logical IP address for R2's interface in this subnet, based on standard networking practices and the given options, would be 10.23.0.2. The other addresses provided in the options belong to different subnets or are the destination of the ping itself.

NEW QUESTION 49

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

- A. Routing tables are stored in the control plane.
- B. Exception traffic is never sent to the control plane.
- C. Exception traffic is sent to the control plane.
- D. Routing tables are stored in the forwarding plane.

Answer: AC

Explanation:

In Junos OS, as with many network operating systems, the control plane is responsible for processes that determine how to route traffic. This includes maintaining routing tables, which store information about network paths and protocols. Therefore, routing tables are indeed stored in the control plane. Exception traffic refers to packets that cannot be processed by the normal fast-path processing of the Packet Forwarding Engine (PFE) in the forwarding plane, and thus are sent to the control plane for further processing. This might include packets destined for the router itself, packets that need to be fragmented, or packets that match certain firewall filter criteria, among other reasons. Routing tables are not stored in the forwarding plane. However, the forwarding plane contains the forwarding table (sometimes referred to as the forwarding information base or FIB), which is a distilled version of the routing table optimized for fast packet forwarding. The forwarding plane uses this information to perform the actual transfer of packets across the network device interfaces.

NEW QUESTION 50

Which protocol would you configure to synchronize the time and date on a Junos device?

- A. SNMP
- B. RIP
- C. NTP
- D. NMP

Answer: C

Explanation:

The Network Time Protocol (NTP) is designed to synchronize the clocks of computers over a network. Configuring NTP on a Junos device ensures that its clock is set accurately, which is crucial for logging, troubleshooting, and maintaining the integrity of time-sensitive operations and security protocols. NTP allows devices to use a hierarchy of time sources, from primary servers synchronized to a reference clock (such as an atomic clock or GPS time) to secondary servers that distribute the time to other devices on the network.

NEW QUESTION 55

Which command modifier would you use to see all possible completions for a specific command?

- A. |
- B. detail
- C. ?
- D. extensive

Answer: C

Explanation:

In Junos OS, the ? command modifier is used to display all possible completions for a specific command. This helps users understand the available options and syntax for a command they are trying to use.

Reference: Juniper Networks CLI Documentation

"Use the ? command modifier to display all possible completions for a specific command."

NEW QUESTION 60

What is the primary system log file that is present in the default configuration of a Junos device?

- A. kmd
- B. messages
- C. vrrp
- D. jsrpd

Answer: B

Explanation:

In the default configuration of a Junos device, the primary system log file is "messages" (B). This log file contains a wide range of system messages, including operational status changes, system errors, and other critical information, making it a key resource for troubleshooting and monitoring the system's health.

NEW QUESTION 61

Exhibit

```
user@router> show route 192.168.100.2
inet.O: 15 destinations, 17 routes (15 active, 0 holddown, 0 hidden) Limit/Threshold: 1048576/1048576 destinations
+ = Active Route, - = Last Active, * = Both 192.168.100.2/32*[OSPF/IO] 00:14:29, metric 1
> to 172.16.1.6 via ge-0/0/1.0 [BGP/170] 00:06:49, localpref 100
AS path: 65102 I, validation-state: unverified > to 172.16.1.6 via ge-0/0/1.0
Referring to the exhibit, which statement is correct?
```

- A. The BGP path is the only active route.
- B. The BGP route is preferred over the OSPF route.
- C. The OSPF path is the only active route.
- D. / Traffic is load-balanced across two routes.

Answer: C

Explanation:

Referring to the exhibit, the presence of the "+" symbol next to the OSPF route for 192.168.100.2/32 indicates that this is the active route being used to forward traffic. The BGP route, although present, does not have the "+" symbol, indicating it is not the active route. In Junos OS, the routing table displays the active route with a "+" symbol, and the fact that the OSPF route has this symbol means it is the preferred path based on the routing protocol's decision process, which takes into account factors such as route preference (administrative distance) and metrics.

NEW QUESTION 64

You have logged on to a Junos device and are at the operational mode prompt. Which two commands are used at this prompt? (Choose two.)

- A. show interface ge-0/0/0
- B. request system shutdown
- C. set interface ge-0/0/0 unit 0 family inet
- D. run show interface terse

Answer: A

Explanation:

At the operational mode prompt on a Junos device, you can use various commands to view the device's status and request system operations. The show interface ge-0/0/0 command is used to display information about a specific interface, while the request system shutdown command is used to properly shut down the device. The set command is used in configuration mode, not operational mode, and the run command is used to execute operational mode commands from configuration mode.

NEW QUESTION 66

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