

Juniper

Exam Questions JN0-105

Junos - Associate (JNCIA-Junos) 2024 Exam



NEW QUESTION 1

Which two functions are performed by the PFE? (Choose two.)

- A. It implements firewall filters.
- B. It selects active routes.
- C. It forwards transit traffic.
- D. It maintains the routing table.

Answer: AC

Explanation:

The Packet Forwarding Engine (PFE) in Junos OS performs several key functions, including implementing firewall filters (A) and forwarding transit traffic (C). The PFE applies firewall filter rules to incoming and outgoing traffic and is responsible for the high-speed forwarding of packets based on the information in the forwarding table.

NEW QUESTION 2

What is a benefit of using J-Web?

- A. It simultaneously manages multiple devices.
- B. It provides a customizable dashboard.
- C. It provides more advanced features than the CLI.
- D. It provides console-based management.

Answer: B

Explanation:

If you've committed a configuration and then need to revert to the previous configuration, the rollback command is used. Since the incorrect IP address has not been committed, as indicated by the commit check command being successful, issuing rollback 1 will undo the changes made in the current session, which includes the accidental entry of the IP address.

NEW QUESTION 3

What is the maximum number of rollback configuration files that the Junos OS will store?

- A. 65
- B. 50
- C. 25
- D. 19

Answer: B

Explanation:

Junos OS can store up to 50 rollback configuration files, making B the correct answer. These rollback files allow administrators to revert to previous configurations, providing a safety net that facilitates recovery from configuration errors or undesired changes.

NEW QUESTION 4

Which process in the Junos OS is responsible for device management tasks including the CLI and commit operations?

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

Answer: A

Explanation:

In Junos OS, the management daemon (mgd) is responsible for handling all the device management tasks, including processing CLI commands and handling commit operations. The mgd daemon interacts with the Junos OS configuration database and provides the necessary logic to ensure that configuration changes are syntactically correct and do not conflict with each other. When a user commits a configuration, mgd validates the changes, applies them to the running configuration, and ensures that the necessary daemons are notified of the changes to apply them accordingly.

NEW QUESTION 5

Which two statements about route preference in Junos are correct? (Choose two.)

- A. Both direct and static routes have the same preference.
- B. Both direct and local routes have the same preference.
- C. Both OSPF internal and OSPF AS external routes have the same preference.
- D. Both EBGP and IBGP routes have the same preference.

Answer: BC

Explanation:

In Junos OS, route preference (also known as administrative distance) is used to determine the preferred route among multiple routes to the same destination learned via different routing protocols. Direct and local routes, which represent directly connected networks and interfaces, typically share the same low preference value, indicating high trustworthiness because they are directly connected to the router. OSPF internal routes (routes within the same OSPF area) and OSPF AS external routes (routes that are external to the OSPF autonomous system but redistributed into OSPF) also share the same preference value, although this value is higher (indicating less trust) than for direct and local routes. This distinction helps the routing engine decide which routes to use when multiple paths are

available.

NEW QUESTION 6

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 7

Which statement is correct concerning exception traffic processing?

- A. Exception traffic is always dropped during congestion.
- B. Exception traffic is rate-limited to protect the RE.
- C. Exception traffic is discarded by the PFE.
- D. Exception traffic is never forwarded.

Answer: B

Explanation:

Exception traffic refers to packets that the Packet Forwarding Engine (PFE) cannot process normally and must be forwarded to the Routing Engine (RE) for further processing. This includes packets destined for the router itself or packets needing special handling that the PFE cannot provide. To protect the RE from being overwhelmed by such traffic, which could potentially impact the router's control plane functions, exception traffic is rate-limited. This means that there's a threshold to how much exception traffic can be sent to the RE, ensuring that the router's critical management and control functions remain stable and responsive even during high traffic volumes or attacks.

NEW QUESTION 8

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

- A. The PFE implements various services such as policing, stateless firewall filtering, and class of service.
- B. The PFE uses Layer 2 and Layer 3 forwarding tables to forward traffic toward its destination.
- C. The PFE handles all processes that control the chassis components.
- D. The PFE is responsible for performing protocol updates and system management.

Answer: AB

Explanation:

The Packet Forwarding Engine (PFE) in Juniper Networks devices is the heart of the data plane, handling the actual forwarding of packets based on pre-computed forwarding tables. It provides several critical services to manage and control traffic flow, including policing (to enforce bandwidth limits for certain traffic types), stateless firewall filtering (to permit or deny traffic based on predefined criteria), and Class of Service (CoS) (to prioritize traffic to ensure quality of service for critical applications). The PFE utilizes both Layer 2 (MAC addresses) and Layer 3 (IP addresses) forwarding tables to make intelligent forwarding decisions, ensuring that packets are efficiently routed toward their final destination.

NEW QUESTION 9

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 10

Which two external authentication methods does Junos support for administrative access? (Choose two.)

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

Answer: A

Explanation:

Junos OS supports several external authentication methods for administrative access, with TACACS+ (Terminal Access Controller Access-Control System Plus) and RADIUS (Remote Authentication Dial-In User Service) being among the most commonly used. Both TACACS+ and RADIUS are protocols that allow network devices to communicate with a central authentication server, enabling centralized control over user authentication and authorization. This centralization simplifies the management of user credentials and access policies, especially in larger networks with multiple devices.

NEW QUESTION 10

You have just increased the MTU size of interface ge-0/0/0 and committed the configuration. Which command would help you identify the applied MTU change?

- A. monitor interface ge-0/0/0
- B. monitor traffic interface ge-0/0/0
- C. show interfaces ge-0/0/0 terse
- D. show interfaces ge-0/0/0

Answer: D

Explanation:

After increasing the MTU size of an interface and committing the configuration, the command to verify the applied MTU change is D, "show interfaces ge- 0/0/0." This command displays detailed information about the interface, including the current MTU size, making it the best choice for verifying the applied changes.

NEW QUESTION 15

Your network infrastructure transports data, voice, and video traffic. Users are complaining that voice and video calls are not performing to their expectations. In this scenario, which technology would you implement to improve voice and video performance on your network?

- A. NAT
- B. CoS
- C. STP
- D. IPv6

Answer: B

Explanation:

In a network that carries diverse types of traffic like data, voice, and video, ensuring the performance of latency-sensitive applications such as voice and video calls is crucial. Class of Service (CoS) is a technology designed to prioritize network traffic, ensuring that critical applications like voice and video receive the necessary bandwidth and minimal latency. CoS mechanisms can include traffic classification, traffic policing, queue management, and scheduling. By implementing CoS, network administrators can assign higher priority to voice and video traffic, thus improving their performance across the network and addressing the users' complaints about call quality.

NEW QUESTION 18

You are asked to convert the number 7 from decimal to binary. Which number is correct in this scenario?

- A. 00001000
- B. 00010000
- C. 00000111
- D. 11100000

Answer: C

Explanation:

To convert the decimal number 7 to binary, the correct representation is 00000111 (C). In binary, 7 is represented as $1+2+4$ ($2^0 + 2^1 + 2^2$), which corresponds to the last three digits being 1 in the binary format, with leading zeros added for clarity.

NEW QUESTION 20

Which two actions happen when multiple users issue the configure exclusive command to enter configuration mode on a Junos device? (Choose two.)

- A. Other users can enter configuration mode.

- B. The candidate configuration is unlocked.
- C. The candidate configuration is locked.
- D. Other users cannot enter configuration mode.

Answer: CD

Explanation:

In Junos OS, when a user issues the configure exclusive command, it locks the candidate configuration for that user, preventing other users from making concurrent configuration changes. This exclusive lock ensures that configuration changes are managed in a controlled manner, reducing the risk of conflicting changes. As a result, while one user is in exclusive configuration mode, other users are prevented from entering configuration mode until the lock is released, either by the user committing the changes or exiting configuration mode.

NEW QUESTION 24

What are two functions of the routing protocol daemon (rpd)? (Choose two.)

- A. It generates chassis alarms.
- B. It provides access to the CLI.
- C. It creates forwarding tables.
- D. It maintains routing tables.

Answer: CD

Explanation:

The Routing Protocol Daemon (rpd) is a critical component in Juniper Networks devices, responsible for all routing operations. It maintains routing tables, which hold information about network paths and destinations derived from various routing protocols. These tables are used to make decisions about where to send packets. Additionally, rpd generates forwarding tables based on the information in the routing tables. The forwarding tables are then used by the Packet Forwarding Engine (PFE) to actually forward packets to their next hop or final destination.

NEW QUESTION 25

You are asked to configure your device running Junos OS to automatically archive your configuration upon commit. In this scenario, which two methods are supported by the Junos OS? (Choose two)

- A. SCP
- B. RCP
- C. FTP
- D. HTTP

Answer: AB

Explanation:

Junos OS supports multiple methods for automatically archiving configurations upon commit. Two of the supported methods are SCP (Secure Copy Protocol) and RCP (Remote Copy Protocol). These methods can be configured to save the configuration files to a remote server automatically whenever a commit is made.

Reference: Juniper Networks Documentation on Configuration Archival

"You can configure Junos OS to automatically archive the configuration using protocols such as SCP and RCP upon commit."

NEW QUESTION 27

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 31

Which type of device uses the destination IP address to forward packets?

- A. Layer 3 router
- B. Layer 2 switch
- C. repeater
- D. hub

Answer: A

Explanation:

A Layer 3 router forwards packets based on the destination IP address. It operates at the network layer of the OSI model and uses routing tables to determine the best path for packet delivery. Unlike Layer 2 switches, which forward packets based on MAC addresses, routers handle logical addressing, making them crucial for inter-network communication.

Reference:

Junos OS Documentation on Routing Fundamentals.

NEW QUESTION 36

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

- A. transit packets
- B. routing updates
- C. log messages
- D. ping to the local device

Answer: BC

Explanation:

Exception traffic includes traffic that is not simply forwarded by the router but requires special handling, such as routing updates (B) and log messages (C). These types of traffic are processed by the router's control plane rather than just being forwarded through the data plane.

NEW QUESTION 41

By default, how does the PFE manage unicast traffic destined for an existing forwarding table entry?

- A. It sends the traffic through multiple ports toward its destination.
- B. It sends the traffic through one port toward its destination.
- C. It sends the traffic through the fxpl interface to the RE.
- D. It sends all traffic to the control plane for further processing.

Answer: B

Explanation:

In a Juniper Networks device, the Packet Forwarding Engine (PFE) processes unicast traffic by forwarding it according to the existing entries in the forwarding table. When the PFE encounters unicast traffic destined for an address that has a corresponding entry in the forwarding table, it directs the traffic through a specific outgoing interface or port toward its destination. This process is based on the most efficient path determined by the routing protocols in use, ensuring that the packet reaches its intended destination through a singular path, unless specific configurations such as load balancing are in place.

NEW QUESTION 45

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 49

Which two statements apply to the Routing Engine functions? (Choose two.)

- A. It responds to ping and traceroute commands.
- B. It maintains the routing tables.
- C. It does not process routing updates.
- D. It processes the transit traffic.

Answer: AB

Explanation:

The Routing Engine (RE) in Juniper Networks devices plays a critical role in the control plane operations. One of its functions includes responding to network utility commands like ping and traceroute, which are essential for diagnosing network connectivity and path issues. Furthermore, the RE is responsible for maintaining the routing tables, which contain information about network paths and destinations. These tables are vital for making forwarding decisions but are distinct from the actual forwarding of packets, which is handled by the Packet Forwarding Engine (PFE).

NEW QUESTION 52

Exhibit

```
[edit system archival] user@router# show configuration {
transfer-on-commit; archive-sites {
"scp://user@172.15.100.2 : /archive" password## SECRET-DATA
"ftp://user@10.210.9.178:/archive" password "$9..."; ## SECRET-DATA
}
```

Referring to the exhibit, where are the configuration backup files stored?

- A. Files are stored to the SCP site and the FTP site in a round-robin manner.
- B. Files are stored to the SCP site and the FTP site simultaneously.
- C. Files are stored to any site as selected by Junos internally.
- D. Files are stored to the SCP site but if the transfer fails, then to the FTP site.

Answer: B

Explanation:

In Junos OS, the archival configuration under [edit system] allows for the automatic backup of configuration files to designated locations upon commit. When multiple archive-sites are specified, as shown in the exhibit with both SCP and FTP sites listed, the device does not choose between them or use them in a round-robin manner. Instead, it attempts to transfer the configuration backup files to all specified sites simultaneously upon each commit. This ensures redundancy and increases the likelihood that a backup will be successfully stored even if one of the transfer methods or destinations fails.

NEW QUESTION 57

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 62

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 65

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 67

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

- A. MAC address
- B. IP address
- C. routing protocols
- D. MTU

Answer: AD

Explanation:

Two physical interface properties in Junos OS include the MAC address (A) and the Maximum Transmission Unit (MTU) size (D). The MAC address is a hardware identifier for the network interface, while the MTU size determines the largest packet size that the interface can transmit without needing to fragment the packet.

NEW QUESTION 71

How many login classes are assignable to a user account?

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

Answer: D

Explanation:

<https://www.juniper.net/documentation/us/en/software/junos/user-access-evo/user-access/topics/topic-map/junos-os-login-class.html#:~:text=You%20can%20define%20any%20number,to%20an%20individual%20user%20account.>

In Junos OS, each user account can be assigned only one login class. Login classes in Junos OS define the permissions for users, controlling what they can access and modify within the system. This setup helps in maintaining a clear and secure access control mechanism.

Reference:

Junos OS Documentation on User Accounts and Login Classes.

NEW QUESTION 76

Which two statements are correct about MAC addresses? (Choose two.)

- A. Switches use the Address Resolution Protocol table to assign MAC addresses to network interface cards in the forwarding frame.
- B. The source and destination MAC addresses always remains static to the final destination.
- C. The MAC address identifies the physical hardware.
- D. Switches use the destination MAC address to identify the next-hop destination and to change the destination MAC address in the frame.

Answer: CD

Explanation:

MAC (Media Access Control) addresses are unique identifiers assigned to network interfaces for communications at the data link layer of a network segment. MAC addresses are used to identify the physical hardware on a network. In the context of Ethernet switches, the destination MAC address in incoming frames is used to determine the appropriate output port for forwarding the frame towards its final destination. The switch does not change the destination MAC address; it uses the MAC address to make forwarding decisions within the local network segment.

NEW QUESTION 81

Your router has a route to the 10.1.1.0/24 network with a next hop of r jet.

In this scenario, which action will your router perform when traffic destined to the 10.1.1.0/24 network is received?

- A. The traffic will be discarded and an ICMP unreachable message will be sent to the destination of the traffic.
- B. The traffic will be discarded and an ICMP unreachable message will be sent to the source of the traffic.
- C. The traffic will be redirected using a default route.
- D. The traffic will be silently discarded.

Answer: D

Explanation:

In a scenario where a router has a route to a specific network (in this case, 10.1.1.0/24) with a next hop that is unreachable or incorrectly specified (e.g., "r jet" seems to be a typo or an undefined entity), the router will typically discard the traffic destined for that network. This action is taken because the router cannot determine a valid path to forward the traffic. Unlike some scenarios where the router might generate an ICMP (Internet Control Message Protocol) unreachable message, in many configurations, especially in production networks, the traffic might be silently discarded without providing feedback to the sender, as generating ICMP messages for all undeliverable packets could lead to additional network congestion and potential security concerns.

NEW QUESTION 85

Exhibit

```
policy-options {  
  policy-statement Load-Balance-Policy {  
    term Load-Balance {  
      then {  
        load-balance per-flow;  
        accept;  
      }  
    }  
  }  
}
```

```
routing-options {  
  router-id 192.168.100.11;  
  autonomous-system 65201;  
  forwarding-table {  
    export Load-Balance-Policy;  
  }  
}
```

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

- A. The policy enables equal cost load balancing in the forwarding table.
- B. The policy must be applied under the protocols hierarchy.
- C. The policy enables per-packet load balancing.
- D. The policy enables flow-based load balancing.

Answer: A

Explanation:

The load-balance per-flow statement in the Junos OS policy-options configuration enables flow-based load balancing in the forwarding table. This means that the traffic is distributed across multiple paths based on flows, where a flow is typically identified by attributes such as source and destination IP addresses, and possibly layer 4 information like TCP/UDP ports. This allows for more granular and efficient utilization of available paths, avoiding overloading a single path. The policy does not enable per-packet load balancing, which would send individual packets of the same flow over different paths, potentially causing out-of-order

delivery issues. The policy's placement in the forwarding- table export suggests it's intended to influence forwarding behavior, not just routing protocol decisions, and does not necessarily have to be applied under the protocols hierarchy.

NEW QUESTION 88

Which service does RADIUS provide?

- A. routing
- B. authentication
- C. DNS resolution
- D. time synchronization

Answer: B

Explanation:

RADIUS, which stands for Remote Authentication Dial-In User Service, provides authentication services for users trying to access a network. It is a networking protocol that provides centralized Authentication, Authorization, and Accounting (AAA) management for users who connect and use a network service.

NEW QUESTION 90

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 93

Exhibit

```
{hold:node0}[edit]
```

```
root# set system root-authentication ?
```

Possible completions:

- + apply-groups Groups from which to inherit configuration data
- + apply-groups-except Don't inherit configuration data from these groups
- encrypted-password Encrypted password string
- load-key-file File (URL) containing one or more ssh keys
- plain-text-password Prompt for plain text password (autoencrypted)
- > ssh-dsa Secure shell (ssh) DSA public key string
- > ssh-rsa Secure shell (ssh) RSA public key string

```
{hold:node0}[edit]
```

```
root# set system root-authentication plain-text-password
```

New password:

Retype new password:

```
{hold:node0}[edit]
```

```
root# commit and-quit
```

```
[edit interfaces]
```

```
'ge-0/0/0'
```

HA management port cannot be configured

error: configuration check-out failed

```
{hold:node0}[edit]
```

```
root#
```

You are unable to remotely access your Juniper device using the CLI.

Referring to the exhibit, which command would you add to the existing configuration to enable remote CLI access?

- A. load factory-default
- B. set system root-authentication plain-text-password
- C. set system services ssh
- D. set system login idle-timeout 20

Answer: C

Explanation:

In Junos OS, remote access to the device's CLI is commonly facilitated through Secure Shell (SSH), a protocol providing secure command-line access over an insecure network. The given exhibit indicates an attempt to set a root authentication password but does not show configuration for enabling remote access services. To enable SSH, which is not shown in the configuration snippet, you need to configure the device to accept SSH connections. This is done by enabling the SSH service within the system services hierarchy of the configuration. The correct command to add to the existing configuration for enabling remote CLI access via SSH is set system services ssh. This command activates the SSH service, allowing secure remote logins to the device.

NEW QUESTION 94

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 98

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 100

You are trying to diagnose packet loss at interface ge-0/0/3.
In this scenario, which command would help you view error statistics in real time?

- A. show interface terse
- B. show interface ge-0/0/3
- C. monitor interface traffic
- D. monitor interface ge-0/0/3

Answer: D

Explanation:

The monitor interface ge-0/0/3 command is used in Junos OS to view real-time statistics for a specific interface. This command helps in diagnosing issues like packet loss by displaying real-time updates of traffic and error statistics for the specified interface.

NEW QUESTION 101

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 102

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 104

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 109

What are two functions of the Routing Engine? (Choose two.)

- A. It processes all management traffic.
- B. It runs the Junos operating system.
- C. It evaluates firewall filters for transit traffic.
- D. It processes transit traffic.

Answer: AB

Explanation:

The Routing Engine (RE) in Junos OS has several critical functions, including processing all management traffic (A) and running the Junos operating system (B). The RE handles system management tasks, user interfaces, system services, and routing protocol processes. It does not directly process transit traffic or evaluate firewall filters for transit traffic, as these tasks are handled by the Packet Forwarding Engine (PFE).

NEW QUESTION 113

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 116

You issue the telnet 10.10.10.1 source 192.168.100.1 command. Which two statements are correct in this scenario? (Choose two.)

- A. The telnet session will have a source address of 10.10.10.1.
- B. The telnet session will have a destination address of 192.168.100.1.
- C. The telnet session will have a destination address of 10.10.10.1.
- D. The telnet session will have a source address of 192.168.100.1.

Answer: CD

Explanation:

In the given telnet command, "telnet 10.10.10.1 source 192.168.100.1," the destination address of the telnet session is 10.10.10.1, and the source address of the session is specified as 192.168.100.1, making C and D the correct answers. This command instructs the telnet client to use the specified source IP address when establishing the connection to the destination.

NEW QUESTION 117

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