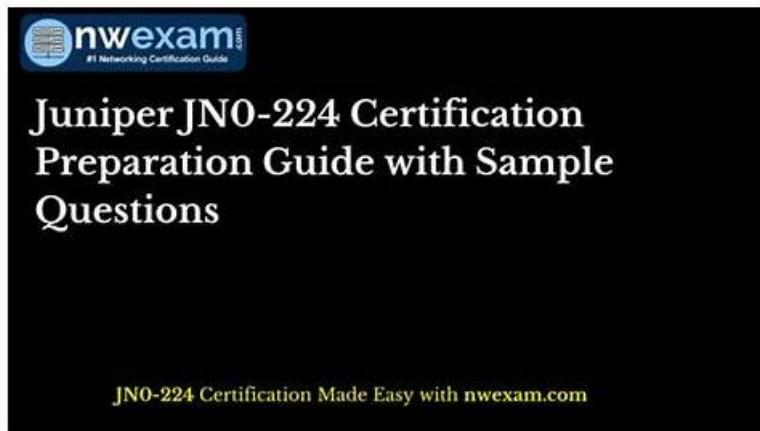


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### Juniper Automation and DevOps, Associate (JNCIA-DevOps) Sample Questions (Q23-Q28):

#### NEW QUESTION # 23

Which two processes are used by Junos automation? (Choose two.)

- A. mod
- B. kmd
- C. ifd
- D. jsd

**Answer: B,D**

Explanation:

Junos automation relies on several key processes to handle various automation and API interactions. Let's break down the two key processes involved:

jsd (Junos Script Daemon):

The jsd process is responsible for handling automation scripts, including Python and SLAX scripts, as well as handling JET (Junos Extension Toolkit) API requests. This process is fundamental in the automation framework of Junos, as it deals with external and internal API requests, ensuring that the necessary scripts are executed when specific triggers or events occur.

kmd (Key Management Daemon):

The kmd process is involved in key management for IPsec and other security services. While its primary function is related to managing cryptographic keys, it plays a role in Junos automation by enabling secure communication and ensuring that automation tasks involving security services (such as automated IPsec tunnel creation) are handled securely.

Why the Other Options Are Incorrect:

A . mod: This process doesn't exist as part of the Junos automation framework. It's likely a distractor.  
C . ifd: The ifd process is associated with the physical interfaces on the device and does not play a role in automation or script processing.

Reference from Juniper Documentation:

Junos Automation Processes

#### NEW QUESTION # 24

What is an example of correct XML syntax?

- A. <Devices><hostname>vMX1</Devices>
- B. <Devices><hostname>vMX1</ho3tnameX/Device3>
- C. <Devices><hostname>vMX1<De vices/X/hostname>
- D. <Device3><ho3tname>vMX1</hostname><Devices/>

Answer: C

#### NEW QUESTION # 25

Which type of on-box automation script is designed to run every time a user executes a configuration change?

- A. operation
- B. commit
- C. event
- D. SNMP

Answer: B

Explanation:

In Junos OS, a commit script is an on-box automation script that runs every time a configuration change is committed. Commit scripts are used to enforce configuration policies, validate configuration changes, or make automatic adjustments to configurations when certain conditions are met.

Commit Script (C): Executes automatically during the commit process, ensuring that the new configuration adheres to specific rules or conventions before it is applied to the system.

Event, SNMP, and operation scripts are used for other purposes in Junos automation but do not run automatically with every configuration change.

Reference:

Junos OS Automation Scripts Guide: Provides details on different types of scripts, including commit scripts, and their use cases.

Juniper Networks Documentation: Offers examples and best practices for creating and using commit scripts.

#### NEW QUESTION # 26

Using the set rest control configuration command, what are two ways to control access to the REST API running on a Junos device? (Choose two.)

- A. Limit management access to specific users.
- B. Limit management access to only SSH
- C. Limit access to only certain source IP addresses
- D. Limit the number of simultaneous connections.

Answer: C,D

Explanation:

When using the set rest control configuration command on a Junos device, you have several options to control access to the REST API. Two effective methods include:

Limiting the number of simultaneous connections: This ensures that the REST API is not overwhelmed by too many concurrent requests, which could potentially lead to performance issues or denial of service.

Limiting access to certain source IP addresses: This method restricts API access to specific IP addresses, enhancing security by ensuring that only trusted sources can interact with the REST API.

Option A (Limit management access to only SSH) is unrelated to controlling REST API access specifically.

Option B (Limit management access to specific users) might be relevant in a different context, but it is not directly tied to REST API control via the specific command mentioned.

Supporting Reference:

Juniper Networks REST API Documentation: This documentation explains how to configure and control access to the REST API on Junos devices, including connection limits and IP-based access control.

## NEW QUESTION # 27

Which DevOps "Three way" principle addresses technical debt?

- A. feedback
- B. continuous experimentation and learning
- C. continuous experimentation
- D. flow

**Answer: A**

Explanation:

In the context of the DevOps "Three Ways" principles, the feedback principle directly addresses the management of technical debt. The "Three Ways" are core principles guiding DevOps practices, and they are as follows:

Flow: Refers to the smooth and fast flow of work through the system, from development to operations.

Feedback: Emphasizes creating effective, fast, and continuous feedback loops between teams to catch issues early, address technical debt, and ensure quality.

Continuous experimentation and learning: Encourages constant experimentation, innovation, and learning from failures to improve systems and processes over time.

Feedback and Technical Debt:

Feedback loops play a crucial role in addressing technical debt. Technical debt refers to the implied cost of additional work that arises when code or system design decisions are made for short-term gains, such as quick fixes or temporary patches. Over time, technical debt can accumulate and degrade system performance, reliability, and maintainability.

The feedback loop ensures that issues related to technical debt (such as poor code quality, design shortcuts, or performance bottlenecks) are caught early in the process, ideally before they become major problems. Continuous monitoring, testing, and reviewing help identify and resolve technical debt incrementally rather than letting it accumulate unchecked.

Automation in feedback loops: In DevOps, automated testing, continuous integration (CI), and monitoring tools provide immediate feedback to developers, highlighting areas where technical debt is increasing. This feedback is crucial for making proactive decisions about refactoring code or improving infrastructure without waiting for problems to manifest in production.

For instance, the feedback loop might expose slowdowns in application performance after each new feature is added. This would trigger a review to either refactor the feature code or improve system resources, preventing further technical debt accumulation.

Flow and Technical Debt:

While flow focuses on the smooth transition of work through the pipeline, it indirectly helps with technical debt by ensuring continuous and streamlined processes. However, feedback mechanisms are the primary tools for identifying and resolving technical debt.

Continuous Experimentation and Learning:

This principle promotes innovation and learning from failures but does not directly address technical debt. The focus here is more on risk-taking and improvement rather than managing or eliminating technical debt.

Reference from DevOps Practices:

The Phoenix Project, a book often referenced in DevOps, discusses how feedback loops are essential for maintaining system integrity and managing technical debt effectively. By improving feedback mechanisms, teams can address small issues before they become costly to fix.

The DevOps Handbook also highlights the importance of feedback in managing technical debt, emphasizing that fast feedback allows for continuous improvement and avoids the accumulation of bad practices that would otherwise lead to technical debt.

Juniper Automation and DevOps Context: Juniper's automation frameworks integrate feedback mechanisms using tools like continuous monitoring and automated testing. These tools help engineers track the health of network systems, identify configuration drifts, and resolve issues before they lead to significant technical debt.

Additional Resources:

The Phoenix Project by Gene Kim

The DevOps Handbook

## NEW QUESTION # 28

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