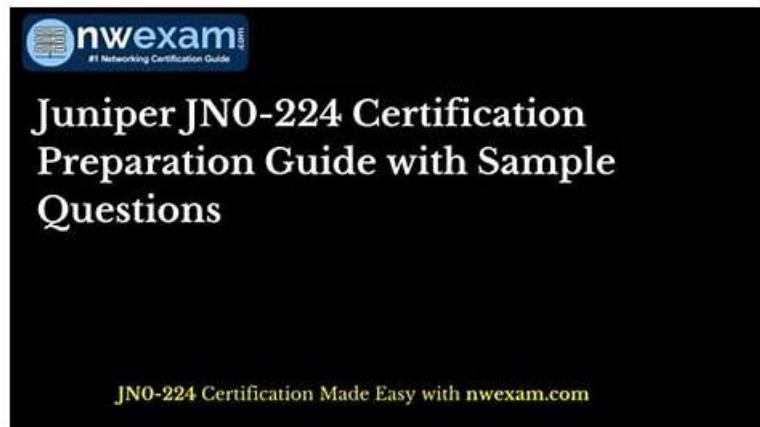


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JN0-224 Exam Questions & Answers: Automation and DevOps, Associate (JNCIA-DevOps) & JN0-224 Exam Braindumps

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Juniper JN0-224 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Junos Automation Stack and DevOps Concepts: This domain covers fundamental automation tools, frameworks, APIs, and DevOps culture applicable to Junos platform operations and network management.
Topic 2	<ul style="list-style-type: none">Rest API: This domain covers Junos REST API implementation, REST API Explorer tool, and cURL usage for HTTP-based device management and configuration.
Topic 3	<ul style="list-style-type: none">PythonPyEZ: This domain examines Python programming with PyEZ library for Junos automation, including JSNAPy, Jinja2 templates, RPC calls, exception handling, and device configuration management.

Topic 4	<ul style="list-style-type: none"> • NETCONF • XML API: This domain focuses on XML syntax, XPath expressions, NETCONF protocol, and XML API functionality for programmatic device configuration and communication.
Topic 5	<ul style="list-style-type: none"> • Data Serialization: This domain addresses YAML and JSON formats used for structured data representation and exchange in network automation workflows.

Juniper Automation and DevOps, Associate (JNCIA-DevOps) Sample Questions (Q32-Q37):

NEW QUESTION # 32

Which two statements about Ansible are correct? (Choose two.)

- A. Ansible modules must be written in Go.
- B. Ansible requires a license to unlock full functionality.
- C. Ansible can use a single playbook to configure devices from multiple vendors.
- D. Ansible is an open source project.

Answer: C,D

NEW QUESTION # 33

Which DevOps "Three way" principle addresses technical debt?

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

Answer: B

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 # 34

What is an example of correct XML syntax?

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

Answer: B

NEW QUESTION # 35

Which statement is valid regarding YAML and JSON?

- A. YAML and JSON use indentation.
- B. YAML and JSON are case-sensitive.
- C. Comments are available in YAML and JSON.
- D. White space is ignored in YAML and JSON.

Answer: B

Explanation:

Both YAML and JSON are case-sensitive, meaning that the distinction between uppercase and lowercase characters matters. For example, in JSON or YAML, Key and key would be considered different.

Option D (case-sensitive) is correct because both YAML and JSON treat keys and values with different cases as distinct.

Option A is incorrect because, while JSON does not use indentation, YAML does rely on indentation to define structure. Option B is incorrect because whitespace can be significant in YAML for structure, and Option C is incorrect because JSON does not support comments, while YAML does.

Supporting Reference:

YAML and JSON Documentation: The official specifications for both YAML and JSON emphasize their case sensitivity.

NEW QUESTION # 36

You are asked to use the REST API to retrieve interface configuration information from your Junos device. You decide to use a cURL HTTP GET command to retrieve this information.

In this scenario, which two statements are correct? (Choose two.)

- A. You can retrieve this data in HTML or JSON formats.
- B. You must have SSH enabled on the Junos device.
- C. You must Include the authentication Information with each request.
- D. You can retrieve this data in XML or JSON formats.

Answer: C,D

Explanation:

When using the REST API to retrieve interface configuration information from a Junos device:

Data Formats (C): The information can be retrieved in XML or JSON formats. These are the two standard data formats supported

by the Junos REST API for representing configuration and operational data.

Authentication (D): For each HTTP request, especially when using tools like cURL, authentication information must be included. This is typically done using basic authentication (username and password) or an authentication token.

Option A is incorrect because HTML is not a supported format for REST API data retrieval in Junos, and Option B is incorrect because SSH is not required for REST API requests; the REST API typically uses HTTP/HTTPS.

Reference:

Junos REST API Documentation: Details the data formats (XML, JSON) supported by the Junos REST API and the need for authentication.

cURL Usage with REST API: Provides examples of how to use cURL with Junos REST API, including the necessity of providing authentication.

NEW QUESTION # 37

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