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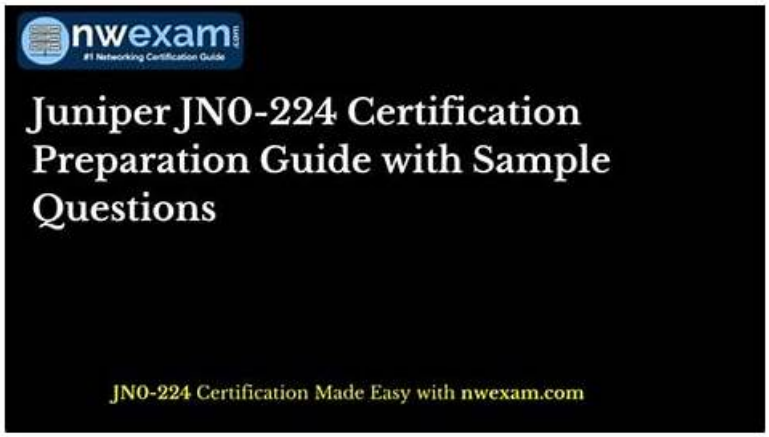

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Juniper JN0-224 Exam Syllabus Topics:

Topic	Details
Topic 1	• NETCONF • XML API: This domain focuses on XML syntax, XPath expressions, NETCONF protocol, and XML API functionality for programmatic device configuration and communication.
Topic 2	• Python • PyEZ: This domain examines Python programming with PyEZ library for Junos automation, including JSNAPy, Jinja2 templates, RPC calls, exception handling, and device configuration management.
Topic 3	• Data Serialization: This domain addresses YAML and JSON formats used for structured data representation and exchange in network automation workflows.
Topic 4	• 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 5	• Rest API: This domain covers Junos REST API implementation, REST API Explorer tool, and cURL usage for HTTP-based device management and configuration.

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Juniper Automation and DevOps, Associate (JNCIA-DevOps) Sample

Questions (Q27-Q32):

NEW QUESTION # 27
YAML uses which two data structures? (Choose two.)

- A. sequences
- B. mappings
- C. objects
- D. arrays

Answer: A,B

Explanation:
YAML (YAML Ain't Markup Language) primarily uses two data structures:
Mappings: These are key-value pairs, similar to dictionaries or hashes in programming languages. In YAML, mappings are used to represent associative arrays or objects. They are defined with a colon (:) separating the key from the value.
Example:
key: value
name: John Doe
Sequences: These are ordered lists of items, equivalent to arrays or lists in other programming languages. Sequences in YAML are denoted by a dash (-) followed by a space and then the item.
Example:
fruits:
- Apple
- Banana
- Cherry
Detailed Explanation:
Mappings (B) allow you to define relationships between keys and values, making it possible to represent more complex data structures like dictionaries or objects.
Sequences (C) allow you to represent ordered collections, which is important for listing elements that must maintain a specific order.
YAML is often used in configuration files and data serialization in DevOps environments, such as in Ansible playbooks, Kubernetes manifest files, and CI/CD pipeline definitions. Its simplicity and human-readable format make it a popular choice for these applications.
Reference:
YAML Official Documentation: YAML's specification outlines these core data structures.
Juniper Automation and DevOps Documentation: Provides best practices for using YAML in network automation scripts and configuration management.

NEW QUESTION # 28
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 the number of simultaneous connections.
- D. Limit access to only certain source IP addresses

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 # 29
Which DevOps "Three way" principle addresses technical debt?

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

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 # 30
You are asked to develop an on-box Junos script that prevents deletion of the SNMP configuration.
Which type of script serves this purpose?

- A. op script

- B. SNMP script
- C. commit script
- D. event script

Answer: C

Explanation:
A commit script in Junos is used to enforce policies and configuration constraints on the device. These scripts are written in Extensible Stylesheet Language Transformations (XSLT) or Python and are executed automatically during the commit process of a configuration change.
In this context, to prevent the deletion of the SNMP configuration, a commit script is the appropriate choice. It can be designed to check the configuration changes being committed and reject any commit that attempts to delete or modify the SNMP configuration. This script essentially acts as a gatekeeper, ensuring that only allowable changes are committed to the device configuration.
Supporting Reference:
Juniper Networks Commit Scripts Documentation: The official Juniper documentation provides examples and use cases of commit scripts, including how they can be used to prevent unauthorized changes to the device configuration.
"Junos Automation Scripting" by Jonathan Looney: This resource gives practical examples and best practices for creating commit scripts to enforce configuration policies in Junos OS.

NEW QUESTION # 31
Which two statements about XML schema definition (XSD) files are correct? (Choose two.)

- A. XSD files ensure that everyone working with the XML document uses a common set of tags.
- B. An XSD file is not an XML document.
- C. XSD files define all the elements in an XML document and the document XML hierarchy.
- D. Every XML document must have an XSD file defined for it.

Answer: A,C

Explanation:
XML Schema Definition (XSD) files are used to define the structure and data types of an XML document. They ensure that the XML document adheres to a specific structure by defining the allowed elements, attributes, and their data types, thereby enforcing a consistent format.
Option A is correct because XSD files define the elements, attributes, and structure (hierarchy) of an XML document.
Option D is correct because XSD files provide a standardized format, ensuring that all parties working with the XML document use the same set of tags and structure.
Option B (Every XML document must have an XSD file defined for it) is incorrect; not every XML document requires an XSD file, although it's beneficial for validation.
Option C (An XSD file is not an XML document) is incorrect because XSD files themselves are written in XML.
Supporting Reference:
W3C XML Schema Definition (XSD) Documentation: Explains the purpose and structure of XSD files, including their role in defining XML document schemas.

NEW QUESTION # 32
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