2026 Juniper First-grade JN0-224: New Automation and DevOps, Associate (JNCIA-DevOps) Braindumps

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Juniper JN0-224 Exam Syllabus Topics:

Topic	Details
Topic 1	• Rest API: This domain covers Junos REST API implementation, REST API Explorer tool, and cURL usage for HTTP-based device management and configuration.
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	• 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 4	• Data Serialization: This domain addresses YAML and JSON formats used for structured data representation and exchange in network automation workflows.
Topic 5	• NETCONF • XML API: This domain focuses on XML syntax, XPath expressions, NETCONF protocol, and XML API functionality for programmatic device configuration and communication.

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Juniper Automation and DevOps, Associate (JNCIA-DevOps) Sample Questions (Q66-Q71):

NEW QUESTION # 66
Which DevOps "Three way" principle addresses technical debt?

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

Answer: C

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 # 67
Which data construct is used to guarantee that element names and data values remain unique in an XML document?

- A. dictionary
- B. namespace
- C. element
- D. schema definition

Answer: B

Explanation:
In XML documents, a namespace is the data construct used to ensure that element names and data values remain unique. Namespaces prevent naming conflicts by differentiating between elements or attributes that may have the same name but different meanings. This is particularly important in XML, where documents often incorporate elements from multiple sources.
Detailed Explanation:
XML Namespaces: A namespace is a collection of names, identified by a URI reference, which is used to distinguish between elements that may have identical names but different definitions or origins. This helps avoid ambiguity in the document.
How Namespaces Work: When a namespace is applied, each element or attribute in the XML document is associated with a prefix. This prefix, combined with the namespace URI, ensures that the element or attribute is uniquely identified, even if another element or attribute in the same document has the same local name but a different namespace.
Schema Definition vs. Namespace: Although an XML schema definition (XSD) can define the structure and type constraints of an XML document, it does not guarantee uniqueness of element names across different XML documents. That role is fulfilled by namespaces.
Practical Example:
xml
Copy code
<root xmlns:ns1="http://www.example.com/ns1"
xmlns:ns2="http://www.example.com/ns2">
<ns1:item>Item in namespace 1</ns1:item>
<ns2:item>Item in namespace 2</ns2:item>
</root>
In this example, the item elements are in different namespaces (ns1 and ns2), which keeps them unique even though they have the same name.
Reference:
Juniper Automation and DevOps Documentation: These practices highlight the importance of namespaces in XML documents to maintain the integrity and uniqueness of data, which is essential in automation scripts and configuration files.
W3C XML Namespace Specification: The World Wide Web Consortium (W3C) standard for XML Namespaces defines how namespaces should be used to avoid name conflicts.
Namespaces are a crucial concept in XML, ensuring that data can be consistently managed and interpreted correctly, particularly in complex systems where multiple XML documents or schemas are involved.

NEW QUESTION # 68
What is the correct sequence for Python script execution?

- A. The byte code is executed in runtime, the code is interpreted, and then the code is translated to byte code.
- B. The code is translated to byte code, the code is interpreted, and then the byte code is executed in runtime.
- C. The code is translated to byte code, the byte code is executed in runtime, and then the code is interpreted.
- D. The code is interpreted, the code is translated to byte code, and then the byte code is executed in runtime.

Answer: D

Explanation:
Python follows a specific execution flow when a script is run:
The code is interpreted:
Python is an interpreted language, meaning that the Python interpreter reads the code line by line. When a Python script is executed, the interpreter first reads the source code.

The code is translated to bytecode:
After interpreting the source code, Python translates it into bytecode. Bytecode is an intermediate representation of the source code that is portable and efficient for execution by the Python Virtual Machine (PVM).
The bytecode is executed in runtime:
Finally, the Python Virtual Machine (PVM) executes the bytecode. The PVM is a part of the Python runtime environment, responsible for interpreting the bytecode into machine-specific instructions for execution.
Hence, the correct sequence is: interpreted → translated to bytecode → bytecode executed in runtime.
Why the Other Options Are Incorrect:
Options A, C, and D present an incorrect order of the script execution process, especially in how bytecode is generated and executed.
Reference:
Python's documentation on the interpreter and its execution model explains this standard process.

NEW QUESTION # 69
You must use Junos PyEZ to configure unique IP addresses on individual machines.
Which two features will permit this requirement? (Choose). Ian SCP module

- A. a BSON data file
- B. a YAML data file
- C. an SCP module
- D. a Jinja2 template

Answer: B,D

Explanation:
To configure unique IP addresses on individual machines using Junos PyEZ, you can use the following features:
YAML Data File (C): YAML files are used to store configuration data in a human-readable format. They are often used in combination with Jinja2 templates to provide the data necessary for template rendering.
Jinja2 Template (D): Jinja2 is a templating engine for Python that allows you to create dynamic templates. When used with Junos PyEZ, a Jinja2 template can be filled with data (such as IP addresses from a YAML file) to generate configuration snippets that are applied to different devices.
Options A (SCP module) and B (BSON data file) are not typically used with Junos PyEZ for this purpose.
Reference:
Junos PyEZ Documentation: Discusses the use of YAML files and Jinja2 templates for generating configurations.
Jinja2 Templating Documentation: Provides details on how to create and use templates in Python scripts.

NEW QUESTION # 70
Which Junos API supports direct modification of the Ephemeral database?

- A. REST
- B. SOAP
- C. WebSocket
- D. JET

Answer: D

Explanation:
In Junos, the JET (Junos Extension Toolkit) API supports direct modification of the Ephemeral database. The Ephemeral database is a temporary configuration database used in Junos OS, allowing for changes that do not persist after a reboot unless explicitly committed to the permanent configuration.
JET API: Allows for high-performance interactions with Junos, including the ability to make changes to the Ephemeral database, which is useful for temporary configurations, dynamic policies, and other operational tasks.
Other options like WebSocket, SOAP, and REST do not provide direct access to the Ephemeral database in Junos.
Reference:
Juniper Networks JET Documentation: Details how JET API interacts with the Ephemeral database.
Junos Automation and DevOps Documentation: Discusses the use of JET for automation and dynamic configuration.

NEW QUESTION # 71

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