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Exam   :   JN0-224

Title   :   Automation and DevOps,
                    Associate (JNCIA-DevOps)

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1.Which statement is correct about DevOps?

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Juniper JN0-224 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• Data Serialization: This domain addresses YAML and JSON formats used for structured data representation and exchange in network automation workflows.
Topic 3	• Rest API: This domain covers Junos REST API implementation, REST API Explorer tool, and cURL usage for HTTP-based device management and configuration.

Topic 4	• 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	• 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.

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

NEW QUESTION # 23
Which two statements about the REST API are correct? (Choose two.)

- A. The REST API application is stateful.
- B. The TCP session state is maintained by the client
- C. The REST API application is stateless.
- D. The TCP session state is maintained by the server.

Answer: B,C

Explanation:
REST (Representational State Transfer) is an architectural style for designing networked applications, and its key principles include:
Statelessness (B): Each request from the client to the server must contain all the information needed to understand and process the request. The server does not store any session state between requests, meaning each request is independent and does not rely on previous ones.
TCP Session State (C): While REST itself is stateless, the underlying TCP connection's state, such as keeping the connection alive or managing retries, is handled by the client. The server does not retain information about the TCP connection beyond the processing of the individual request.
Options A and D are incorrect because they imply that the REST API is stateful, which contradicts the stateless nature of REST.
Reference:
REST API Design Principles: Describes the stateless nature of REST and the responsibility of clients in managing session state.
Web Development Documentation: Discusses how REST APIs operate, focusing on statelessness and client-server interaction.

NEW QUESTION # 24
You are using the curl tool to include multiple RPCs in a REST API request.
Which HTTP method must be used for this request?

- A. PUT
- B. HEAD
- C. GET
- D. POST

Answer: D

NEW QUESTION # 25

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

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

Answer: B,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 # 26

Which two statements are correct about using the Junos REST API? (Choose two.)

- A. It is a simple configuration.
- B. NETCONF is not supported.
- C. It must use SSH for a connection.
- D. It supports data In CSV format.

Answer: A,D

Explanation:
* A. It supports data in CSV format:
The Junos REST API supports multiple data formats for transferring information between systems, including XML, JSON, and CSV (Comma Separated Values). This flexibility allows for easier data parsing, especially in environments where structured data (like CSV) is a standard. CSV is often used for bulk data export or import and reporting purposes, making it an essential format for automation tasks involving external systems or large datasets.
Example Usage in REST API:
When using the Junos REST API, a user can request configuration or operational data and specify the response format (XML, JSON, or CSV). CSV is particularly useful when integrating Junos devices with systems that require easily readable, tabular formats.
Reference:
* D. It is a simple configuration:
The Junos REST API is designed to be relatively simple to configure. Once the REST API service is enabled on the Junos device, it can be accessed via HTTP or HTTPS, making it an easy entry point for automation and management tasks. Unlike more complex protocols (such as NETCONF), the REST API is lightweight and easier to use for simple configuration changes and retrieving operational data.
Configuration Example:
To enable the REST API, you can add the following configuration:
set system services rest http
set system services rest https
After enabling the service, API requests can be made to interact with the device for automation tasks, without needing the complexity of SSH or NETCONF configuration.
Why the Other Options Are Incorrect:
B . It must use SSH for a connection: This is incorrect. The Junos REST API uses HTTP or HTTPS for communication, not SSH. While SSH is commonly used for NETCONF, it is not required for REST API connections. REST APIs operate over standard web protocols.
C . NETCONF is not supported: This is incorrect. Junos supports both REST API and NETCONF for automation and

configuration management. NETCONF is an XML-based protocol used for device configuration, which operates over SSH. The REST API and NETCONF can coexist on the same device, offering multiple avenues for automation.

Juniper Automation in DevOps Context: The simplicity and flexibility of the Junos REST API make it ideal for DevOps automation tasks. It allows teams to easily interact with Junos devices using lightweight RESTful methods, integrating with external systems through formats like CSV. The ease of configuration supports rapid deployment and scaling of automated management tasks.

Reference from Juniper Documentation:

Junos REST API Documentation

NEW QUESTION # 27

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

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

Answer: C

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 # 28

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