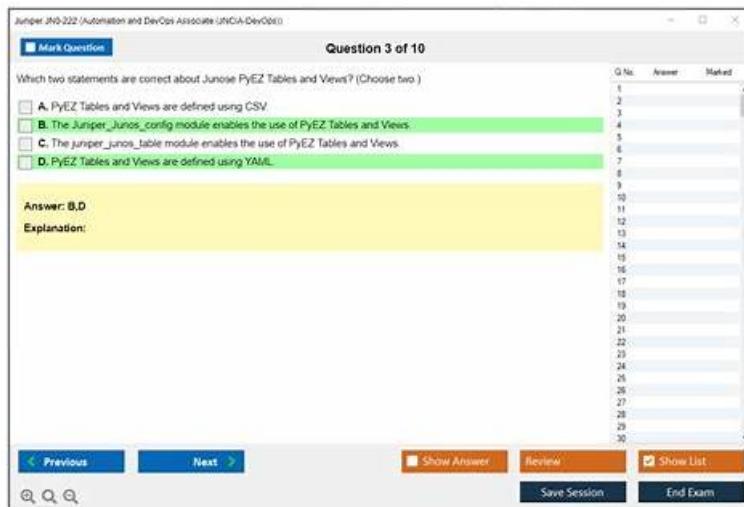


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## Juniper JN0-224 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Data Serialization: This domain addresses YAML and JSON formats used for structured data representation and exchange in network automation workflows.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• NETCONF</li><li>• XML API: This domain focuses on XML syntax, XPath expressions, NETCONF protocol, and XML API functionality for programmatic device configuration and communication.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• Python</li><li>• PyEZ: This domain examines Python programming with PyEZ library for Junos automation, including JSNAPy, Jinja2 templates, RPC calls, exception handling, and device configuration management.</li></ul>

Topic 4	<ul style="list-style-type: none"> <li>Rest API: This domain covers Junos REST API implementation, REST API Explorer tool, and cURL usage for HTTP-based device management and configuration.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>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.</li> </ul>

## Juniper Automation and DevOps, Associate (JNCIA-DevOps) Sample Questions (Q25-Q30):

### NEW QUESTION # 25

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. event script
- B. op script
- C. commit script**
- D. SNMP 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 # 26

Which two statements are valid regarding Junos automation? (Choose two.)

- A. The mod process handles XML API calls.
- B. The jsd process handles XML API calls.**
- C. The mgd process handles JET API requests.
- D. The jsd process handles JET API requests.**

**Answer: B,D**

Explanation:

In Junos automation, several processes handle API requests, and understanding which process handles what is crucial:

jsd Process:

XML API Calls (A): The jsd process is responsible for handling XML API calls, which are a significant part of Junos automation. XML API allows for structured and standardized communication with Junos devices, enabling automation scripts to query and configure devices.

JET API Requests (C): The jsd process also handles JET (Junos Extension Toolkit) API requests. JET provides a more modern, programmable interface for interacting with Junos OS, and jsd is the process that manages these interactions.

mgd Process (Incorrect Option):

Not for JET API Requests: The mgd process handles general management operations, such as CLI commands and managing the configuration database, but it does not handle JET API requests. That role is fulfilled by jsd.

mod Process (Incorrect Option):

Not for XML API Calls: The mod process deals with managing chassis components and is not involved in handling XML API calls.

Reference:

Juniper Networks JET and XML API Documentation: Describes the roles of jsd in handling both XML and JET API requests.  
Junos Automation and DevOps Documentation: Provides insights into how different processes interact with Junos APIs.

### NEW QUESTION # 27

Exhibit.

You have the configuration shown in the exhibit, but are unable to access the REST API Explorer.

Which configuration is necessary to solve this problem?

- A. Configure an IPv4 address on ge-0/0/0 0.
- B. Configure a firewall filter to explicitly permit SSH.
- C. Configure the rest service to be active on port 80.
- D. **Configure a secondary IPv6 address on ge-0/0/0.0.**

**Answer: D**

### NEW QUESTION # 28

Exhibit.

Referring to the exhibit, which two statements about the script are correct? (Choose two.)

- A. The script retrieves the interface configuration in XML
- B. **The script prints the name of each configured interface.**
- C. **The script retrieves the interface configuration in JSON.**
- D. The script prints interface information for each interface name.

**Answer: B,C**

### NEW QUESTION # 29

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

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

**Answer: A,B**

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 # 30

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