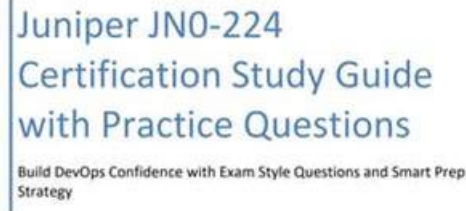


Juniper JN0-224 Fragenkatalog - JN0-224 Fragenpool



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The Juniper JN0-224 JNCIA-DevOps Study Guide is a structured preparation resource designed to help candidates pass the Automation and DevOps Associate certification exam. This guide provides a clear overview of the exam format, scoring structure, registration process, and effective preparation strategies.

Inside this PDF, you will find carefully crafted practice questions that reflect real exam scenarios and strengthen your understanding of automation concepts within Junos environments. Designed for IT professionals pursuing DevOps and network automation skills, this guide supports focused preparation and builds confidence for the JN0-224 certification exam.

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Juniper JN0-224 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Junos APIs and Data Formats	25%	- JSON and REST API • 1. JET (Juniper Extension Toolkit) overview • 2. REST API concepts and Junos support • 3. JSON data format usage in Junos - XML and NETCONF • 1. NETCONF protocol operations and sessions • 2. XML API calls for configuration and operational data • 3. XPath for data filtering and extraction

Topic 2: Network Automation	25%	- Configuration Management • 1. Configuration commits and confirmed commits • 2. Configuration rollback and rescue • 3. Configuration data formats (XML, JSON, Set) - Automation Tools and Concepts • 1. PyEZ library for Python • 2. Jinja2 templates for configuration generation • 3. Ansible and Ansible playbooks for Junos
Topic 3: Network DevOps and Orchestration	10%	- Continuous Integration and Deployment • 1. Testing and validation automation • 2. Version control for network configurations • 3. CI/CD pipeline concepts for network devices - Orchestration Tools • 1. Overview of network orchestration platforms • 2. Integration with third-party tools • 3. Workflow automation principles
Topic 4: Junos OS Automation Scripts	20%	- Commit, Op, Event, and SNMP Scripts • 1. SNMP scripts for MIB extension • 2. Event scripts for event-driven automation • 3. Op scripts for operational commands • 4. Commit scripts for configuration validation - SLAX and Python Scripting • 1. Script library locations and execution • 2. Python for Junos scripting • 3. SLAX language basics
Topic 5: Platform Fundamentals	20%	- Junos OS Architecture and Components • 1. Junos daemons and processes • 2. Junos file systems and snapshots • 3. Routing Engine and Packet Forwarding Engine - CLI and Configuration Basics • 1. Configuration hierarchies and groups • 2. Rescue configuration • 3. CLI operational and configuration modes

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Juniper Automation and DevOps, Associate (JNCIA-DevOps) JN0-224 Prüfungsfragen mit Lösungen (Q54-Q59):

54. Frage

Junos supports which two APIs for on-box scripting? (Choose two.)

- **A. JET**
- **B. XML**
- C. Chef
- D. Puppet

Antwort: A,B

Begründung:

Juniper Networks' Junos operating system supports several APIs for on-box scripting, two of which are:

JET (Juniper Extension Toolkit): JET is a modern API framework that provides a programmable interface for interacting with Junos. It allows developers to create custom applications that run directly on Junos devices, enabling the automation of network operations. JET provides both a gRPC and a REST API interface, allowing for flexible integration with external systems.

XML API: The Junos XML API allows direct interaction with the Junos OS through XML-based requests. This API can be used to retrieve information, configure devices, and execute commands on Junos devices. The XML API is crucial for automation tasks as it provides a structured and consistent way to interact with the device's configuration and operational data.

Detailed Explanation:

JET (A) provides high-performance access to Junos routing, switching, and service elements via programmable interfaces. It is highly used for creating custom applications that require tight integration with the Junos OS.

XML (C), on the other hand, is a well-established method for interacting with Junos, especially for legacy systems or when working within environments where XML is the standard data format.

Other options like Puppet (B) and Chef (D) are not APIs provided by Junos for on-box scripting but are configuration management tools used externally to manage Junos devices.

Reference:

Juniper Networks JET Documentation: Provides details on how to leverage JET APIs for automation.

Junos XML Management Protocol Guide: Describes how to use XML for scripting and automating tasks in Junos.

These APIs are key components of Juniper's automation strategy, allowing for scalable, flexible, and efficient network operations.

55. Frage

A REST API client uses which two HTTP methods to execute RPC requests on the server? (Choose two.)

- **A. GET**
- B. HEAD
- **C. POST**
- D. CONNECT

Antwort: A,C

Begründung:

REST APIs use HTTP methods to perform different operations on resources. In the context of RPC (Remote Procedure Call) requests:

GET: This method is used to retrieve data from the server. In a REST API, it is commonly used to fetch information about resources, such as the current configuration or operational state.

POST: This method is used to send data to the server to create or update a resource. In the context of RPC, POST is often used to execute a procedure on the server that may result in the modification of a resource or triggering of an action.

Options B (HEAD) and D (CONNECT) are not typically used for executing RPC requests:

HEAD is similar to GET but only retrieves the headers, not the body of the response.

CONNECT is used to establish a tunnel to the server, primarily for SSL-encrypted communication, and is not commonly associated with RESTful RPC operations.

Supporting Reference:

Juniper Networks REST API Documentation: The documentation provides detailed information about the use of HTTP methods in Juniper's RESTful services.

"RESTful Web Services" by Leonard Richardson and Sam Ruby: This book explains the principles of REST and how different HTTP methods, particularly GET and POST, are used to interact with RESTful APIs.

56. Frage

Why is a REST API considered stateless?

- A. The state of the server is not important when making requests.
- B. No client context is stored on the server between requests.
- C. The REST API is an international API.
- **D. The client requests to the server do not include state information.**

Antwort: D

57. Frage

Which two processes are used by Junos automation? (Choose two.)

- **A. kmd**
- B. ifd
- C. mod
- **D. jsd**

Antwort: A,D

Begründung:

Junos automation relies on several key processes to handle various automation and API interactions. Let's break down the two key processes involved:

jsd (Junos Script Daemon):

The jsd process is responsible for handling automation scripts, including Python and SLAX scripts, as well as handling JET (Junos Extension Toolkit) API requests. This process is fundamental in the automation framework of Junos, as it deals with external and internal API requests, ensuring that the necessary scripts are executed when specific triggers or events occur.

kmd (Key Management Daemon):

The kmd process is involved in key management for IPsec and other security services. While its primary function is related to managing cryptographic keys, it plays a role in Junos automation by enabling secure communication and ensuring that automation tasks involving security services (such as automated IPsec tunnel creation) are handled securely.

Why the Other Options Are Incorrect:

A . mod: This process doesn't exist as part of the Junos automation framework. It's likely a distractor.

C . ifd: The ifd process is associated with the physical interfaces on the device and does not play a role in automation or script processing.

Reference from Juniper Documentation:

Junos Automation Processes

58. Frage

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

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

Antwort: B,D

Begründung:

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.

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