

Juniper JN0-423

Automation and DevOps - Specialist (JNCIS-DevOps)

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Question: 1

Which process is primarily responsible for managing configuration and state in Junos OS?

- A. rpd
- B. mgd
- C. chassisd
- D. jsd

Answer: B

Explanation:

The mgd (management daemon) handles configuration and CLI interactions in Junos OS. It processes user input, applies configuration changes, and communicates with other daemons. Without mgd, configuration and operational commands cannot be executed. It is the foundation of MGD-based automation since automation tools rely on it to push changes. Thus, mgd is central to platform automation.

Question: 2

Which of the following are functions of mgd in automation? (Choose two)

- A. Managing Junos routing protocols
- B. Handling CLI requests
- C. Serving NETCONF requests
- D. Collecting interface statistics

Answer: B, C

Explanation:

MGD acts as the main automation entry point for Junos OS. It manages CLI parsing and execution, and it also provides programmatic access via NETCONF. While routing protocols are handled by rpd, and statistics by other daemons, mgd is the bridge between manual configuration and automated workflows. This makes it essential for automation frameworks.

Question: 3

Which transport protocol is typically used when Junos supports NETCONF sessions?

- A. UDP
- B. TCP over port 830
- C. HTTP on port 8080
- D. gRPC

Answer: B

Explanation:

NETCONF on Junos typically runs over SSH using TCP port 830. This ensures encrypted, secure communication between clients and Junos devices. Automation tools like Ansible, NAPALM, and PyEZ rely on this channel to push configuration and gather data. UDP and HTTP are not valid for NETCONF, and gRPC is a different telemetry protocol.

Question: 4

Which Junos automation feature allows structured streaming telemetry instead of polling SNMP data?

- A. NETCONF
- B. gNMI
- C. Jinja2 templates
- D. JSON-RPC

Answer: B

Explanation:

gNMI (gRPC Network Management Interface) is used for structured telemetry streaming in Junos. Unlike SNMP polling, telemetry sends continuous data streams, reducing overhead and improving real-time visibility. It is implemented over gRPC, providing high-performance monitoring. NETCONF is more suited to configuration management, not continuous telemetry.

Question: 5

Which two telemetry protocols are supported by Junos OS? (Choose two)

- A. gRPC
- B. SNMP v1
- C. gNMI
- D. SOAP

Answer: A, C

Explanation:

Junos OS provides telemetry using gRPC and gNMI, enabling efficient, structured streaming of operational data. These protocols improve monitoring and analytics by offering real-time feeds. SNMP v1 is outdated and polling-based, while SOAP is not used for Junos telemetry. Modern automation prefers

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