

JN0-221^{Q&As}

Automation and DevOps, Associate

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QUESTION 1

Which Junos system process handles NETCONF automation commands?

- A. snmpd
- B. eventd
- C. mgd
- D. jsd

Correct Answer: BC

Reference: <https://www.oreilly.com/library/view/automating-junos-administration/9781491928875/ch01.html>

QUESTION 2

While conducting an automation test, you must issue a command using the curl tool to request the text formatted output from the show interfaces ge-0/0/0 terse command.

In this scenario, which command would you use?

- A. curl -u "lab:lab123" "http://10.210.10.155:3000/rpc/get-interface-informationandformat=textandinterfacename=ge-0/0/0andterse="
- B. curl -u "lab:lab123" "http://10.210.10.155:3000/rpc/get-interface-information@interface-name=ge0/0/0?terse="
- C. curl -u "lab:lab123" "http://10.210.10.155:3000/rpc/get-interface-information@format=textandinterfacename=ge-0/0/0?terse="
- D. curl -u "lab:lab123" "http://10.210.10.155:3000/rpc/get-interface-information@format=text?interfacename=ge-0/0/0andterse="

Correct Answer: B

QUESTION 3

What is the default port for NETCONF connections over SSH?

- A. 22
- B. 830
- C. 443
- D. 8080

Correct Answer: A

Reference: [https://www.juniper.net/documentation/en_US/junos/topics/reference/configuration-statement/port-edit-system-services-netconf.html#:~:text=The%20default%20SSH%20port%20\(22,in%20the%20login%20event%20script](https://www.juniper.net/documentation/en_US/junos/topics/reference/configuration-statement/port-edit-system-services-netconf.html#:~:text=The%20default%20SSH%20port%20(22,in%20the%20login%20event%20script)

QUESTION 4

Click the Exhibit button.

```
#!/usr/bin/python

from jnpr.junos import Device
from pprint import pprint
from lxml import etree

with Device("172.25.11.1", user="lab", passwd="lab123") as dev:
    config_data = dev.rpc.get_config(filter_xml="interfaces", options={"format": "json"})

    print("Configured interfaces:")
    for interface in config_data["configuration"]["interfaces"]["interface"]:
        print(interface["name"])
```

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

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

Correct Answer: BD

QUESTION 5

Which statement about using Ansible with a Junos device is correct?

- A. Ansible modules are executed on the control server
- B. SFTP must be used to allow communication between the Ansible control server and the Junos device
- C. An Ansible agent must be installed and running on the Junos device
- D. An Ansible playbook is a set of tasks written in XML

Correct Answer: C

Reference: <https://dataplumber.wordpress.com/2016/10/18/ansible-and-junos/>

QUESTION 6

Click the Exhibit button.

```
{ "interface": "ge-0/0/1.0" }
```

Which type of data is contained in the key of the JSON object shown in the exhibit?

- A. string
- B. name
- C. integer
- D. interface

Correct Answer: D

QUESTION 7

Click the exhibit button.

```
---
- name: Gathering Junos facts
  hosts: router1
  connection: local
  gather_facts: no
  roles:
    - Juniper.junos
  vars_prompt:
    - name: USERNAME
      prompt: Username
      private: no
    - name: USERPASS
      prompt: password
      private: yes
  tasks:
    - name: Get Junos facts
      junos_get_facts:
        host: "{{ inventory_hostname }}"
        user: "{{ USERNAME }}"
        passwd: "{{ USERPASS }}"
        register: junos
    - name: Print the Junos facts
      debug:
        var: junos
```

Which type of file is shown in the exhibit?

- A. Puppet manifest
- B. XML file
- C. Ansible playbook
- D. XSLT file

Correct Answer: C

Reference: https://www.juniper.net/documentation/en_US/junos-ansible/topics/task/operational/junosansible-device-facts-retrieving.html

QUESTION 8

Ansible playbooks are written in which format?

- A. XML
- B. Python
- C. JSON
- D. YAML

Correct Answer: C

Reference: https://www.juniper.net/documentation/en_US/junos-ansible/topics/topic-map/junos-ansibleconfiguration-loading-committing.html#:~:text=Starting%20in%20Junos%20OS%20Release,configuration%20data%20in%20JSON%20format

QUESTION 9

What are two components of the Waterfall model of software development? (Choose two.)

- A. a large volume of code changes between releases
- B. a small volume of code changes between releases
- C. a short interval of time between releases
- D. a long interval of time between releases

Correct Answer: AD

Reference: <https://resources.whitesourcesoftware.com/blog-whitesource/sdlc-software-development-lifecycle>

QUESTION 10

Which Python code block is an example of a context manager?

- A. while True: device – Device(host="vmx-1", user="lab", passwd="lab123") ...
- B. try: device – Device(host="vmx-1", user="lab", passwd="lab123")
- ...
- except:
- print("Unable to connect to the vMX1")
- C. with Device(host="vmx-1", user="lab", passwd="lab123") as device: ...
- D. for host in ["vmx-1", "vmx-2"]: device – Device(host=host, user="lab", passwd="lab123") ...

Correct Answer: B

Reference: <https://packetpushers.net/using-python-context-managers/>

QUESTION 11

Click the Exhibit button.

```
---
- name: "Get Junos OS configuration."
  hosts: junos-all
  roles:
    - Juniper.junos
  connection: local
  gather_facts: no

  tasks:
    - name: "Get configuration"
      juniper_junos_config:
        retrieve: "committed"
        filter: "system/services"
        dest_dir: "{{ playbook_dir }}"
```

Referring to the exhibit, what will be two results of this playbook before saving it to a file? (Choose two.)

- A. to include everything but the system/services
- B. to retrieve the committed configuration
- C. to include only the system/services
- D. to retrieve the candidate configuration

Correct Answer: BC

QUESTION 12

Click the Exhibit button.

```
---
- name: Update JunOS Configuration
  hosts: firewalls
  roles:
    - Juniper.junos
  connection: local
  gather_facts: no
  tasks:
    - name: Checking NETCONF
      wait_for:
        _host: "{{ inventory_hostname }}"
        port: 830
        sleep: 30
    - name: Update Config
      juniper_junos_config:
        load: set
        src: "{{ inventory_hostname }}.conf"
        host: "{{ mgmt_ip }}"
        user: "{{ username }}"
        ssh_private_key_file: "{{ playbook_dir }}/{{ rsa_key_name }}"
        timeout: 180
      register: out
```

Referring to the exhibit, what is the function of the register key?

- A. to set an input value for the juniper_junos_rpc module
- B. to configure a global setting for the playbook
- C. to define a variable containing the return value from the module
- D. to print a result to standard out

Correct Answer: C

QUESTION 13

Which Ansible Playbook play parameter will prevent the system from copying the playbook to the Junos devices?

- A. serial
- B. gather_facts
- C. environment
- D. connection

Correct Answer: D

QUESTION 14

Click the Exhibit button.

```
---
- name: Load and commit configuration
  hosts: R1
  roles:
    - Juniper.junos
  connection: local
  gather_facts: no

  tasks:
    - name: Load configuration and commit
      juniper_junos_config:
        load: "merge"
        src: "build_conf/{{ inventory_hostname }}/junos.conf"
      register: response
    - name: Print the response
      debug:
        var: response
```

Referring to the exhibit, where would the junos.conf file be found?

- A. a directory on juniper_junos_config
- B. a directory located on R1
- C. a local directory on the Ansible control machine
- D. a directory on the device list in inventory_hostname

Correct Answer: C

QUESTION 15

Which two statements about DevOps are correct? (Choose two.)

- A. DevOps is a methodology that allows for frequent, quick modifications
- B. DevOps is a methodology that ensures that collaboration does not occur across organizational boundaries
- C. DevOps is a methodology used to develop software or systems
- D. DevOps is a methodology that is limited to small codebase development

Correct Answer: AC

Reference: <https://www.juniper.net/us/en/products-services/what-is/devnetops/>

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