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Automation and DevOps, Associate

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**QUESTION 1**

As part of an application to manage network devices, you must query hundreds of network devices and return the unique set of IP prefixes blocked by configured firewall filters. To accomplish this task, you will require a mutable data type that contains unordered, unique elements.

Which Python data type will fulfill these requirements?

- A. dictionaries
- B. lists
- C. tuples
- D. sets

Correct Answer: C

Reference: <https://docs.python.org/2/library/sets.html>

QUESTION 2

Which statement is correct about Infrastructure as Code (IaC)?

- A. It is an infrastructure that runs identical operating systems
- B. It is an infrastructure where devices are entirely virtualized
- C. It is an infrastructure that is used for beta code testing
- D. It is an infrastructure where devices are managed like software

Correct Answer: D

Reference: <https://www.vmware.com/topics/glossary/content/infrastructure-as-code>

QUESTION 3

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

- A. All Ansible host and group variables must be defined in the `/etc/ansible/hosts` directory
- B. Groups can be nested and a device is allowed to participate in multiple groups
- C. Separate host and group variable files can be used for larger environments
- D. Groups cannot be nested and a device is allowed to participate only a single group

Correct Answer: AB

**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

What are two popular methods of data serialization? (Choose two.)

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

Correct Answer: AD

Reference: <https://docs.python-guide.org/scenarios/serialization/>

QUESTION 6

Which HTTP status code indicates a response to a successful request?

- A. 302
- B. 400



C. 500

D. 200

Correct Answer: D

Reference: https://www.juniper.net/documentation/en_US/junos-space-sdk/13.1/apiref/com.juniper.junos_space.sdk.help/html/reference/Commonbehav.html

QUESTION 7

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 8

Which two programming languages would be used for on-box scripting with Junos devices? (Choose two.)

A. Ansible

B. Python

C. XSLT

D. Puppet

Correct Answer: BC

Reference: https://eng.juniper.net/site/global/build/operating_system/junos/management_plane/on_box_automation/index.gsp

QUESTION 9

What is the outcome of the Python `a == b` operator?



- A. The variables will be added together
- B. The variables are compared to determine if they have the same value
- C. The variables are compared to determine if they have different data types
- D. The variables will be subtracted from each other

Correct Answer: B

QUESTION 10

Which two statements are correct about Junos PyEZ Tables and Views? (Choose two.)

- A. PyEZ Tables and Views are defined using YAML
- B. The juniper_junos_config module enables the use of PyEZ Tables and Views
- C. PyEZ Tables and Views are defined using CSV
- D. The juniper_junos_table module enables the use of PyEZ Tables and Views

Correct Answer: AD

Reference: https://www.juniper.net/documentation/en_US/junos-ansible/topics/topic-map/junos-ansibledata-retrieving-using-junos-pyez-tables.html

QUESTION 11

What is the advantage of using the REST API?

- A. The REST API enables Junos devices to participate in other REST management system environments
- B. The REST API is enabled by default on all Junos devices
- C. By default, the REST API retrieves data from a Junos device in CSV format
- D. By default, the REST API retrieves data from a Junos device in HTML format

Correct Answer: C

Reference: https://www.juniper.net/documentation/en_US/junos-space18.1/service-automation/topics/reference/general/junos-space-service-now-device-mgmt-overview.html

QUESTION 12

Click the Exhibit button.

```
>>> print(hardware_count)
```

```
{'MX960\\':10, 'SRX300\\': 22, 'QFX5100\\': 4}
```



Referring to the exhibit, what is the correct method to retrieve the value associated only with "MX960"?

- A. hardware_count.keys()
- B. hardware_count.values()
- C. hardware_count[0]
- D. hardware_count["MX960"]

Correct Answer: A

QUESTION 13

Click the Exhibit button.

```
bash$ cat site.yml
- name: Retrieve Device Information
  hosts: all
  roles:
    - Juniper.junos
  connection: local
  gather_facts: no
  tasks :
    - name: Get Junos device information
      juniper_junos_facts:
```

```
bash$ cat hosts
[all]
172.25.11.1
172.25.11.2
```

```
[all:vars]
ansible_user=lab
ansible_password=lab123
```

Referring to the exhibit, which statement about the Ansible Playbook is correct?

- A. The Ansible Playbook will report a syntax error
- B. The Ansible Playbook execution will fail
- C. The Ansible Playbook will prompt for credentials
- D. The Ansible Playbook will execute successfully

Correct Answer: C



QUESTION 14

Which statement about element nodes is correct?

- A. Only a single root element node is allowed
- B. Element nodes only consist of a single line of code
- C. Element nodes cannot be nested in other element nodes
- D. Only the root element node can contain other element nodes

Correct Answer: B

QUESTION 15

Which API does the Junos CLI use to modify the configuration database?

- A. REST API
- B. XML API
- C. JET API
- D. RPC API

Correct Answer: A

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