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Number: JN0-221
Passing Score: 800
Time Limit: 120 min
File Version: 1.0



JN0-221

Automation and DevOps, Associate (JNCIA-DevOps)

Version 1.0

Exam A

QUESTION 1
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
Section: (none)
Explanation

Explanation/Reference:
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 2
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
Section: (none)
Explanation

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

QUESTION 3
Which code format is a valid example of an HTTPS `get-interface-information` method using the default port?

A. `https://172.25.11.1:8443/api/get-interface-information`
B. `https://172.25.11.1:3443/get-interface-information`
C. `https://172.25.11.1:3443/rpc/get-interface-information`
D. `https://172.25.11.1/api/get-interface-information:3443`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/junos/topics/task/configuration/rest-api-submitting-post-request.html

QUESTION 4
Click the Exhibit button.

```
<rpc-reply xmlns:junos="http://xml.juniper.net/junos/20.1R0/junos">
     <software-information>
          <host-name>router</host-name>
          <product-model>mx240</product-model>
          <product-name>mx240</product-name>
          <junos-version>20.1R1.10</junos-version>
          <package-information>
            <name>os-kernel</name>
            <comment>JUNOS OS Kernel 64-bit [20200219.fb120e7_builder_stable_11]</comment>
          </package-information>
          <package-information>
            <name>os-libs</name>
            <comment>JUNOS OS libs [20200219.fb120e7_builder_stable_11]</comment>
          </package-information>
          <package-information>
            <name>os-runtime</name>
            <comment>JUNOS OS runtime [20200219.fb120e7_builder_stable_11]</comment>
...
     </software-information>
</rpc-reply>
```

Which command produces the output shown in the exhibit?

A. `user@router> show version | display xml`
B. `user@router# show version | display xml`
C. `user@router> show version | display json`
D. `user@router> show version | display xml rpc`

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/junos/topics/task/operational/junos-xml-protocol-rpcs-and-xml-mapping.html

QUESTION 5
Junos PyEZ is a microframework used to operate the Junos OS using which language?

A. Puppet

B. Chef
C. Python
D. Ruby

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/junos-pyez/topics/concept/junos-pyez-overview.html#:~:text=Junos%20PyEZ%20is%20a%20microframework,operating%20system%20(Junos%20OS).

QUESTION 6
Click the Exhibit button.

```
{
  "interface" : "ge-1/0/1.0",
  "address" : "192.168.1.1/24"
}
```

Referring to the exhibit, this snippet of code would represent which type of data?

A. JSON object
B. JSON array
C. YAML sequence
D. YAML mapping

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/junos-salt/topics/topic-map/junos-salt-configuration-loading-commiting.html

QUESTION 7
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
Click the Exhibit button.

```
Routers:
  - r1
  - r2
Switches:
  - s1:
    - interface: "ge-0/0/0.0"
```

Referring to the exhibit, which two code blocks are an equivalent representation in JSON? (Choose two.)

A. `{"Routers":["r1","r2"],"Switches":[{"s1":[{"interface":"ge-0/0/0.0"}]}]}`
B. `{"routers":["r1","r2"],"switches":[{"s1":[{"interface":"ge-0/0/0.0"}]}]}`

C.
```
{
 "Routers":{
     "r1",
     "r2"
 },
 "Switches":{
     {
      "s1":{
        {
          "interface": "ge-0/0/0.0"
        }
      }
     }
   }
}
```

D.
```
{
 "Routers":[
     "r1",
     "r2"
 ],
 "Switches":[
     {
      "s1":[
        {
          "interface": "ge-0/0/0.0"
        }
      ]
     }
   ]
}
```

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9
What is the default port for NETCONF connections over SSH?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
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

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
Section: (none)
Explanation

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

QUESTION 11
What are two popular methods of data serialization? (Choose two.)

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

Correct Answer: AD
Section: (none)
Explanation

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

QUESTION 12
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
Section: (none)
Explanation

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

QUESTION 13
What is a valid JSON object?

A. `"hostname:vmx-1"`
B. `{ "hostname": "vmx-1"}`
C. `["vmx-1:172.25.11.1"]`
D. `{"vmx-1", "172.25.11.1"}`

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/day-one-books/DO_Automating_SALT.pdf (53)

QUESTION 14
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
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
Section: (none)
Explanation

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

QUESTION 17
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
Section: (none)
Explanation

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

QUESTION 18
Which two statements about Ansible are true? (Choose two.)

A. Ansible modules only execute a change if required
B. By default, Ansible core modules use NETCONF to connect to the remote host
C. By default, Ansible playbooks are executed locally
D. Ansible uses an agentless architecture

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/junos-ansible/topics/concept/junos-ansible-overview.html#:~:text=Ansible%20uses%20an%20agentless%20architecture,software%20on%20the%20managed%20nodes.&text=Thus%2C%20Ansible%20users%20can%20get,of%20Python%20to%20use%20Ansible

QUESTION 19
Which two Python packages use NETCONF to interact with Junos devices? (Choose two.)

A. `numpy`
B. `jsnapy`
C. `junos-eznc`
D. `pyyaml`

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20
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
Section: (none)
Explanation

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

QUESTION 21
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22
Which two processes does Junos automation use? (Choose two.)

A. chassisd
B. jsd
C. dcd
D. mgd

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:
Reference: https://coggle.it/diagram/XW0atWn5-1ccZJer/t/junos-automation-stack

QUESTION 23
You are using the curl tool to include multiple RPCs in a REST API request.

Which HTTP method must be used for this request?

A. GET
B. PUT

C. POST
D. HEAD

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/junos/topics/example/rest-api-explorer-example.html

QUESTION 24
What are two examples of XPath axes? (Choose two.)

A. grandchild
B. sibling
C. parent
D. grandparent

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/junos/topics/concept/junos-script-automation-xpath-overview.html

QUESTION 25
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26
According to the Manifesto for Agile Software Development, what is the highest priority?

A. continuous attention to technical excellence and good design enhances quality
B. a well-documented statement of work created before the development cycle begins
C. on-time software releases based on a quarterly or semi-annual time frame
D. customer satisfaction obtained through continuous delivery of valuable software

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://airfocus.com/glossary/what-is-agile-manifesto/#:~:text=The%20highest%20priority%20is%20to,continuous%2C%20delivery%20of%20valuable%20software

QUESTION 27
Click the Exhibit button.

```
---
- name: Retrieve interfaces configuration
  hosts: vMX-1
  roles:
   - Juniper.junos
  connection: local
  gather_facts: no

  vars_prompt:
   - name: USERNAME
     prompt: User name
     private: no
   - name: DEVICE_PASSWORD
     prompt: Device password
     private: yes

   tasks:
   - name: Retrieve the configuration
     juniper_junos_config:
       user: "{{ USERNAME }}"
       passwd: "{{ DEVICE_PASSWORD }}"
       retrieve: committed
       filter: interfaces
   register: response

   - name: Print the lines in the config
     debug:
       var: response.config lines
```

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

A. The configuration will be retrieved in JSON format
B. The retrieved configuration will be from the Junos active configuration
C. The retrieved configuration will be from the Junos candidate configuration
D. The configuration will be retrieved in XML format

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
PyEZ supports which three connection methods? (Choose three.)

A. Telnet
B. RESTCONF
C. REST

D. console
E. NETCONF

Correct Answer: ADE
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/junos-pyez/topics/task/program/junos-pyez-connection-methods.html#:~:text=Junos%20PyEZ%20Users.-,Connection%20Methods%20Overview,CONSOLE%20port%20on%20a%20device

QUESTION 29
You are asked to develop a PyEZ application that will connect to multiple Junos devices using the XML API and perform an asset inventory.

Which standards-based protocol should you use to perform this task?

A. NETCONF
B. THRIFT
C. gRPC
D. MQTT

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/junos-pyez/topics/task/program/junos-pyez-rpcs-executing.html

QUESTION 30
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 31
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 32
Click the Exhibit button.

```
Python 3.5.2 (default, Apr 16 2020, 17:47:17)
[GCC 5.4.0 20160609] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> my_list - ["a", "b", "c", "d", "e", "f", "g"]
>>> x - my_list[1:3]
>>> print(x)
```

Referring to the exhibit, what is the output from the `print(x)` line?

A. `['b', 'c']`
B. `['b', 'c', 'd']`
C. `['a', 'b', 'c']`
D. `['a', 'b']`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33

What is an example of correct XML syntax?

A. `<Devices><hostname>vMX1<Devices/>`
B. `<Devices><hostname>vMX1</hostname><Devices/>`
C. `<Devices><hostname>vMX1</hostname></Devices>`
D. `<Devices><hostname>vMX1<Devices/></hostname>`

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/day-one-books/archive/DO_Navigating_Junos_XML_Hierarchy.pdf

QUESTION 34
Ansible playbooks are written in which format?

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

Correct Answer: C
Section: (none)
Explanation

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

QUESTION 35
In Python, `my_list = [1, 2, 3]` is an example of which type of operation?

A. membership
B. comparison
C. assignment
D. bitwise

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36
Which Ansible module would be used to obtain basic information about a Junos device?

A. `juniper_junos_facts`
B. `juniper_junos_info`
C. `juniper_junos_rpc`
D. `juniper_junos_config`

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://docs.ansible.com/ansible/latest/collections/junipernetworks/junos/junos_facts_module.html

QUESTION 37
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 38
Click the Exhibit button.

```
<get-route-information>
<table>inet.0</table>
</get-route-information>
```

You need to translate the configuration shown in the exhibit into a PyEZ RPC call.

Which line shows the proper PyEZ syntax?

A. `dev.rpc.get_route_information(table="inet.0")`
B. `dev.rpc.get-route-information(table="inet.0")`
C. `dev.rpc.get_route_information:table="inet.0"`
D. `dev.rpc.get-route-information:table="inet.0"`

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/junos-pyez/topics/task/program/junos-pyez-rpcs-executing.html

QUESTION 39
What are three elements of Infrastructure as Code (IaC)? (Choose three.)

A. code review
B. integration
C. flow
D. feedback
E. version control

Correct Answer: BCE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 40
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 41
Which statement is correct about the Junos XML API?

A. The API uses HTTPS for securing off-box automation
B. The API uses NETCONF for off-box automation
C. The API only works for on-box automation tools
D. The API is only executed when a configuration is committed

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://community.juniper.net/communities/community-home/digestviewer/viewthread?MID=72432#bm80024cfe-d18e-40c7-9798-1fd3cbf860f7

QUESTION 42
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 43
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 44
You are asked to write an automation script using Python. When you execute the script, you notice that your code sends an `RpcTimeoutError` error.

In this scenario, what would be the reason for this error?

A. The Python script was not able to connect to the Juniper device
B. The Juniper device rejects the connection
C. The Juniper device took too long to reply to the RPC call
D. The RPC syntax is incorrect

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 45
Click the Exhibit button.

```
<rpc-reply xmlns:junos="http://xml.juniper.net/junos/20.1R0/junos">
  <configuration junos:commit-seconds="1580766004" junos:commit-localtime="2020-02-03 21:40:04 UTC"
junos:commit-user="lab">
      <interfaces>
            <interface>
                  <name>fxp0</name>
                  <unit>
                    <name>0</name>
                    <family>
                        <inet>
                           <address>
                              <name>172.25.11.1/24</name>
                           </address>
                        </inet>
                    </family>
                  </unit>
            </interface>
      </interfaces>
  </configuration>
</rpc-reply>
```

In the XML output shown in the exhibit, what is the full XPath for the IP address of the interface?

A. `/interface/unit/family/inet/address`
B. `/configuration/interface/unit/family/inet/address`
C. `/configuration/interfaces/interface/unit/family/inet/address/name`
D. `/interfaces/interface/unit/family/inet/address`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 46
What will determine which data serialization format is used for interfacing with a system?

A. programming language version
B. the operating system
C. IDE specifications
D. the system's API

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 47
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 48
Which `curl` command will successfully retrieve interface information from a Juniper device?

A. `curl -u "lab:lab123" https://10.200.1.1:3443/rpc/get-interface-information -X POST`
B. `curl -u "lab:lab123" http://10.200.1.1:3000/rpc/get-interface-information -X GET`
C. `curl -u "lab:lab123" https://10.200.1.1:8443/rpc/get-interface-information -X GET`

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/junos/topics/task/configuration/rest-api-submitting-get-request.html

QUESTION 49
Which XML shorthand notation is used when no data exists between tags?

A. `<data*>`
B. `<data+>`
C. `</data/>`
D. `<data/>`

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 50
Which HTTP status code indicates a response to a successful request?

A. 302
B. 400
C. 500
D. 200

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

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 51
Click the Exhibit button.

```
---
- name: Get device information
  hosts: R1
  roles:
  - Juniper.junos
  connection: local
  gather_facts: no

  tasks:
  - name: Get software and uptime information
    juniper_junos_rpc:
      rpcs:
       - "get-system-uptime-information"
      dest_dir: "{{ playbook_dir }}"
```

Referring to the exhibit, which statement is correct?

A. The RPC execution output is saved to a file on the Ansible control machine
B. The RPC execution output is not saved
C. The RPC execution output is saved to a file on R1
D. The RPC execution output is saved to memory on R1

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 52
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
Section: (none)
Explanation

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

QUESTION 53
Given the `<name> username </name>` XML code, what is the information between the opening and closing tags called?

A. name node
B. data node

C. text node
D. element node

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.juniper.net/documentation/en_US/junos/topics/concept/junos-script-automation-xml-overview.html

QUESTION 54
Which two tools should be used to test REST APIs? (Choose two.)

A. curl
B. Puppet
C. Chef
D. Postman

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:
Reference: https://rickmur.com/using-the-junos-space-rest-api/

QUESTION 55
Which two statements about Junos PyEZ RPC(s) are correct? (Choose two.)

A. PyEZ RPCs return XML data
B. PyEZ RPCs can be used to view only the interface configuration
C. PyEZ RPCs can be used to view the active device configuration
D. PyEZ RPCs return CSV data

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 56
What is the purpose of an XSD file?

A. to define the allowed elements and hierarchy of an XML document
B. to define the scripting language of an XML document
C. to define the security and access permissions for an XML document
D. to define the shortcuts that can be used in an XML document

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.proficomms.cz/files/datasheets/Juniper/junosos.pdf (p.4)

QUESTION 57
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
Section: (none)
Explanation

Explanation/Reference:
Reference: https://resources.whitesourcesoftware.com/blog-whitesource/sdlc-software-development-life-cycle

QUESTION 58
Which Junos system process handles NETCONF automation commands?

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

Correct Answer: BC
Section: (none)
Explanation

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

QUESTION 59
Which two programing languages would be used for on-box scripting with Junos devices? (Choose two.)

A. Ansible
B. Python
C. XSLT
D. Puppet

Correct Answer: BC
Section: (none)
Explanation

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

QUESTION 60
Which character is used to separate multiple parameters in a single REST API call?

A. &
B. #
C. ?
D. =

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
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 61

Which code block shows valid YAML syntax?

A.
```
Switches:
- s1
- s2
```
B.
```
Switches:
s1
s2
```
C.
```
Switches: {s1, s2}
```
D.
```
Switches: ["s1", "s2"]
```

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 62
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-
information&format=text&interface-name=ge-0/0/0&terse="
```
B.
```
curl -u "lab:lab123" "http://10.210.10.155:3000/rpc/get-interface-
information@interface-name=ge-0/0/0?terse="
```
C.
```
curl -u "lab:lab123" "http://10.210.10.155:3000/rpc/get-interface-
information@format=text&interface-name=ge-0/0/0?terse="
```
D.
```
curl -u "lab:lab123" "http://10.210.10.155:3000/rpc/get-interface-
information@format=text?interface-name=ge-0/0/0&terse="
```

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 63
Click the Exhibit button.

```
<rpc-reply xmlns:junos="http://xml.juniper.net/junos/20.1R0/junos">
  <configuration junos:commit-seconds="1589295982" junos:commit-localtime="2020-05-12 15:06:22
UTC" junos:commit-user="user">
            <interfaces>
                  <interface>
                     <name>ge-0/0/1</name>
                     <unit>
                        <name>0</name>
                        <family>
                           <inet>
                              <address>
                                 <name>192.168.10.1/24</name>
                              </address>
                           </inet>
                        </family>
                     </unit>
                  </interface>
                  <interface>
                     <name>fxp0</name>
                     <unit>
                        <name>0</name>
                        <family>
                              <inet>
                                 <address>
                                 <name>172.25.11.1/24</name>
                              </address>
                           </inet>
                        </family>
                     </unit>
                  </interface>
            </interfaces>
   </configuration>
</rpc-reply>
```

Referring to the exhibit, which XML XPath expression will only show the IP address XML elements?

A. `//address/name`
B. `//name`
C. `/name`
D. `/address/name`

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference: