

JN0-420^{Q&As}

Automation and DevOps, Specialist (JNCIS-DevOps)

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QUESTION 1

What is a valid method for determining the Junos RPC associated with the show version command?

A. Use the `var $rpc-show-version = <rpc> {
 <command> "show version";
}`

`var $show-version = jcs: execute ($connection, $rpc-show-version);
commands`

B. Use the `user@router> show version | display json groups command`

C. Use the `>>>from jnpr.junos import Device
>>> router = Device (host='192.168.1.1', user='root', passwd='pass123')
>>> router.open()
Device (192.168.1.1)
>>> router.display_xml_rpc ('show version', format='text') commands`

D. Use the `user@router> show version | display xml command`

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 2

What are three elements of a JET notification message? (Choose three)

A. time

B. severity

C. username

D. subscription type

E. hostname

Correct Answer: ABE

JET notification is delivered in JSON format. The JSON message has two parts, one the header, and other the event-information portion, called attributes. The header is common for all events. It contains the event ID, hostname, time, severity, and facility of the event. The attributes vary depending event's topic name. Reference: https://www.juniper.net/documentation/en_US/jet1.0/topics/concept/jet-notification-apioverview.html

QUESTION 3

Click the Exhibit button. Exhibit:

```
user@host:/home/user# ssh -s user@192.0.2.2 netconf
Password:
<!-- - No zombies were killed during the creation of this user interface -
-->
<!-- - user user, class j-super-user - -->
<hello xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <capabilities>
    <capability>urn:ietf:params:netconf:base:1.0</capability>
    <capability>urn:ietf:params:netconf:capability:candidate:1.0</capa
bility>
    <capability>urn:ietf:params:netconf:capability:confirmed-
commit:1.0</capability>
    <capability>urn:ietf:params:netconf:capability:validate:1.0</capa
bility>
    <capability>urn:ietf:params:netconf:capability:url:1.0?
scheme=http, ftp, file</capability>
    <capability>urn:ietf:params:xml:ns:netconf:base:1.0</capability>
    <capability>urn:ietf:params:xml:ns:netconf:capability:candidate:
1.0</capability>
    <capability>urn:ietf:params:xml:ns:netconf:capability:confirmed-
commit:1.0</capability>
    <capability>urn:ietf:params:xml:ns:netconf:capability:validate:1.0
</capability>
    <capability>urn:ietf:params:xml:ns:netconf:capability:url:1.0?
protocol=http, ftp, file</capability>
    <capability>http://xml.juniper.net/netconf/junos/1.0</capability>
    <capability>http://xml.juniper.net/dmi/system/1.0</capability>
  </capabilities>
  <session-id>7482</session-id>
</hello>
]]>]]>
```

An automation developer is using command-line scripting and wants to briefly survey NETCONF capabilities before running a new task.

Referring to the exhibit, how does the automation developer end the current NETCONF session and go to the next one?

- A. Use the command.
- B. Use the quit command
- C. Use the logout command
- D. Use the command.

Correct Answer: D

Reference: https://www.juniper.net/documentation/en_US/junos/topics/task/operational/netconf-sessionclosing.html

QUESTION 4

Which command is valid for accessing a Junos device using the RESTful API on the default port?

- A. curl http://192.168.1.1/rpc/get-interface-information?interface-name=1o0 -u "user:pass123"
- B. curl http://user:pass123@192.168.1.1/rpc/get-interface-information?interface-name=1o0
- C. curl -u "user:pass123" http://192.168.1.1:80/rpc/get-interface-information?interface-name=1o0
- D. curl http://user:pass123@192.168.1.1:3000/rpc/get-interface-information?interface-name=1o0

Correct Answer: C

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

QUESTION 5

Click the Exhibit button. Exhibit:

```
- - -
- name: Play 1
  hosts: localhost
  connection: local
  gather_facts: no
  tasks:
    - name: Task C
      command: /bin/true
    - name: Task B
      fail:
        msg: "Task B failed."
    - name: Task A
      command: /bin/true
```

Referring to the exhibit, what is the execution order of tasks in the Ansible playbook?

- A. Task A > Task B
- B. Task A > Task B > Task C
- C. Task C > Task B
- D. Task C > Task B > Task A

Correct Answer: A

Reference: http://docs.ansible.com/ansible/latest/playbooks_intro.html

QUESTION 6

Using the RESTful API on a Junos device, you are able to retrieve configuration information in which three formats? (Choose three)

- A. YAML
- B. XML
- C. plain text
- D. GPB E. JSON

Correct Answer: BCE

Reference: https://www.juniper.net/documentation/en_US/junos/information-products/pathway-pages/restapi/rest-api.html

QUESTION 7

Click the Exhibit button. Exhibit:

```
>>> response = dev.rpc.get_system_users_information(normalize=True)
>>> print etree.tostring(response, pretty_print=True)
<system-users-information>
  <uptime-information>
    <date-time seconds="1504327069">11:09AM</date-time>
    <up-time seconds="611640">7 days, 1:54</up-time>
    <active-user-count format="3 users">3</active-user-count>
    <load-average-1>0.41</load-average-1>
    <load-average-5>0.38</load-average-5>
    <load-average-15>0.40</load-average-15>
    <user-table>
      <user-entry>
        <user>user</user>
        <tty>pts/0</tty>
        <from>172.29.110.83</from>
        <login-time seconds="1504327069">9:10AM</login-time>
        <idle-time seconds="900">15</idle-time>
        <command>-cli (cli)</command>
      </user-entry>
      <user-entry>
        <user>user</user>
        <tty>pts/1</tty>
        <from>172.29.110.83</from>
        <login-time seconds="1504270697">10:51AM</login-time>
        <idle-time seconds="1020">17</idle-time>
        <command>-cli (cli)</command>
      </user-entry>
      <user-entry>
        <user>user</user>
        <tty>pts/2</tty>
        <from>172.29.110.83</from>

        <login-time seconds="1504029166">10:52AM</login-time>
        <idle-time seconds="1020">17</idle-time>
        <command>-cli (cli)</command>
      </user-entry>
    </user-table>
  </uptime-information>
</system-users-information>
```

Referring to the exhibit, which Python statement selects the element for the user logged in on the pts/2 TTY?

- A. `response.find("/uptime-information/user-table/user-entry/tty=\\'pts/2\\'")`
- B. `response.find("/uptime-information/user-table/[tty=\\'pts/2\\']/user-entry")`
- C. `response.find("../user-entry/[tty=\\'pts/2\\']")`
- D. `response.find("/uptime-information/user-table/user-entry@tty=\\'pts/2\\'")`

Correct Answer: B

QUESTION 8

You want to implement a function that is available in the Junos OS , but not defined in a standard model. Which statement would you use with YANG to accomplish this task?

- A. augment
- B. deviation
- C. case
- D. choice

Correct Answer: D

QUESTION 9

Your organization is creating a custom YANG module. You are asked to create a leaf node called timeout with a data type of duration.

In this scenario, what is the appropriate syntax for this leaf node?

```
A. timeout leaf {  
    description "timeout duration";  
    type duration;  
}
```

```
B. timeout leaf {  
    description "timeout duration";  
    typedef duration;  
}
```

```
C.leaf timeout {  
    description "timeout duration";  
    typedef duration;  
}
```

```
D.leaf timeout {  
    description "timeout duration";  
    type duration;  
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 10

Click the Exhibit button. Exhibit:

```
from jnpr.junos.device import Device  
  
dev = Device (host='router', user='user', passwd='user123', port=22)  
dev.open ()  
response = dev.rpc.get_interface_information (format="text", terse="yes")  
print (response)  
dev.close ()
```

Referring to the exhibit, which exception is raised if the RPC takes 40 seconds to return a complete response?

A. `jnpr.junos.exception.RpcError`

B. `jnpr.junos.exception.ConnectTimeoutError`

C. `jnpr.junos.exception.RpcTimeoutError`

D. `jnpr.junos.exception.LockError`

Correct Answer: C

Explanation: By default, the timeout value is 30 seconds, if this is exceeded a `jnpr.junos.exception.RpcTimeoutError` error is received.

QUESTION 11

Which statement describes the purpose of Ansible roles?

- A. A collection of hosts that have been categorized by purpose
- B. A collection of permissions for users of your Ansible setup
- C. A collection of tasks to be run on a given set of hosts
- D. A collection of Ansible playbooks

Correct Answer: C

Reference: http://docs.ansible.com/ansible/latest/playbooks_reuse_roles.html

QUESTION 12

What are two message types that compose the message layer of the Juniper NETCONF implementation? (Choose two?)

- A.
- B.
- C.
- D.

Correct Answer: CD

QUESTION 13

What are three supported languages for operational scripts on Junos devices? (Choose three)

- A. Python
- B. XSLT
- C. SLAX
- D. Java
- E. PHP

Correct Answer: ABC

Junos automation scripts can be written in the following scripting languages:

Extensible Stylesheet Language Transformations (XSLT)

Stylesheet Language Alternative syntaX (SLAX)

Python

Reference: https://www.juniper.net/documentation/en_US/junos/topics/concept/junos-script-automationoverview.html

QUESTION 14

What is the purpose of an `__init__.py` file?

- A. An `__init__.py` file initializes a Python application with default values for instantiated objects
- B. An `__init__.py` file indicates to the Python interpreter that a directory contains Python packages or modules
- C. `__init__.py` file sets all magic attributes with the `__init__` prefix with the appropriate default values
- D. An `__init__.py` file contains strings for additional directories that the Python interpreter adds to `sys.path` []

Correct Answer: B

QUESTION 15

Click the Exhibit button. Exhibit:

Python Script:

```
1 from jnpr.junos import Device
2 from jnpr.junos.utils.config import Config
3 from jnpr.junos.exception import *
4 from jinja2 import Template
5 import yaml
6 import sys
7
8
9     with open ('vMX-1.yml','r') as fh:
10         data = yaml.load (fh.read())
11
12     with open ('test.j2','r') as t_fh:
13         t_format = t_fh.read()
14
15     template = Template (t_format)
16
17     myConfig = template.render (data)
```

vMX-1.yml file:

```
- - -
intf1:
    name: 'ge-0/0/0'
    unit: 0
    family: inet
    address: 172.17.1.1
    cidr: 24
    bfd_intvl: 500
intf2:
    name: 'ge-0/0/1'
    unit: 0
    family: inet
    address: 172.17.3.1
```

```
    cidr:24
    bfd_intvl: 500
  intf3:
    name: 'lo0'
    unit: 0
    family: inet
    address: 192.168.1.1
    cidr: 32
```

```
AS: 65000
area: 0.0.0.0
```

test.j2 file:

```
interfaces {
  {{intf1.name}} {
    unit {{intf1.unit}} {
      family {{intf1.family}} {
        address {{intf1.address}} / {{intf1.cidr}};
      }
    }
  }
  {{intf2.name}} {
    unit {{intf2.unit}} {
      family {{intf2.family}} {
        address {{intf2.address}} / {{intf2.cidr}};
      }
    }
  }
  {{intf3.name}} {
    unit {{intf3.unit}} {
      family {{intf3.family}} {
        address {{intf3.address}} / {{intf3.cidr}};
      }
    }
  }
```

```

    }
  }
}
routing options {
  static {
    route 0.0.0.0/0 next-hop 172.25.11.254;
  }
  autonomous-system {{AS}};
}
protocols {
  ospf {
    area {{area}} {
      interface fxp0.0 {
        disable;
      }
      interface {{intf1.name}}. {{intf1.unit}} {
        bfd-liveness-detection {
          minimum-interval {{intf1.bfd_intvl}};
        }
      }
      interface {{intf2.name}}. {{intf2.unit}} {
        bfd-liveness-detection {
          minimum-interval {{intf2.bfd_intvl}};
        }
      }
      interface {{intf3.name}}. {{intf3.unit}};
    }
  }
}

```

Referring to the exhibit, what is the type of the myConfig variable on line 17 of the Python script?

- A. template
- B. dictionary
- C. string
- D. list

Correct Answer: A

Reference: https://www.juniper.net/documentation/en_US/cso3.1/topics/task/operational/cd-configtemplate-working-config-designing.html

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