

JN0-420^{Q&As}

Automation and DevOps, Specialist (JNCIS-DevOps)

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QUESTION 1

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 2

What are two benefits of network automation? (Choose two)

- A. to enforce consistency in automated devices
- B. to increase programming language fluency
- C. to provide historical configuration management
- D. to improve product lifecycle management

Correct Answer: AD

QUESTION 3

Which transport protocol must be supported by RFC-compliant NETCONF implementations?

- A. TLS
- B. Telnet
- C. BEEP
- D. SSH

Correct Answer: D

The NETCONF protocol uses a simple remote procedure call (RPC) layer running over secure transports to facilitate communication between a client and a server. The Secure Shell (SSH) [6] is the mandatory secure transport that all NETCONF clients and servers are required to implement as a means of promoting interoperability. Reference: https://link.springer.com/content/pdf/10.1007/978-3-642-02627-0_7.pdf

QUESTION 4

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: '1o0'
  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

QUESTION 5

Click the Exhibit button. Exhibit:

```
import sys
from jnpr.junos import Device
from jnpr.junos.exception import ConnectError

dev = Device(host='router1.example.net')
try:
    dev.open()
except ConnectError as err:
    print ("Cannot connect to device: {}".format (err))
    sys.exit(1)

print (dev.facts)
dev.close()
```

What will executing the program shown in the exhibit retrieve from a Junos device?

- A. the previous configuration changes of the device
- B. the current memory utilization
- C. the FPC inventory of the device
- D. the current software version on the device

Correct Answer: D

QUESTION 6

In SLAX, what is the difference between the `jcs:invoke ()` and the `jcs:execute ()` functions?

- A. RPCs called by `jcs:execute ()` are executed within an existing connection
- B. RPCs called by `jcs:invoke ()` are executed within an existing connection
- C. RPCs called by `jcs:invoke ()` are not executed until the conclusion of the script
- D. RPCs called by `jcs:execute ()` are not executed until the conclusion of the script

Correct Answer: A

QUESTION 7

Click the Exhibit button. Exhibit:

```
action = jcs.get_snmp_action  
oid = jcs.get_snmp_oid
```

Where would the Python code shown in the exhibit be used?

- A. a commit script
- B. an op script
- C. an event script
- D. an SNMP script

Correct Answer: D

Reference: https://www.juniper.net/documentation/en_US/junos/topics/reference/scripting/junos-scriptautomation-function-jcs-get-snmp-action.html

QUESTION 8

You want to enable an unsigned Python op script named inventory.py that will be stored on a local Junos device.

Which two commands are needed to accomplish this task? (Choose two)

- A. set system scripts op allow-url-for-python
- B. set system scripts op file inventory.py
- C. set system scripts op no-allow-url
- D. set system scripts language python

Correct Answer: BD

Reference: https://www.juniper.net/documentation/en_US/junos/topics/example/junos-script-automationop-script-changing-configuration-python.html

QUESTION 9

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 10

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 11

You are writing a SLAX op script to provide a customized rendition of the show interface output. You want to include a command-line argument named interface and provide it with the default value of fxp0. Which code snippet accomplishes this goal?

A. default \$interface = "fxp0";

B. argument \$interface = "fxp0";

C. param \$interface = "fxp0";

D. \$interface = "fxp0";

Correct Answer: C

Reference: "This Week Applying Junos Automation" By Curtis Call pages 32-33

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

Which two automation frameworks are agentless when managing Junos devices? (Choose two)

- A. SaltStack
- B. Ansible
- C. Puppet
- D. Chef

Correct Answer: AB

QUESTION 14

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 15

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

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