



# JN0-420<sup>Q&As</sup>

Automation and DevOps, Specialist (JNCIS-DevOps)

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### QUESTION 1

You are asked by your manager to automatically switch traffic from the primary link to the backup link on the MX Series device at the branch site whenever latency is above 300 ms over a 5-minute period. Which type of Junos script would you use in this scenario?

- A. Op
- B. SNMP
- C. Commit
- D. Event

Correct Answer: D

Reference: [https://www.juniper.net/documentation/en\\_US/junos/topics/concept/junos-script-automationoverview.html](https://www.juniper.net/documentation/en_US/junos/topics/concept/junos-script-automationoverview.html)

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### QUESTION 2

Which pair of daemons in the Junos OS handle automation?

- A. mgd and jsd
- B. mgd and JET
- C. jsd and gRPC
- D. JET and gRPC

Correct Answer: A

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### QUESTION 3

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



#### QUESTION 4

Click the Exhibit button.

Exhibit:

Ansible playbook:

```
- - -
- name: Get facts
hosts: r0
connection: local
gather_facts: no
roles:
  - Juniper.junos
tasks:
  - name: Execute junos_get_facts console
    Junos_get_facts:
      host: "{{inventory_hostname}}"
      user: "root"
      console: "--telnet=console_server, 555"
      logfile: ""
      savedir: "./facts"
```

The r0 device is currently in a factory-default state. The console connection of r0 is reachable using Telnet on TCP port 555 of the console\_server host.

Referring to the exhibit, which statement is true?

- A. The device does not require configuration changes for the playbook to run successfully
- B. The Telnet service must be configured for the playbook to run successfully
- C. A password for the root user must be configured for the playbook to run successfully
- D. The NETCONF service must be configured for the playbook to run successfully

Correct Answer: D

Reference: [http://docs.ansible.com/ansible/latest/junos\\_facts\\_module.html](http://docs.ansible.com/ansible/latest/junos_facts_module.html)

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#### QUESTION 5

What are two attributes of the jsd JET service process? (Choose two)

- A. It executes one API request per session
- B. It executes APIs from multiple sessions in parallel



- C. It supports only one client session at a time
- D. It creates a separate thread to service JET application requests

Correct Answer: BD

To support application interaction with Junos OS, the JETservice process (jsd), by default, uses TCP port 32767 to listen for and receive requests from applications to execute APIs. Whenever a request comes on the TCP port, jsd creates a separate thread to service the JET application request. The session remains established as long as the client and server are both up and able to communicate with each other. Over the lifetime of a session, jsd can execute many APIs, and it can execute APIs from multiple sessions in parallel. You can have a maximum of 8 active client sessions connected at any given time. Reference: [https://www.juniper.net/documentation/en\\_US/junos/information-products/pathway-pages/config-guide-jetapplications/jet-apps-administration-guide-jet.pdf](https://www.juniper.net/documentation/en_US/junos/information-products/pathway-pages/config-guide-jetapplications/jet-apps-administration-guide-jet.pdf)

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