

EX447^{Q&As}

Red Hat Certified Specialist in Advanced Automation: Ansible Best Practices

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QUESTION 1

CORRECT TEXT

In `/home/sandy/ansible/` create a playbook called `logvol.yml`. In the play create a logical volume called `lv0` and make it of size `1500MiB` on volume group `vg0`. If there is not enough space in the volume group print a message "Not enough space for logical volume" and then make a `800MiB` `lv0` instead. If the volume group still doesn't exist, create a message "Volume group doesn't exist" Create `anxfs` filesystem on all `lv0` logical volumes. Don't mount the logical volume.

A. See the for complete Solution below.

Correct Answer: A

Solution as:

```
- name: hosts
hosts: all
tasks:
- name: create partition
  parted:
    device: /dev/vdb
    number: 1
    flags: [ lvm ]
    state: present
- name: create vg
  lvg:
    vg: vg0
    pvs: /dev/vdb1
  when: ansible_devices.vdb.partitions.vdb1 is defined
- name: create logical volume
  lvol:
    vg: vg0
    lv: lv0
    size: 1500m
  when: ansible_lvm.vgs.vg0 is defined and ( (ansible_lvm.vgs.vg0.size_g | float ) > 1.5)
- name: send message if volume group not large enough
  debug:
    msg: Not enough space for logical volume
  when: ansible_lvm.vgs.vg0 is defined and ( (ansible_lvm.vgs.vg0.size_g | float ) < 1.5)
- name: create a smaller logical volume
  lvol:
    vg: vg0
    lv: lv0
    size: 1500m
  when: ansible_lvm.vgs.vg0 is defined and ( (ansible_lvm.vgs.vg0.size_g | float ) < 1.5)
- name: create fs
  filesystem:
    dev: /dev/vg0/lv0
    fstype: xfs
  when: ansible_lvm.vgs.vg0 is defined
```

QUESTION 2

CORRECT TEXT

Create a role called sample-apache in /home/sandy/ansible/roles that enables and starts httpd, enables and starts the firewall and allows the webserver service. Create a template called index.html.j2 which creates and serves a message from /

var/www/html/index.html Whenever the content of the file changes, restart the webserver service.

Welcome to [FQDN] on [IP]

Replace the FQDN with the fully qualified domain name and IP with the ip address of the node using ansible facts. Lastly, create a playbook in /home/sandy/ansible/ called apache.yml and use the role to serve the index file on webserver hosts.

A. See the for complete Solution below.

Correct Answer: A

/home/sandy/ansible/apache.yml

```
---
- name: http
  hosts: webserver
  roles:
    - sample-apache
```

/home/sandy/ansible/roles/sample-apache/tasks/main.yml

```
---
# tasks file for sample-apache
- name: enable httpd
  service:
    name: httpd
    state: started
    enabled: true
- name: enable firewall
  service:
    name: firewalld
    state: started
    enabled: true
- name: firewall http service
  firewalld:
    service: http
    state: enabled
    permanent: yes
    immediate: yes
- name: index
  template:
    src: templates/index.html.j2
    dest: /var/www/html/index.html
  notify:
    - restart
```

/home/sandy/ansible/roles/sample-apache/templates/index.html.j2

```
Welcome to {{ansible_fqdn}} {{ansible_default_ipv4.address}}
```

In /home/sandy/ansible/roles/sample-apache/handlers/main.yml

```
- name: restart
  service:
    name: httpd
    state: restarted
```

QUESTION 3

CORRECT TEXT

Create a jinja template in /home/sandy/ansible/ and name it hosts.j2. Edit this file so it looks like the one below. The order of the nodes doesn't matter. Then create a playbook in /home/sandy/ansiblecalledhosts.yml and install the template on dev node at /root/myhosts

```
127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4
::1      localhost localhost.localdomain localhost6 localhost6.localdomain6

10.0.2.1      node1.example.com  node1
10.0.2.2      node2.example.com  node2
10.0.2.3      node3.example.com  node3
10.0.2.4      node4.example.com  node4
10.0.2.5      node5.example.com  node5
```

A. See the for complete Solution below.

Correct Answer: A

Solution as:

```
in /home/sandy/ansible/hosts.j2
```

```
{%for host in groups['all']%}
{{hostvars[host]['ansible_default_ipv4']['address']}} {{hostvars[host]['ansible_fqdn']}}
{{hostvars[host]['ansible_hostname']}}
{%endfor%}
```

```
in /home/sandy/ansible/hosts.yml
```

```
---
```

```
- name: use template
  hosts: all
  template:
    src: hosts.j2
    dest: /root/myhosts
  when: "dev" in group_names
```

QUESTION 4

CORRECT TEXT

Using the Simulation Program, perform the following tasks:

Static Inventories Task:

1.
Add a new group to your default ansible host file. call the group [ec2]
 2.
Add a newhost to the new group you created.
 3.
Add a variable to a new host entry in the /etc/ansible/hosts file. Add the following. localhost http_port=80
maxRequestsPerChild=808
 4.
Check to see if maxRequestsPerChild is pulled out with an ad-hoccommand.
 5.
Create a local host file and put a target group and then a host into it. Then ping it with an ad-hoc command.
- A. See the for complete Solution below.

Correct Answer: A

1.

Edit the `/etc/ansible/hosts` file. Add a group.

2.

Edit the `/etc/ansible/hosts` file. Add a user under the group you created.

3.

Edit the `/etc/ansible/hosts` file. Find a host. if we add a variable called `maxRequestsPerChild` to the host it would look like this. `host1 maxRequestsPerChild=808`

4.

```
ansible ec2 -m shell -a "echo {{ maxRequestsPerChild }}"
```

5.

Edit a local file. It could be called anything. Lets call it `myhosts`. Inside the file it would have a host like the following.
`[mygroup] myusername1.mylabserver.com`

QUESTION 5

CORRECT TEXT

Install and configure ansible

Userbob has been created on your control node. Give him the appropriate permissions on the control node. Install the necessary packages to run ansible on the control node.

Create a configuration file `/home/bob/ansible/ansible.cfg` to meet the following requirements:

The roles path should include `/home/bob/ansible/roles`, as well as any other path that maybe required for the course of the sample exam.

The inventory file path is `/home/bob/ansible/inventory`.

Ansible should be able to manage 10 hosts at a single time.

Ansible should connect to all managed nodes using the bob user.

Create an inventory file for the following five nodes:

`node1.example.com`

`node2.example.com`

`node3.example.com`

`node4.example.com`

`node5.example.com`

Configure these nodes to be in an inventory file where node1 is a member of groupdev, node2 is a member of group test, node3 is a member of groupproxy, node4 and node 5 are members of groupprod. Also, prod is a member of group webservers.

A. See the for complete Solution below.

Correct Answer: A

```
In/home/sandy/ansible/ansible.cfg [defaults] inventory=/home/sandy/ansible/inventory
roles_path=/home/sandy/ansible/roles remote_user= sandy host_key_checking=false [privilegeescalation] become=true
become_user=root become_method=sudo become_ask_pass=false
```

```
In /home/sandy/ansible/inventory [dev] node1 .example.com [test] node2.example.com [proxy] node3 .example.com
[prod] node4.example.com node5 .example.com [webservers:children] prod
```

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