# 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 calledlogvol.yml. Inthe play create a logical volume calledlv0and make it of size 1500MiB on volume groupvgOIf there is not enough space in the volume groupprinta message"Not enough space for logical volume"and then make a 800MiBlv0instead. If the volume group still doesn\\'t exist, create a message "Volume group doesn\\'t exist"Create anxfsfilesystem on alllv0logical 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 file called specs.empty in home/bob/ansible on the local machine as follows:

HOST=

MEMORY=

BIOS=

VDA_DISK_SIZE=

VDB_DISK_SIZE=

Create the playbook /home/bob/ansible/specs.yml which copies specs.empty to all remote nodes\\' path /root/specs.txt. Using the specs.yml playbook then edit specs.txt on the remote machines to reflect theappropriate ansible facts.

A. See the for complete Solution below.

Correct Answer: A

Solution as:

```
- name: edit file
  hosts: all
  tasks:
   - name: copy file
     copy: report.txt
     dest: /root/report.txt
   - name: change host
     lineinefile:
        regex: ^HOST
        line: HOST={{ansible_hostname}}
        state: present
        path: /root/report.txt
   - name: change mem
     lineinefile:
        line: MEMORY={{ansible_memtotal_mb}}
        regex: ^MEMORY
        state: present
        path: /root/report.txt
```

```
  - name: change bios
    lineinefile:
      line: BIOS={{ansible_bios_version}}
      regex: ^BIOS
      state: present
      path: /root/report.txt
  - name: change vda
    lineinefile:
      line: VDA_DISK_SIZE ={%if ansible_devices.vda is defined%}{{ansible_devices.
vda.size}}{%else%}NONE{%endif%}
      regex: ^VDA_DISK_SIZE
      state: present
      path: /root/report.txt
  - name: change vdb
    lineinefile:
      line: VDB_DISK_SIZE ={%if ansible_devices.vdb is defined%}{{ansible_devices.
vdb.size}}{%else%}NONE{%endif%}
      regex: ^VDB_DISK_SIZE
      state: present
      path: /root/report.txt
```

**QUESTION 3**

CORRECT TEXT

Create a file called mysecret.yml on the control host using ansible vault in home/bob/ansible. Set the password to \\'notasafepass\\' and inside the file create avariable called dev_pass with the value of devops. Save the file. Then go back in the file and change dev_pass value to devops123. Then change the vault password of mysecret.yml to verysafepass

A. See the for complete Solution below.

Correct Answer: A

ansible-vault create lock.yml New Vault Password: reallysafepw Confirm: reallysafepw

```
In file:
pw_dev: dev
pw_mgr: mgr
```

**QUESTION 4**

CORRECT TEXT

Create a playbook /home/bob/ansible/timesync.yml that runs on hosts in the webservers host group and does the following:

Uses thetimesync RHEL system role. Sets the ntp server to 0.uk.pool.ntp.org Sets the timezone to UTC

A. See the for complete Solution below.

Correct Answer: A

Solution as:

```
- name: use rhel system role
  hosts: all
  roles:
   - rhel-system-roles.timesync
  timesync_ntp_servers:
    - hostname: 0.uk.pool.ntp.org
      iburst: yes
```

## QUESTION 5

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.ymland 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
```