



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 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/ansible/calledhosts.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 3

CORRECT TEXT Create an ansible vault password file calledlock.ymlwith the passwordreallysafepwin the /home/sandy/ansibledirectory. In the lock.yml file define two variables. One ispw_devand the password is '\\dev\\' and the other ispw_mgrand the password is '\\mgr\\' Create a regular file calledsecret.txtwhich contains the password for lock.yml.

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 file in/home/sandy/ansible/calledreport.yml.Using this playbook, get a filecalled report.txt(make it look exactly as below). Copy this file over to all remote hosts at /root/report.txt.Then edit the lines in the file to provide the real informationofthehosts. Ifa disk does not exist then write NONE.

report.txt

```
HOST=inventory hostname  
MEMORY=total memory in mb  
BIOS=bios version  
VDA_DISK_SIZE=disk size  
VDB_DISK_SIZE=disk size
```

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  
  lineinfile:  
    regex: ^HOST  
    line: HOST={{ansible_hostname}}  
    state: present  
    path: /root/report.txt  
- name: change mem  
  lineinfile:  
    line: MEMORY={{ansible_memtotal_mb}}  
    regex: ^MEMORY  
    state: present  
    path: /root/report.txt
```



```
- name: change bios
  lineinfile:
    line: BIOS={{ansible_bios_version}}
    regex: ^BIOS
    state: present
    path: /root/report.txt
- name: change vda
  lineinfile:
    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
  lineinfile:
    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 5

CORRECT TEXT

Create a file called requirements.yml in /home/sandy/ansible/roles. A file called role.yml in /home/sandy/ansible/. The http-proxy role should be used on the proxy host. And when you curl http://node3.example.com it should display "Welcome to node4.example.com" and when you curl again "Welcome to node5.example.com" The php-proxy role should be used on the prod host.

A. See the for complete Solution below.

Correct Answer: A

Solution as:



```
- name: install haproxy and php roles
hosts: all
vars:
  haproxy_backend_servers:
    - name: web1
      address: node4.example.com
    - name: web2
      address: node5.example.com
tasks:
  - name: import haproxy
    include_role: haproxy-role
    when: "proxy" in group_names
  - name: import php
    include_role: php-role
    when: "prod" in group_names
```

Check the proxy host by curlhttp://node3.example.com

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