

## Exam Questions EX294

Red Hat Certified Engineer (RHCE) exam

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### NEW QUESTION 1

- (Exam Topic 2)

Create an Ansible vault to store user passwords as follows:

\* The name of the vault is valut.yml

\* The vault contains two variables as follows:

- dev\_pass with value wakennym

- mgr\_pass with value rocky

\* The password to encrypt and decrypt the vault is atenorth

\* The password is stored in the file /home/admin/ansible/password.txt

A. Mastered

B. Not Mastered

**Answer:** A

#### Explanation:

Solution as:

```
# pwd
```

```
/home/admin/ansible
```

```
# echo "atenorth" >password.txt
```

```
# chmod 0600 password.txt
```

```
# ansible-vault create vault.yml --vault-password-file=password.txt
```

```
--
```

```
- dev_pass: wakennym
```

```
- mgr_pass: rocky wq
```

```
# cat vault.yml
```

```
$ANSIBLE_VAULT;1.1;AES256 36383862376164316436353665343765643331393433373564613762666531313034336438353662
```

```
3464346331346461306337633632393563643531376139610a343531326130663266613533633562
```

```
38623439316631306463623761343939373263333134353264333834353264343934373765643737
```

```
3535303630626666370a643663366634383863393338616661666632353139306436316430616334
```

```
65386134393363643133363738656130636532346431376265613066326162643437643064313863
```

```
6633333537303334333437646163343666666132316639376531
```

```
# ansible-vault view vault.yml password:*****
```

```
--
```

```
- dev_pass: wakennym
```

```
- mgr_pass: rocky
```

### NEW QUESTION 2

- (Exam Topic 2)

Install and configure Ansible on the control-node control.realmX.example.com as follows:

```
-----  
--> Install the required packages
```

```
--> Create a static inventory file called /home/admin/ansible/inventory as follows: node1.realmX.example.com is a member of the dev host group
```

```
node2.realmX.example.com is a member of the test host group node3.realmX.example.com & node4.realmX.example.com are members of the prod host group
```

```
node5.realmX.example.com is a member of the balancers host group. prod group is a member of the webserver's host group
```

```
--> Create a configuration file called ansible.cfg as follows:
```

```
--> The host inventory file /home/admin/ansible/inventory is defined
```

```
--> The location of roles used in playbooks is defined as /home/admin/ansible/ roles
```

A. Mastered

B. Not Mastered

**Answer:** A

#### Explanation:

Solution as:

Through physical host, login to workstation.lab.example.com with user root.

```
# ssh root@workstation.lab.example.com
```

```
# hostname workstation.lab.example.com
```

```
# yum install platform-python*
```

```
# su - admin
```

```
# pwd
```

```
/home/admin/
```

```
# vim .vimrc
```

```
# mkdir -p ansible/roles
```

```
# cd ansible
```

```
# vim inventory [dev]
```

```
servera.lab.example.com [test] serverb.example.com [prod] serverc.example.com serverd.example.com [balancer] serverd.lab.example.com [webserver:children]
```

```
prod
```

```
!wq
```

```
# vim ansible.cfg [defaults]
```

```
inventory = ./inventory
```

```
role_path = ./roles remote_user = admin ask_pass = false [privilege_escalation] become = true become_method = sudo become_user = root become_ask_pass =
```

```
false
```

```
!wq
```

```
# ansible all --list-hosts
```

### NEW QUESTION 3

- (Exam Topic 1)

Create a Shell script /root/program:

The shell script will come back to "user" parameter when you are entering "kernel" parameter.

The shell script will come back to "kernel" when you are entering "user" parameter.

It will output the standard error when this script "usage:/root/program kernel|user" don't input any parameter or the parameter you inputted is entered as the requirements.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
[root@server1 virtual]# cat /root/program
#!/bin/bash
param1="$1"
if [ "$param1" == "kernel" ]; then
echo "user"
elif [ "$param1" == "user" ]; then
echo "kernel"
else
echo "usage:/root/program kernel|user"
if
[root@server1 ~]# chmod +x /root/program
```

#### NEW QUESTION 4

- (Exam Topic 1)

Install and configure ansible

User sandy has been created on your control node with the appropriate permissions already, do not change or modify ssh keys. Install the necessary packages to run ansible on the control node. Configure ansible.cfg to be in folder /home/sandy/ansible/ansible.cfg and configure to access remote machines via the sandy user.

All roles should be in the path /home/sandy/ansible/roles. The inventory path should be in

/home/sandy/ansible/inventory.

Configure these nodes to be in an inventory file where node1 is a member of group dev. node2 is a member of group test, node3 is a member of group proxy, node4 and node5 are members of group prod. Also, prod is a member of group webserver.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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]

[proxy]

node3 .example.com [prod] node4.example.com node5 .example.com [webserver:children] prod

#### NEW QUESTION 5

- (Exam Topic 1)

Create a playbook called issue.yml in /home/sandy/ansible which changes the file /etc/issue on all managed nodes: If host is a member of (dev then write

"Development" If host is a member of test then write "Test" If host is a member of prod then write "Production"

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution as:

```
---
- name: issue file
  hosts: dev,test,prod
  tasks:
    - name: edit development node
      copy:
        content: Development
        dest: /etc/issue
        when: "dev" in group_names
    - name: edit test node
      copy:
        content: Test
        dest: /etc/issue
        when: "test" in group_names
    - name: edit development node
      copy:
        content: Production
        dest: /etc/issue
        when: "prod" in group_names
...
```

#### NEW QUESTION 6

- (Exam Topic 1)

Create a file called `adhoc.sh` in `/home/sandy/ansible` which will use `adhoc` commands to set up a new repository. The name of the repo will be 'EPEL' the description 'RHEL8' the baseurl is '<https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm>' there is no `gpgcheck`, but you should enable the repo.  
\* You should be able to use an `bash` script using `adhoc` commands to enable repos. Depending on your lab setup, you may need to make this repo "`state=absent`" after you pass this task.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
chmod 0777 adhoc.sh
vim adhoc.sh
#!/bin/bash
ansible all -m yum_repository -a 'name=EPEL description=RHEL8 baseurl=https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm
gpgcheck=no enabled=yes'
```

#### NEW QUESTION 7

- (Exam Topic 1)

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 an `xfs` filesystem on all `lv0` logical volumes. Don't mount the logical volume.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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
```

#### NEW QUESTION 10

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