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**Red Hat Certified Engineer (RHCE) exam for  
Red Hat Enterprise Linux 8**

**RedHat EX294**

**Version Demo**

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## Topic Break Down

Topic	No. of Questions
Topic 1, LAB SETUP	19
Topic 2, LAB SETUP – 2	16
<b>Total</b>	<b>35</b>

## QUESTION NO: 1 - (SIMULATION)

Modify file content.

-----

Create a playbook called `/home/admin/ansible/modify.yml` as follows:

\* The playbook runs on all inventory hosts

\* The playbook replaces the contents of `/etc/issue` with a single line of text as

follows:

--> On hosts in the dev host group, the line reads: "Development"

--> On hosts in the test host group, the line reads: "Test"

--> On hosts in the prod host group, the line reads: "Production"

**ANSWER: See the Explanation for complete Solution below.**

### Explanation:

Solution as:

```
# pwd
```

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

```
# vim modify.yml
```

```
---
```

```
- name:
```

```
hosts: all
```

```
tasks:
```

```
- name:
```

```
copy:
```

```
content: "Development"
```

```
dest: /etc/issue
```

```
when: inventory_hostname in groups['dev']
```

```
- name:
```

```
copy:
```

```
content: "Test"
dest: /etc/issue
when: inventory_hostname in groups['test']
- name:
copy:
content: "Production"
dest: /etc/issue
when: inventory_hostname in groups['prod']
:wq
# ansible-playbook modify.yml --syntax-check
# ansible-playbook modify.yml
```

## QUESTION NO: 2 - (SIMULATION)

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.

You will have access to 5 nodes.

[node1.example.com](http://node1.example.com)

[node2.example.com](http://node2.example.com)

node3.example.com

node4.[example.com](http://example.com)

[node5.example.com](http://node5.example.com)

Configure these nodes to be in an inventory file where node 1 is a member of group dev. node2 is a member of group test, node3 is a member of group proxy, node4 and node 5 are members of group prod. Also, prod is a member of group webservers.

**ANSWER: See the explanation for complete solution below.**

**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]

node 1 [.example.com](http://.example.com)

[test]

[node2.example.com](http://node2.example.com)

[proxy]

node3 [.example.com](http://.example.com)

[prod]

[node4.example.com](http://node4.example.com)

node5 [.example.com](http://.example.com)

[webservers:children]

prod

## QUESTION NO: 3 - (SIMULATION)

Create a playbook /home/bob /ansible/motd.yml that runs on all inventory hosts and docs the following: The playbook should replae any existing content of/etc/motd in the following text. Use ansible facts to display the FQDN of each host

On hosts in the dev host group the line should be "Welcome to Dev Server FQDN".

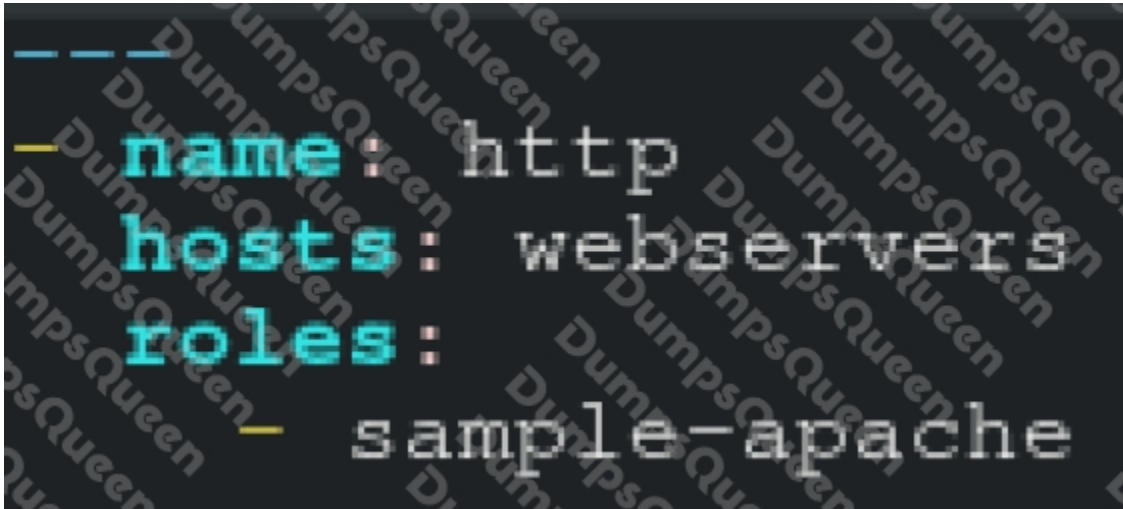
On hosts in the webserver host group the line should be "Welcome to Apache Server FQDN".

On hosts in the database host group the line should be "Welcome to MySQL Server FQDN".

**ANSWER: SeetheExplanationforcompleteSolutionbelow.**

**Explanation:**

/home/sandy/ansible/apache.yml



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

## QUESTION NO: 4 - (SIMULATION)

Install the RHEL system roles package and create a playbook called timesync.yml that:

--> Runs over all managed hosts.

--> Uses the timesync role.

--> Configures the role to use the time server 192.168.10.254 ( Hear in redhat lab

use "classroom.example.com" )

--> Configures the role to set the iburst parameter as enabled.

**ANSWER: SeetheExplanationforcompleteSolutionbelow.**

### Explanation:

Solution as:

```
# pwd
```

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

```
# sudo yum install rhel-system-roles.noarch -y
```

```
# cd roles/
```

```
# ansible-galaxy list
```

```
# cp -r /usr/share/ansible/roles/rhelsystem-roles.timesync .
```

```
# vim timesync.yml
```

```
---
```

```
- name: timesynchronization
hosts: all
vars:
timesync_ntp_provider: chrony
timesync_ntp_servers:
- hostname: classroom.example.com _ in exam its ip-address
iburst: yes
timezone: Asia/Kolkata
roles:
- rhel-system-roles.timesync
tasks:
- name: set timezone
timezone:
name: "{{ timezone }}"
:wq!
timedatectl list-timezones | grep india
# ansible-playbook timesync.yml --syntax-check
# ansible-playbook timesync.yml
# ansible all -m shell -a 'chronyc sources -v'
# ansible all -m shell -a 'timedatectl'
# ansible all -m shell -a 'systemctl is-enabled chronyd'
```

## QUESTION NO: 5 - (SIMULATION)

Create Logical volumes with lvm.yml in all nodes according to following requirements.

- 
- \* Create a new Logical volume named as 'data'
  - \* LV should be the member of 'research' Volume Group
  - \* LV size should be 1500M
  - \* It should be formatted with ext4 file-system.

--> If Volume Group does not exist then it should print the message "VG Not found"

--> If the VG can not accommodate 1500M size then it should print "LV Can not be created with

following size", then the LV should be created with 800M of size.

--> Do not perform any mounting for this LV.

**ANSWER: SeetheExplanationforcompleteSolutionbelow.**

## Explanation:

Solution as:

```
# pwd
```

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

```
# vim lvm.yml
```

```
---
```

```
- name:
```

```
hosts: all
```

```
ignore_errors: yes
```

```
tasks:
```

```
- name:
```

```
lvol:
```

```
lv: data
```

```
vg: research
```

```
size: "1500"
```

```
- debug:
```

```
msg: "VG Not found"
```

```
when: ansible_lvm.vgs.research is not defined
```

```
- debug:
```

```
msg: "LV Can not be created with following size"
```

```
when: ansible_lvm.vgs.research.size_g < "1.5"
```

```
- name:
```

```
lvol:
```

```
lv: data
```



vg: research

size: "800"

when: ansible\_lvm.vgs.research.size\_g < "1.5"

- name:

filesystem:

fstype: ext4

dev: /dev/research/data

:wq!

# ansible-playbook lvm.yml --syntax-check

# ansible-playbook lvm.yml