



# Red-Hat

## Exam Questions EX294

Red Hat Certified Engineer (RHCE) exam

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## NEW QUESTION 1

- (Exam Topic 2)

Create a role called apache in "/home/admin/ansible/roles" with the following requirements:

--> The httpd package is installed, enabled on boot, and started.

--> The firewall is enabled and running with a rule to allow access to the web server.

--> template file index.html.j2 is used to create the file /var/www/html/index.html with the output:

Welcome to HOSTNAME on IPADDRESS

--> Where HOSTNAME is the fqdn of the managed node and IPADDRESS is the IP-Address of the managed node.

note: you have to create index.html.j2 file.

--> Create a playbook called httpd.yml that uses this role and the playbook runs on hosts in the webserver host group.

A. Mastered

B. Not Mastered

**Answer: A**

### Explanation:

Solution as:

-----

# pwd

/home/admin/ansible/roles/

# ansible-galaxy init apache

# vim apache/vars/main.yml

--

# vars file for apache http\_pkg: httpd firewall\_pkg: firewalld http\_srv: httpd firewall\_srv: firewalld rule: http  
webpage: /var/www/html/index.html template: index.html.j2

wq!

# vim apache/tasks/package.yml

--

- name: Installing packages yum:

name:

- "{{http\_pkg}}"

- "{{firewall\_pkg}}" state: latest

wq!

# vim apache/tasks/service.yml

--

- name: start and enable http service service:

name: "{{http\_srv}}"

enabled: true state: started

- name: start and enable firewall service service:

name: "{{firewall\_srv}}" enabled: true

state: started wq!

# vim apache/tasks/firewall.yml

--

- name: Adding http service to firewall firewalld:

service: "{{rule}}" state: enabled permanent: true immediate: true wq!

# vim apache/tasks/webpage.yml

--

- name: creating template file template:

src: "{{template}}"

dest: "{{webpage}}" notify: restart\_httpd

!wq

# vim apache/tasks/main.yml

# tasks file for apache

- import\_tasks: package.yml

- import\_tasks: service.yml

- import\_tasks: firewall.yml

- import\_tasks: webpage.yml wq!

# vim apache/templates/index.html.j2

Welcome to {{ ansible\_facts.fqdn }} on {{ ansible\_facts.default\_ipv4.address }}

# vim apache/handlers/main.yml

--

# handlers file for apache

- name: restart\_httpd service:

name: httpd state: restarted wq!

# cd ..

# pwd

/home/admin/ansible/

# vim httpd.yml

--

- name: Including apache role hosts: webserver

pre\_tasks:

- name: pretask message

debug:

msg: 'Ensure webserver configuration' roles:

- ./roles/apache post\_tasks:

- name: Check webserver uri:

url: "http://{{ ansible\_facts.default\_ipv4.address }}"

return\_content: yes status\_code: 200 wq!

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

# ansible-playbook httpd.yml

```
#
curl http://serverx
```

## NEW QUESTION 2

- (Exam Topic 2)

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.
```

- A. Mastered
- B. Not Mastered

**Answer:** A

### 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
```

## NEW QUESTION 3

- (Exam Topic 2)

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"
```

- A. Mastered
- B. Not Mastered

**Answer:** A

### 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
```

#### NEW QUESTION 4

- (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 5

- (Exam Topic 2)

Generate a hosts file:

\*  
Download an initial template file hosts.j2 from <http://classroom.example.com/> hosts.j2 to  
/home/admin/ansible/ Complete the template so that it can be used to generate a file with a  
line for each inventory host in the same format as /etc/hosts: 172.25.250.9 workstation.lab.example.com workstation  
\* Create a playbook called gen\_hosts.yml that uses this template to generate the file  
/etc/myhosts on hosts in the dev host group.  
\* When completed, the file /etc/myhosts on hosts in the dev host group should have a line for  
each managed host:  
\* 127.0.0.1 localhost localhost.localhost localhost4 localhost4.localhost4  
::1 localhost localhost.localhost localhost6 localhost6.localhost6  
\* 172.25.250.10 servera.lab.example.com servera  
\* 172.25.250.11 serverb.lab.example.com serverb  
\* 172.25.250.12 serverc.lab.example.com serverc  
\* 172.25.250.13 serverd.lab.example.com serverd

-----  
while practising you to create these file hear. But in exam have to download as per question.  
hosts.j2 file consists.  
localhost localhost.localhost localhost4 localhost4.localhost4  
::1  
localhost localhost.localhost localhost6 localhost6.localhost6  
-----

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Solution as:

```
# pwd
/home/admin/ansible
#
wget http://classroom.example.com/hosts.j2
# vim hosts.j2
* 127.0.0.1 localhost localhost.localhost localhost4 localhost4.localhost4 ::1 localhost localhost.localhost localhost6 localhost6.localhost6
{% for host in groups['all'] %}
{{ hostvars[host]['ansible_facts']['default_ipv4']['address'] }} {{ hostvars[host] ['ansible_facts']['fqdn'] }} {{ hostvars[host]['ansible_facts']['hostname'] }}
{% endfor %} wq!
# vim gen_hosts.yml
```

```
--
- name: collecting all host information hosts: all
tasks:
- name: template: src: hosts.j2
dest: /etc/myhosts
when: inventory_hostname in groups['dev'] wq
# ansible-playbook gen_hosts.yml --syntax-check
# ansible-playbook gen_hosts.yml
```

#### NEW QUESTION 6

- (Exam Topic 2)

Use Ansible Galaxy with a requirements file called /home/admin/ansible/roles/ install.yml to download and install roles to /home/admin/ansible/roles from the following URLs:

<http://classroom.example.com/role1.tar.gz> The name of this role should be balancer

<http://classroom.example.com/role2.tar.gz> The name of this role should be phphello

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Solution as:

```
# pwd
/home/admin/ansible/roles
# vim install.yml
--
src: http://classroom.example.com/role1.tar.gz name: balancer
src: http://classroom.example.com/role2.tar.gz name: phphello
wq!
# pwd
/home/admin/ansible
# ansible-galaxy install -r roles/install.yml -p roles
```

#### NEW QUESTION 7

- (Exam Topic 2)

Create and run an Ansible ad-hoc command.

--> As a system administrator, you will need to install software on the managed nodes.

--> Create a shell script called yum-pack.sh that runs an Ansible ad-hoc command to create yum-repository on each of the managed nodes as follows:

--> repository1

-----

- \* 1. The name of the repository is EX407
- \* 2. The description is "Ex407 Description"
- \* 3. The base URL is [http://content.example.com/rhel8.0/x86\\_64/dvd/BaseOS/](http://content.example.com/rhel8.0/x86_64/dvd/BaseOS/)
- \* 4. GPG signature checking is enabled
- \* 5. The GPG key URL is [http://content.example.com/rhel8.0/x86\\_64/dvd/RPM-GPG-KEYredhat-](http://content.example.com/rhel8.0/x86_64/dvd/RPM-GPG-KEYredhat-) release
- \* 6. The repository is enabled

--> repository2

-----

- \* 1. The name of the repository is EXX407
- \* 2. The description is "Exx407 Description"
- \* 3. The base URL is [http://content.example.com/rhel8.0/x86\\_64/dvd/AppStream/](http://content.example.com/rhel8.0/x86_64/dvd/AppStream/)
- \* 4. GPG signature checking is enabled
- \* 5. The GPG key URL is [http://content.example.com/rhel8.0/x86\\_64/dvd/RPM-GPG-KEYredhat-](http://content.example.com/rhel8.0/x86_64/dvd/RPM-GPG-KEYredhat-) release
- \* 6. The repository is enabled

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Solution as:

```
# pwd
/home/admin/ansible
# vim yum-pack.sh
#!/bin/bash
ansible all -m yum_repository -a 'name=EX407 description="Ex407 Description"
baseurl=http://content.example.com/rhel8.0/x86_64/dvd/BaseOS/
gpgcheck=yes
gpgkey=http://content.example.com/rhel8.0/x86_64/dvd/RPM-GPG-KEY-redhat-release
enabled=yes'
ansible all -m yum_repository -a 'name=EXX407 description="Exx407 Description"
baseurl=http://content.example.com/rhel8.0/x86_64/dvd/AppStream/
gpgcheck=yes
gpgkey=http://content.example.com/rhel8.0/x86_64/dvd/RPM-GPG-KEY-redhat-release
enabled=yes'
!wq
# chmod +x yum-pack.sh
# bash yum-pack.sh
# ansible all -m command -a 'yum repolist all'
```

#### NEW QUESTION 8

- (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 9

- (Exam Topic 1)

Install and configure ansible

User bob 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 may be 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 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.

- 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]
node 1.example.com
[test]
node2.example.com
[proxy]
node3 .example.com
[prod]
node4.example.com
node5 .example.com
[webserver:children]
prod
```

#### NEW QUESTION 10

- (Exam Topic 1)

Create an empty encrypted file called myvault.yml in /home/sandy/ansible and set the password to



notsafepw. Rekey the password to iwej2221. See the

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

ansible-vault create myvault.yml

Create new password: notsafepw Confirm password: notsafepw ansible-vault rekey myvault.yml

Current password: notsafepw New password: iwej2221 Confirm password: iwej2221

**NEW QUESTION 10**

- (Exam Topic 1)

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 the appropriate ansible facts.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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
```

**NEW QUESTION 13**



- (Exam Topic 1)

Create the users in the file usersjst.yml file provided. Do this in a playbook called users.yml located at /home/sandy/ansible. The passwords for these users should be set using the lock.yml file from TASK7. When running the playbook, the lock.yml file should be unlocked with secret.txt file from TASK 7.

All users with the job of 'developer' should be created on the dev hosts, add them to the group devops, their password should be set using the pw\_dev variable. Likewise create users with the job of 'manager' on the proxy host and add the users to the group 'managers', their password should be set using the pw\_mgr variable.

users\_list.yml

```
users:
  - username: bill
    job: developer
  - username: chris
    job: manager
  - username: dave
    job: test
  - username: ethan
    job: developer
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

ansible-playbook users.yml --vault-password-file=secret.txt

```
- name: create users
  hosts: all
  vars_files:
    - users_list.yml
    - lock.yml
  tasks:
    - name: create devops group nodes1
      group:
        name: devops
      when: ('dev' in group_names)
    - name: create manager group nodes45
      group:
        name: manager
      when: ('prod' in group_names)
    - name: create devs should happen on node1
      user:
        name: "{{item.username}}"
        groups: devops
        password: "{{ pw_dev | password_hash('sha512') }}"
      when: ('dev' in group_names) and ('developer' in item.job)
      loop: "{{users}}"
    - name: create managers on node45
      user:
        name: "{{item.username}}"
        groups: manager
        password: "{{ pw_mgr | password_hash('sha512') }}"
      when: ('prod' in group_names) and ('manager' in item.job)
      loop: "{{users}}"
```

#### NEW QUESTION 17

- (Exam Topic 1)

Create a playbook called timesvnc.yml in /home/sandy/ansible using rhel system role timesync. Set the time to use currently configured ntp with the server 0.uk.pool.ntp.org. Enable burst. Do this on all hosts.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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
```

**NEW QUESTION 18**

- (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 22**

- (Exam Topic 1)

Create a file called `requirements.yml` in `/home/sandy/ansible/roles` a file called `role.yml` in `/home/sandy/ansible/`. The `haproxy-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-role` should be used on the prod host.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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 `curl http://node3.example.com`

**NEW QUESTION 23**

- (Exam Topic 1)

Create a playbook `/home/bob/ansible/motd.yml` that runs on all inventory hosts and does the following: The playbook should replace 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".

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

/home/sandy/ansible/apache.yml

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

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

**NEW QUESTION 28**

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