



## 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 webservers 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: webservers
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 a playbook called packages.yml that:

```
-----  
--> Installs the php and mariadb packages on hosts in the dev, test, and prod host groups.  
--> Installs the Development Tools package group on hosts in the dev host group.  
--> Updates all packages to the latest version on hosts in the dev host group.
```

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Solution as:

```
# pwd /home/admin/ansible/  
# vim packages.yml  
--  
- name: Install the packages hosts: dev,test,prod  
vars:  
- php_pkg: php  
- mariadb_pkg: mariadb tasks:  
- name: install the packages yum:  
name:  
- "{{ php_pkg }}"  
- "{{ mariadb_pkg }}"  
state: latest  
- name: install the devops tool packages hosts: dev  
tasks:  
- name: install development tools yum:  
name: "@Development Tools" state: latest  
- name: upgrade all the packages yum:  
name: "*" state: latest  
exclude: kernel*  
!wq  
# ansible-playbook package.yml --syntax-check  
# ansible-playbook package.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)

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.localdomain localhost4 localhost4.localdomain4
- :::1 localhost localhost.localdomain localhost6 localhost6.localdomain6
- \* 172.25.250.10 serevra.lab.example.com servera
- \* 172.25.250.11 serevrb.lab.example.com serverb
- \* 172.25.250.12 serevrc.lab.example.com serverc
- \* 172.25.250.13 serevrd.lab.example.com serverd

-----  
 while practising you to create these file hear. But in exam have to download as per questation.  
 hosts.j2 file consists.  
 localhost localhost.localdomain localhost4 localhost4.localdomain4  
 :::1  
 localhost localhost.localdomain localhost6 localhost6.localdomain6  
 -----

- 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.localdomain localhost4 localhost4.localdomain4 :::1 localhost localhost.localdomain localhost6 localhost6.localdomain6
{% 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 5**

- (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 6**

- (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 7

- (Exam Topic 1)

Create a playbook that changes the default target on all nodes to multi-user target. Do this in playbook file called target.yml in /home/sandy/ansible

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- name: change default target hosts: all

tasks:

- name: change target file:

src: /usr/lib/systemd/system/multi-user.target dest: /etc/systemd/system/default.target state: link

#### NEW QUESTION 8

- (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 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]
```

```
node1 .example.com [test]
```

```
[proxy]
```

```
node3 .example.com [prod] node4.example.com node5 .example.com [webservers:children] prod
```

#### NEW QUESTION 9

- (Exam Topic 1)

Create a file called packages.yml in /home/sandy/ansible to install some packages for the following hosts. On dev, prod and webservers install packages httpd, mod\_ssl, and mariadb. On dev only install the development tools package. Also, on dev host update all the packages to the latest.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution as:

```

---
- name: install pack
  hosts: dev,test,webservers
  become: true
  tasks:
    - name: install on all hosts in this play
      yum:
        name:
          - httpd
          - mod_ssl
          - mariadb
        state: latest
    - name: install on dev only
      yum:
        name:
          - '@Development tools'
        state: latest
        when: "dev" in group_names

```

\*\* NOTE 1 a more acceptable answer is likely 'present' since it's not asking to install the latest

state: present

\*\* NOTE 2 need to update the development node

- name: update all packages on development node yum:

\*name:

state: latest

#### NEW QUESTION 10

- (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 (lev 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 10

- (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 12

- (Exam Topic 1)

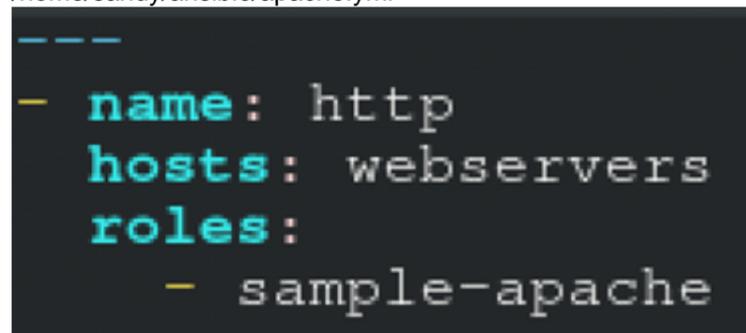
Create a playbook `/home/bob/ansible/motd.yml` that runs on all inventory hosts and docs the following: The playbook should replace any existing content of `/etc/motd` in the following text. Use `ansible` facts to display the FQDN of each host  
On hosts in the `dev` host group the line should be "Welcome 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: webserver
  roles:
    - sample-apache
```

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

### NEW QUESTION 15

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