

## Exam Questions EX294

Red Hat Certified Engineer (RHCE) exam

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## NEW QUESTION 1

- (Exam Topic 2)

Create user accounts

-----  
--> A list of users to be created can be found in the file called user\_list.yml which you should download from [http://classroom.example.com/user\\_list.yml](http://classroom.example.com/user_list.yml) and save to /home/admin/ansible/  
--> Using the password vault created elsewhere in this exam, create a playbook called create\_user.yml that creates user accounts as follows:  
--> Users with a job description of developer should be:  
--> created on managed nodes in the "dev" and "test" host groups assigned the password from the "dev\_pass" variable and these user should be member of supplementary group "devops".  
--> Users with a job description of manager should be:  
--> created on managed nodes in the "prod" host group assigned the password from the "mgr\_pass" variable and these user should be member of supplementary group "opsmgr"  
--> Passwords should use the "SHA512" hash format. Your playbook should work using the vault password file created elsewhere in this exam. while practising you to create these file hear. But in exam have to download as per questation.  
user\_list.yml file consist:  
--  
user:  
- name: user1 job: developer  
- name: user2 job: manager

- A. Mastered
- B. Not Mastered

**Answer:** A

### Explanation:

Solution as:

```
# pwd
/home/admin/ansible
#
wget http://classroom.example.com/user_list.yml
# cat user_list.yml
# vim create_user.yml
--
- name: hosts: all vars_files:
- ./user_list.yml
- ./vault.yml tasks:
- name: creating groups group:
name: "{{ item }}" state: present
loop:
- devops
- opsmgr
- name: creating user user:
name: "{{ item.name }}" state: present
groups: devops
password: "{{ dev_pass|password_hash('sha512') }}" loop: "{{ user }}"
when: (inventory_hostname in groups['dev'] or inventory_hostname in groups['test']) and item.job == "developer"
- name: creating user user:
name: "{{ item.name }}" state: present
groups: opsmgr
password: "{{ mgr_pass|password_hash('sha512') }}" loop: "{{ user }}"
when: inventory_hostname in groups['prod'] and item.job == "manager" wq!
# ansible-playbook create_user.yml --vault-password-file=password.txt --syntax-check
# ansible-playbook create_user.yml --vault-password-file=password.txt
```

## NEW QUESTION 2

- (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 serevrba.lab.example.com serverb  
\* 172.25.250.12 serevrc.lab.example.com serverc  
\* 172.25.250.13 serevrda.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 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 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 web servers.

- 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 5

- (Exam Topic 1)

Create a role called sample-apache in /home/sandy/ansible/roles that enables and starts httpd, enables and starts the firewall and allows the webserver service. Create a template called index.html.j2 which creates and serves a message from /var/www/html/index.html Whenever the content of the file changes, restart the webserver service.

Welcome to [FQDN] on [IP]

Replace the FQDN with the fully qualified domain name and IP with the ip address of the node using ansible facts. Lastly, create a playbook in /home/sandy/ansible/ called apache.yml and use the role to serve the index file on webserver hosts.

- 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

```
---
# tasks file for sample-apache
- name: enable httpd
  service:
    name: httpd
    state: started
    enabled: true
- name: enable firewall
  service:
    name: firewalld
    state: started
    enabled: true
- name: firewall http service
  firewalld:
    service: http
    state: enabled
    permanent: yes
    immediate: yes
- name: index
  template:
    src: templates/index.html.j2
    dest: /var/www/html/index.html
  notify:
    - restart
```

/home/sandy/ansible/roles/sample-apache/templates/index.html.j2

```
Welcome to ({ansible_fqdn}) ({ansible_default_ipv4.address})
```

In /home/sandy/ansible/roles/sample-apache/handlers/main.yml

```
- name: restart
  service:
    name: httpd
    state: restarted
```

#### NEW QUESTION 6

- (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 7

- (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 8

- (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 9

- (Exam Topic 1)

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 called hosts.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. Mastered
- B. Not Mastered

Answer: A

Explanation:

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
```

#### NEW QUESTION 10

- (Exam Topic 1)

Create an ansible vault password file called lock.yml with the password reallysafepw in the

/home/sandy/ansible directory. In the lock.yml file define two variables. One is pw\_dev and the password is 'dev' and the other is pw\_mgr and the password is 'mgr'

Create a regular file called secret.txt which contains the password for lock.yml.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

ansible-vault create lock.yml

New Vault Password: reallysafepw Confirm: reallysafepw

In File:

```
pw_dev: dev
```

```
pw_mgr: mgr
```

#### NEW QUESTION 10

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