

# Red-Hat

## Exam Questions EX294

Red Hat Certified Engineer (RHCE) exam



**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](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)

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 3

- (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 4

- (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 devepment 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 5**

- (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 6**

- (Exam Topic 1)

Create a playbook called regulartasks.yml which has the system that append the date to /root/datefile every day at noon. Name is job 'datejob'

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution as:



```
- name: Creates a cron file under /etc/cron.d
cron:
  name: datejob
  hour: "12"
  user: root
  job: "date >> /root/ datefile"
```

**NEW QUESTION 7**

- (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: webservers
  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 8**

- (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 9**

- (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 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 10**

- (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 15**

- (Exam Topic 1)

Create a playbook called webdev.yml in 'home/sandy/ansible'. The playbook will create a directory Avcbdev on dev host. The permission of the directory are 2755 and owner is webdev. Create a symbolic link from /Webdev to /var/www/html/webdev. Serve a file from Avebdev7index.html which displays the text "Development" Curl <http://node1.example.com/webdev/index.html> to test

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution as:

```
- name: webdev
hosts: dev
tasks:
  - name: create webdev user
    user:
      name: webdev
      state: present
  - name: create a directory
    file:
      mode: '2755'
      path: /webdev
      state: directory
  - name: create symbolic link
    file:
      src: /webdev
      path: /var/www/html/webdev
      state: link
  - name: create index.html
    copy:
      content: Development
      dest: /webdev/ index.html
  - name: Install selinux policies
    yum:
      name: python3-policycoreutils
      state: present
  - name: allow httpd from this directory
    sefcontext:
      target: '/webdev(/.*)?'
      setype: httpd_sys_content_t
      state: present
  - name: restore the context
    shell: restorecon -vR /webdev
```

#### NEW QUESTION 16

- (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 18

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