

## Exam Questions EX294

Red Hat Certified Engineer (RHCE) exam

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### NEW QUESTION 1

- (Exam Topic 2)

Create a playbook called balance.yml as follows:

\* The playbook contains a play that runs on hosts in balancers host group and uses the balancer role.

--> This role configures a service to loadbalance webserver requests between hosts in the webserver host group.

--> When implemented, browsing to hosts in the balancers host group (for example

<http://node5.example.com>)

should produce the following output:

Welcome to node3.example.com on 192.168.10.z

--> Reloading the browser should return output from the alternate web server: Welcome to node4.example.com on 192.168.10.a

\* The playbook contains a play that runs on hosts in webserver host group and uses the phphello role.

--> When implemented, browsing to hosts in the webserver host group with the URL / hello.php should produce the following output:

Hello PHP World from FQDN

--> where FQDN is the fully qualified domain name of the host. For example,

browsing

to <http://node3.example.com/hello.php>, should produce the following output: Hello PHP World from node3.example.com

\*

Similarly, browsing to <http://node4.example.com/hello.php>, should produce the following output:

Hello PHP World from node4.example.com

A. Mastered

B. Not Mastered

**Answer:** A

#### Explanation:

Solution as:

```
# pwd
```

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

```
# vim balancer.yml
```

```
--
```

```
- name: Including phphello role hosts: webserver
```

```
roles:
```

```
- ./roles/phphello
```

```
- name: Including balancer role hosts: balancer
```

```
roles:
```

```
- ./roles/balancer wq!
```

```
# ansible-playbook balancer.yml --syntax-check
```

```
# ansible-playbook balancer.yml
```

### 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)  
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 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 6

- (Exam Topic 1)

Create the users in the file usersjist.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 7**

- (Exam Topic 1)

Create a playbook called timesync.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 8**

- (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
```



```
#l/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 9

- (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 10

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