

# RedHat

## EX447 Exam

Red Hat Certified Architect (RHCA)

# Questions & Answers

(Demo Version - Limited Content)

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# Version: 5.0

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## Question: 1

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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". See the Explanation for complete Solution below.

### Explanation

`/home/sandy/ansible/apache.yml`



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

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

---

## Question: 2

---

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 `ispw_dev` and the password is 'dev' and the other is `ispw_mgr` and the password is 'mgr' Create a regular file called `secret.txt` which contains the password for `lock.yml`.

See the Explanation for complete Solution below.

### Explanation

ansible-vault create lock.yml

New Vault Password: reallysafepw

Confirm: reallysafepw

In file:

```
pw_dev: dev
```

```
pw_mgr: mgr
```

---

### Question: 3

---

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.

See the Explanation for complete Solution below.

#### 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>

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### Question: 4

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Create a file called `packages.yml` in `/home/sandy/ansible` to install some packages for the following hosts. On

`dev`, `prod` and `webserver`s 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.

See the Explanation for complete Solution below.

#### Explanation

Solution as:

```
---
- name: install pack
  hosts: dev,test,webserver
  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

---

### Question: 5

---

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.

See the

#### **Explanation**

for complete Solution below.

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'`

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