



EX447^{Q&As}

Red Hat Certified Specialist in Advanced Automation: Ansible Best Practices

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QUESTION 1

CORRECT TEXT 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. See the for complete Solution below.

Correct Answer: A

ansible-vault create lock.yml New Vault Password: reallysafepw Confirm: reallysafepw

In file:

```
pw_dev: dev
pw_mgr: mgr
```

QUESTION 2

CORRECT TEXT

Create a file called `packages.yml` in `/home/sandy/ansible` to install some packages for the following hosts. On `dev`, `prod` and `webserver` 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. See the for complete Solution below.

Correct Answer: A

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

QUESTION 3

CORRECT TEXT

Create a file called requirements.yml in /home/sandy/ansible/roles a file called role.yml in /home/sandy/ansible/. The haproxy-roles 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-roles should be used on the prod host.

A. See the for complete Solution below.

Correct Answer: A

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 `curlhttp://node3.example.com`

QUESTION 4

CORRECT TEXT

Create a role called sample-apache and store it in /home/bob/ansible/roles. The role should

satisfy the following requirements:

In the role, install and enable httpd. Also enable the firewall to allow http. Also run the template

index.html.j2 and make sure this runs Create a template index.html.j2that displays "Welcome to the server
HOSTNAME"

In a play called apache.yml in /home/bob/ansible/ run the sample-apache role.

A. See the for complete Solution below.

Correct Answer: A

/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
  firewall:
    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
```

QUESTION 5

CORRECT TEXT

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.

You will have access to 5 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 node 1 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 webserver.

A. See the for complete Solution below.

Correct Answer: A

```
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] node2.example.com [proxy] node3 .example.com
[prod] node4.example.com node5 .example.com [webserver:children] prod
```

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