

# EX447<sup>Q&As</sup>

Red Hat Certified Specialist in Advanced Automation: Ansible Best Practices

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**QUESTION 1**

**CORRECT TEXT**

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. See the for complete Solution below.

Correct Answer: A

/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
```

## QUESTION 2

### CORRECT TEXT

Create a file called mysecret.yml on the control host using ansible vault in home/bob/ansible. Set the password to `\\'notasafepass\\'` and inside the file create a variable called dev\_pass with the value of devops. Save the file. Then go back in the file and change dev\_pass value to devops123. Then change the vault password of mysecret.yml to verysafepass

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 3

### CORRECT TEXT

Create a file called requirements.yml in /home/sandy/ansible/roles and a file called role.yml in /home/sandy/ansible/. The http-proxy 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-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 playbook that changes the default target on all nodes to multi-user target. Do this in playbook file called target.yml in /home/sandy/ansible

A. See the for complete Solution below.

Correct Answer: A

-

name: change default target

hosts: all

tasks:

-

name: change target

file:

src:/usr/lib/systemd/system/multi-user.target dest: /etc/systemd/system/default.target state:

link

## QUESTION 5

### CORRECT TEXT

Using the Simulation Program, perform the following tasks:

Static Inventories Task:

1.  
Add a new group to your default ansible host file. call the group [ec2]
  2.  
Add a newhost to the new group you created.
  3.  
Add a variable to a new host entry in the /etc/ansible/hosts file. Add the following. localhost http\_port=80 maxRequestsPerChild=808
  4.  
Check to see if maxRequestsPerChild is pulled out with an ad-hoccommand.
  5.  
Create a local host file and put a target group and then a host into it. Then ping it with an ad-hoc command.
- A. See the for complete Solution below.

Correct Answer: A

1.  
Edit the /etc/ansible/hosts file. Add a group.
2.  
Edit the /etc/ansible/hosts file. Add a user under the group you created.
3.  
Edit the /etc/ansible/hosts file. Find a host. if we add a variable called maxRequestsPerChild to the host it would look like this. host1 maxRequestsPerChild=808
4.  
ansible ec2 -m shell -a "echo {{ maxRequestsPerChild }}"
5.  
Edit a local file. It could be called anything. Lets call it myhosts. Inside the file it would have a host like the following.  
[mygroup] myusername1.mylabserver.com

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