



# 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 jinja template in /home/sandy/ansible/ and name it hosts.j2. Edit this file so it looks like the one below. The order of the nodes doesn't matter. Then create a playbook in /home/sandy/ansible/calledhosts.yml and install the template on dev node at /root/myhosts

```
127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4
::1      localhost localhost.localdomain localhost6 localhost6.localdomain6

10.0.2.1      node1.example.com    node1
10.0.2.2      node2.example.com    node2
10.0.2.3      node3.example.com    node3
10.0.2.4      node4.example.com    node4
10.0.2.5      node5.example.com    node5
```

A. See the for complete Solution below.

Correct Answer: A

Solution as:

in /home/sandy/ansible/hosts.j2

```
{%for host in groups['all']%}
{{hostvars[host]['ansible_default_ipv4']['address']}} {{hostvars[host]['ansible_fqdn']}}
{{hostvars[host]['ansible_hostname']}}
{%endfor%}
```

in /home/sandy/ansible/hosts.yml

---

```
- name: use template
  hosts: all
  template:
    src: hosts.j2
    dest: /root/myhosts
  when: "dev" in group_names
```



## QUESTION 2

### CORRECT TEXT

Create the users in the fileusersjst.ymlfile provided. Do this in a playbook called users.yml located at/home/sandy/ansible.The passwords for these users should be set using thelock.ymlfile from TASK7. When running the playbook, the lock.yml file should be unlocked withsecret.txtfile from TASK 7.

All users with the job of '\\developer\\' should be created on thedevhosts, add them to the group devops, their password should be set using thepw\_devvariable. Likewise create users with the job of '\\manager\\' on theproxyhost and add the users to the group '\\managers\\', their password should be set using thepw\_mgrvariable.

users\_list.yml

```
users:
  - username: bill
    job: developer
  - username: chris
    job: manager
  - username: dave
    job: test
  - username: ethan
    job: developer
```

A. See the for complete Solution below.

Correct Answer: A

ansible-playbook users.yml --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}}"
```

### QUESTION 3

#### 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: 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 4

##### CORRECT TEXT

Create an empty encrypted file called myvault.yml in /home/sandy/ansible and set the password to notsafepw. Rekey the password to iwej2221.

A. See the for complete Solution below.

Correct Answer: A

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

#### QUESTION 5

##### CORRECT TEXT

Install and configure ansible

User bob has been created on your control node. Give him the appropriate permissions on the control node. Install the necessary packages to run ansible on the control node.

Create a configuration file /home/bob/ansible/ansible.cfg to meet the following requirements:

The roles path should include /home/bob/ansible/roles, as well as any other path that may be required for the course of the sample exam.

The inventory file path is /home/bob/ansible/inventory.

Ansible should be able to manage 10 hosts at a single time.

Ansible should connect to all managed nodes using the bob user.

Create an inventory file for the following five 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 node1 is a member of groupdev. node2 is a member of group test, node3 is a member of groupproxy,node4 and node 5 are members of groupprod.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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