



EX447^{Q&As}

Red Hat Certified Specialist in Advanced Automation: Ansible Best Practices

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QUESTION 1

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 ult-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 2

CORRECT TEXT

Create a file called requirements.yml in /home/sandy/ansible/roles to install two roles. The source for the first role is geerlingguy.haproxy and geerlingguy.php. Name the first haproxy-role and the second php-role. The roles should be installed in /home/sandy/ansible/roles.

A. See the for complete Solution below.

Correct Answer: A

in /home/sandy/ansible/roles vim requirements.yml



```
- src: geerlingguy.haproxy
  name: haproxy-role
- src: geerlingguy.php_role
  name: php_role
```

Run the requirements file from the roles directory:

```
ansible-galaxy install -r requirements.yml -p /home/sandy/ansible/roles
```

QUESTION 3

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

QUESTION 4

CORRECT TEXT

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.

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 curl http://node3.example.com

**QUESTION 5**

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
```

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