

Red Hat

Exam Questions EX294

Red Hat Certified Engineer (RHCE) exam



NEW QUESTION 1

- (Exam Topic 2)

Create user accounts

 --> A list of users to be created can be found in the file called user_list.yml which you should download from http://classroom.example.com/user_list.yml and save to /home/admin/ansible/
 --> Using the password vault created elsewhere in this exam, create a playbook called create_user.yml that creates user accounts as follows:
 --> Users with a job description of developer should be:
 --> created on managed nodes in the "dev" and "test" host groups assigned the password from the "dev_pass" variable and these user should be member of supplementary group "devops".
 --> Users with a job description of manager should be:
 --> created on managed nodes in the "prod" host group assigned the password from the "mgr_pass" variable and these user should be member of supplementary group "opsmgr"
 --> Passwords should use the "SHA512" hash format. Your playbook should work using the vault password file created elsewhere in this exam. while practising you to create these file hear. But in exam have to download as per question.

user_list.yml file consist:

```
--
user:
- name: user1 job: developer
- name: user2 job: manager
```

Solution:

Solution as:

```
# pwd
/home/admin/ansible
#
wget http://classroom.example.com/user_list.yml
# cat user_list.yml
# vim create_user.yml
--
- name: hosts: all vars_files:
- ./user_list.yml
- ./vault.yml tasks:
- name: creating groups group:
name: "{{ item }}" state: present
loop:
- devops
- opsmgr
- name: creating user user:
name: "{{ item.name }}" state: present
groups: devops
password: "{{ dev_pass|password_hash('sha512') }}" loop: "{{ user }}"
when: (inventory_hostname in groups['dev'] or inventory_hostname in groups['test']) and item.job == "developer"
- name: creating user user:
name: "{{ item.name }}" state: present
groups: opsmgr
password: "{{ mgr_pass|password_hash('sha512') }}" loop: "{{ user }}"
when: inventory_hostname in groups['prod'] and item.job == "manager" wq!
# ansible-playbook create_user.yml --vault-password-file=password.txt --syntax-check
# ansible-playbook create_user.yml --vault-password-file=password.txt
```

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 2

- (Exam Topic 2)

Create a playbook called web.yml as follows:

- * The playbook runs on managed nodes in the "dev" host group
- * Create the directory /webdev with the following requirements:
 --> membership in the apache group
 --> regular permissions: owner=r+w+execute, group=r+w+execute, other=r+execute s.p=set group-id
- * Symbolically link /var/www/html/webdev to /webdev
- * Create the file /webdev/index.html with a single line of text that reads: "Development"

-->
 it should be available on <http://servera.lab.example.com/webdev/index.html>

Solution:

Solution as:

```
# pwd
/home/admin/ansible/
# vim web.yml
--
- name: hosts: dev tasks:
- name: create group yum:
```

```
name: httpd state: latest
- name: create group group:
name: apache state: present
- name: creating directory file:
path: /webdev state: directory mode: '2775' group: apache
- sefcontext:
target: '/webdev/index.html' setype: httpd_sys_content_t state: present
- name: Apply new SELinux file context to filesystem command: restorecon -irv
- name: creating symbolic link file:
src: /webdev
dest: /var/www/html/webdev state: link
force: yes
- name: creating file file:
path: /webdev/index.html
sate: touch
- name: Adding content to index.html file copy:
dest: /webdev/index.html content: "Development"
- name: add service to the firewall firewall:
service: http permanent: yes state: enabled immediate: yes
- name: active http service service:
name: httpd state: restarted enabled: yes wq
# ansible-playbook web.yml --syntax-check
# ansible-playbook web.yml
```

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 3

- (Exam Topic 2)

Create an Ansible vault to store user passwords as follows:

- * The name of the vault is valut.yml
- * The vault contains two variables as follows:
 - dev_pass with value wakennym
 - mgr_pass with value rocky
- * The password to encrypt and decrypt the vault is atenorth
- * The password is stored in the file /home/admin/ansible/password.txt

Solution:

Solution as:

```
# pwd
/home/admin/ansible
# echo "atenorth" >password.txt
# chmod 0600 password.txt
# ansible-vault create vault.yml --vault-password-file=password.txt
--
- dev_pass: wakennym
- mgr_pass: rocky wq
# cat vault.yml
$ANSIBLE_VAULT;1.1;AES256 36383862376164316436353665343765643331393433373564613762666531313034336438353662
3464346331346461306337633632393563643531376139610a343531326130663266613533633562
38623439316631306463623761343939373263333134353264333834353264343934373765643737
3535303630626666370a643663366634383863393338616661666632353139306436316430616334
65386134393363643133363738656130636532346431376265613066326162643437643064313863
6633333537303334333437646163343666666132316639376531
# ansible-vault view vault.yml password:*****
--
- dev_pass: wakennym
- mgr_pass: rocky
```

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 4

- (Exam Topic 2)

Create a playbooks called packages.yml that:

- > Installs the php and mariadb packages on hosts in the dev, test, and prod host groups.
- > Installs the Development Tools package group on hosts in the dev host group.
- > Updates all packages to the latest version on hosts in the dev host group.

Solution:

Solution as:

```
# pwd home/admin/ansible/
```

```
# vim packages.yml
--
- name: Install the packages hosts: dev,test,prod
vars:
- php_pkg: php
- mariadb_pkg: mariadb tasks:
- name: install the packages yum:
name:
- "{{ php_pkg }}"
- "{{ mariadb_pkg }}"
state: latest
- name: install the devops tool packages hosts: dev
tasks:
- name: install development tools yum:
name: "@Development Tools" state: latest
- name: upgrade all the packages yum:
name: "*" state: latest
exclude: kernel*
!wq
# ansible-playbook package.yml --syntax-check
# ansible-playbook package.yml
```

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 5

- (Exam Topic 1)

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.

Solution:

/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
  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

```

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 6

- (Exam Topic 1)

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".

Solution:

/home/sandy/ansible/apache.yml

```

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

```

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

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 7

- (Exam Topic 1)

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 called hosts.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
```

Solution:

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
```

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 8

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