

# Red-Hat

## Exam Questions EX294

Red Hat Certified Engineer (RHCE) exam



### NEW QUESTION 1

- (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

A. Mastered

B. Not Mastered

**Answer: A**

#### Explanation:

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
```

### NEW QUESTION 2

- (Exam Topic 2)

Create a playbook called balance.yml as follows:

\* The playbook contains a play that runs on hosts in balancers host group and uses the balancer role.

--> This role configures a service to loadbalance webserver requests between hosts in the webservers host group.curl

--> When implemented, browsing to hosts in the balancers host group (for example

http://node5.example.com)

should produce the following output:

Welcome to node3.example.com on 192.168.10.z

--> Reloading the browser should return output from the alternate web server: Welcome to node4.example.com on 192.168.10.a

\* The playbook contains a play that runs on hosts in webservers host group and uses the phphello role.

--> When implemented, browsing to hosts in the webservers host group with the URL / hello.php should produce the following output:

Hello PHP World from FQDN

--> where FQDN is the fully qualified domain name of the host. For example,

browsing

to http://node3.example.com/hello.php, should produce the following output: Hello PHP World from node3.example.com

\*

Similarly, browsing to http://node4.example.com/hello.php, should produce the following output:

Hello PHP World from node4.example.com

A. Mastered

B. Not Mastered

**Answer: A**

#### Explanation:

Solution as:

```
# pwd
/home/admin/ansible/
# vim balancer.yml
--
- name: Including phphello role hosts: webservers
roles:
- ./roles/phphello
- name: Including balancer role hosts: balancer
roles:
- ./roles/balancer wq!
# ansible-playbook balancer.yml --syntax-check
# ansible-playbook balancer.yml
```

### NEW QUESTION 3

- (Exam Topic 2)

Install the RHEL system roles package and create a playbook called timesync.yml that:

- > Runs over all managed hosts.
- > Uses the timesync role.
- > Configures the role to use the time server 192.168.10.254 ( Hear in redhat lab use "classroom.example.com" )
- > Configures the role to set the iburst parameter as enabled.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Solution as:

```
# pwd home/admin/ansible/
# sudo yum install rhel-system-roles.noarch -y
# cd roles/
# ansible-galaxy list
# cp -r /usr/share/ansible/roles/rhelsystem-roles.timesync .
# vim timesync.yml
--
- name: timesynchronization hosts: all
vars:
timesync_ntp_provider: chrony timesync_ntp_servers:
- hostname: classroom.example.com _ in exam its ip-address iburst: yes
timezone: Asia/Kolkata roles:
- rhel-system-roles.timesync tasks:
- name: set timezone timezone:
name: "{{ timezone }}" wq!
timedatectl list-timezones | grep india
# ansible-playbook timesync.yml --syntax-check
# ansible-playbook timesync.yml
# ansible all -m shell -a 'chronyc sources -v'
# ansible all -m shell -a 'timedatectl'
# ansible all -m shell -a 'systemctl is-enabled chronyd'
```

**NEW QUESTION 4**

- (Exam Topic 1)

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.

Configure these nodes to be in an inventory file where node 1 is a member of group dev. nodc2 is a member of group test, node3 is a member of group proxy, nodc4 and node 5 are members of group prod. Also, prod is a member of group webservers.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

```
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]
node 1 .example.com [test]
[proxy]
node3 .example.com [prod] node4.example.com node5 .example.com [webservers:children] prod
```

**NEW QUESTION 5**

- (Exam Topic 1)

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 group dev. nodc2 is a member of group test, nodc3 is a member of group proxy, nodc4 and node 5 are members of group prod. Also, prod is a member of group webservers.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

```
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]
node 1.example.com
[test]
node2.example.com
[proxy]
node3 .example.com
[prod]
node4.example.com
node5 .example.com
[webservers:children]
prod
```

### NEW QUESTION 6

- (Exam Topic 1)

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

All users with the job of 'developer' should be created on the dev hosts, add them to the group devops, their password should be set using the pw\_dev variable. Likewise create users with the job of 'manager' on the proxy host and add the users to the group 'managers', their password should be set using the pw\_mgr variable.

users\_list.yml

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

```

#### NEW QUESTION 7

- (Exam Topic 1)

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. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

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>

#### NEW QUESTION 8

- (Exam Topic 1)

Create a playbook called webdev.yml in 'home/sandy/ansible'. The playbook will create a directory Avcbdev on dev host. The permission of the directory are 2755 and owner is webdev. Create a symbolic link from /Webdev to /var/www/html/webdev. Serve a file from Avebdev7index.html which displays the text "Development" Curl http://node1.example.com/webdev/index.html to test

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Solution as:

```

- name: webdev
  hosts: dev
  tasks:
    - name: create webdev user
      user:
        name: webdev
        state: present
    - name: create a directory
      file:
        mode: '2755'
        path: /webdev
        state: directory
    - name: create symbolic link
      file:
        src: /webdev
        path: /var/www/html/webdev
        state: link
    - name: create index.html
      copy:
        content: Development
        dest: /webdev/index.html
    - name: Install selinux policies
      yum:
        name: python3-policycoreutils
        state: present
    - name: allow httpd from this directory
      sefcontext:
        target: '/webdev(/.*)?'
        setype: httpd_sys_content_t
        state: present
    - name: restore the context
      shell: restorecon -vR /webdev
  
```

**NEW QUESTION 9**

- (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
  
```

- A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

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
```

#### NEW QUESTION 10

- (Exam Topic 1)

In /home/sandy/ansible/ create a playbook called logvol.yml. In the play create a logical volume called lv0 and make it of size 1500MiB on volume group vg0. If there is not enough space in the volume group print a message "Not enough space for logical volume" and then make a 800MiB lv0 instead. If the volume group still doesn't exist, create a message "Volume group doesn't exist" Create an xfs filesystem on all lv0 logical volumes. Don't mount the logical volume.

A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Solution as:

```
- name: hosts
hosts: all
tasks:
- name: create partition
  parted:
    device: /dev/vdb
    number: 1
    flags: [ lvm ]
    state: present
- name: create vg
  lvg:
    vg: vg0
    pvs: /dev/vdb1
    when: ansible_devices.vdb.partitions.vdb1 is defined
- name: create logical volume
  lvol:
    vg: vg0
    lv: lv0
    size: 1500m
    when: ansible_lvm.vgs.vg0 is defined and ((ansible_lvm.vgs.vg0.size_g | float) > 1.5)
- name: send message if volume group not large enough
  debug:
    msg: Not enough space for logical volume
    when: ansible_lvm.vgs.vg0 is defined and ((ansible_lvm.vgs.vg0.size_g | float) < 1.5)
- name: create a smaller logical volume
  lvol:
    vg: vg0
    lv: lv0
    size: 1500m
    when: ansible_lvm.vgs.vg0 is defined and ((ansible_lvm.vgs.vg0.size_g | float) < 1.5)
- name: create fs
  filesystem:
    dev: /dev/vg0/lv0
    fstype: xfs
    when: ansible_lvm.vgs.vg0 is defined
```

**NEW QUESTION 10**

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