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 363838623761643164363536653437656433313934333735646137626665313130343336438353662
346434633134646130633763336232393536364353137613 9610a3435313261306632666135336336 35562
386234393166631306463623761343 9393732633333134353264333834353264343934373 765643737
35353036306266663 70a64366363666343838 6333 9333386 16661666632353139306436316436 0616334
65386134393363643133 3637386561306365 3234643137626561306632616 264343764306431 3863
663333353730333433 334376461633436 66666132316639376531
ansible-vault view vault.yml password:******
--
- dev_pass: wakennym
- mgr_pass: rocky

NEW QUESTION 2
- (Exam Topic 2)
Create a role called apache in "/home/admin/ansible/roles" with the following requirements:
--> The httpd package is installed, enabled on boot, and started.
--> The firewall is enabled and running with a rule to allow access to the web server.
--> template file index.html.j2 is used to create the file /var/www/html/index.html with the output:
Welcome to HOSTNAME on IPADDRESS
--> Where HOSTNAME is the fqdn of the managed node and IPADDRESS is the IP-Address of the managed node.
note: you have to create index.html.j2 file.
--> Create a playbook called httpd.yml that uses this role and the playbook runs on hosts in the webservers host group.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:
----
pwd
/home/admin/ansible/roles/
ansible-galaxy init apache
vim apache/vars/main.yml
--
vars file for apache http_pkg: httpd firewall_pkg: firewalld http_srv: httpd firewall_srv: firewalld rule: http
webpage: /var/www/html/index.html template: index.html.j2
wq!
vim apache/tasks/package.yml
--
- name: Installing packages yum:
name:
- "{{http_pkg}}"
- "{{firewall_pkg}}" state: latest
wq!
vim apache/tasks/service.yml
--
- name: start and enable http service service:
name: "{{http_srv}}"
enabled: true state: started
- name: start and enable firewall service service:
name: "{{firewall_srv}}" enabled: true
state: started wq!
vim apache/tasks/firewall.yml

--
- name: Adding http service to firewall firewalld:
service: "{{rule}}" state: enabled permanent: true immediate: true wq!
vim apache/tasks/webpage.yml
--
- name: creating template file template:
src: "{{template}}"
dest: "{{webpage}}" notify: restart_httpd
!wq
vim apache/tasks/main.yml
tasks file for apache
- import_tasks: package.yml
- import_tasks: service.yml
- import_tasks: firewall.yml
- import_tasks: webpage.yml wq!
vim apache/templates/index.html.j2
Welcome to {{ ansible_facts.fqdn }} on {{ ansible_facts.default_ipv4.address }}
vim apache/handlers/main.yml
--
handlers file for apache
- name: restart_httpd service:
name: httpd state: restarted wq!
cd ..
pwd
/home/admin/ansible/
vim httpd.yml
--
- name: Including apache role hosts: webservers
pre_tasks:
- name: pretask message
debug:
msg: 'Ensure webserver configuration' roles:
- ./roles/apache post_tasks:
- name: Check webserver uri:
url: "http://{{ ansible_facts.default_ipv4.address }} "
return_content: yes status_code: 200 wq!
ansible-playbook httpd.yml –-syntax-check
ansible-playbook httpd.yml
#
curl http://serverx

NEW QUESTION 3
- (Exam Topic 2)
Modify file content.

Create a playbook called /home/admin/ansible/modify.yml as follows:
* The playbook runs on all inventory hosts
* The playbook replaces the contents of /etc/issue with a single line of text as follows:
--> On hosts in the dev host group, the line reads: "Development"
--> On hosts in the test host group, the line reads: "Test"
--> On hosts in the prod host group, the line reads: "Production"

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:
pwd
/home/admin/ansible
vim modify.yml
--
- name: hosts: all tasks:
- name: copy:
content: "Development" dest: /etc/issue
when: inventory_hostname in groups['dev']
- name: copy:
content: "Test" dest: /etc/issue
when: inventory_hostname in groups['test']
- name: copy:
content: "Production" dest: /etc/issue
when: inventory_hostname in groups['prod'] wq
ansible-playbook modify.yml –-syntax-check
ansible-playbook modify.yml

NEW QUESTION 4
- (Exam Topic 2)
Install and configure Ansible on the control-node control.realmX.example.com as follows:

--> Install the required packages

--> Create a static inventory file called /home/admin/ansible/inventory as follows: node1.realmX.example.com is a member of the dev host group node2.realmX.example.com is a member of the test host group node3.realmX.example.com & node4.realmX.example.com are members of the prod host group node5.realmX.example.com is a member of the balancers host group. prod group is a member of the webservers host group
--> Create a configuration file called ansible.cfg as follows:
--> The host inventory file /home/admin/ansible/inventory is defined
--> The location of roles used in playbooks is defined as /home/admin/ansible/ roles

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:
Through physical host, login to workstation.lab.example.com with user root.
ssh root@workstation.lab.example.com
hostname workstation.lab.example.com
yum install platform-python*
su - admin
pwd
/home/admin/
vim .vimrc
mkdir -p ansible/roles
cd ansible
vim inventory [dev]
servera.lab.example.com [test] serverb.example.com [prod] serverc.example.com serverd.example.com [balancer] serverd.lab.example.com [webservers:children] prod
!wq
# vim ansible.cfg [defaults]
inventory = ./inventory
role_path = ./roles remote_user = admin ask_pass = false [privilege_escalation] become = true become_method = sudo become_user = root become_ask_pass = false
!wq
ansible all -–list-hosts

NEW QUESTION 5
- (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 6
- (Exam Topic 2)
Use Ansible Galaxy with a requirements file called /home/admin/ansible/roles/ install.yml to download and install roles to /home/admin/ansible/roles from the following URLs:
http://classroom.example.com /role1.tar.gz The name of this role should be balancer
http://classroom.example.com /role2.tar.gz The name of this role should be phphello

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:
pwd
/home/admin/ansible/roles
vim install.yml
--
src: http://classroom.example.com/role1.tar.gz name: balancer
src: http://classroom.example.com/role2.tar.gz name: phphello
wq!
pwd
/home/admin/ansible
ansible-galaxy install -r roles/install.yml -p roles

NEW QUESTION 7
- (Exam Topic 2)
Create and run an Ansible ad-hoc command.
--> As a system administrator, you will need to install software on the managed nodes.
--> Create a shell script called yum-pack.sh that runs an Ansible ad-hoc command to create yum-repository on each of the managed nodes as follows:
--> repository1
----
* 1. The name of the repository is EX407
* 2. The description is "Ex407 Description"
* 3. The base URL is http://content.example.com/rhel8.0/x86_64/dvd/BaseOS/
* 4. GPG signature checking is enabled
* 5. The GPG key URL is http://content.example.com/rhel8.0/x86_64/dvd/RPM-GPG-KEYredhat- release
* 6. The repository is enabled
--> repository2
----
* 1. The name of the repository is EXX407
* 2. The description is "Exx407 Description"
* 3. The base URL is http://content.example.com/rhel8.0/x86_64/dvd/AppStream/
* 4. GPG signature checking is enabled
* 5. The GPG key URL is http://content.example.com/rhel8.0/x86_64/dvd/ RPM-GPG-KEYredhat- release
* 6. The repository is enabled

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:
pwd
/home/admin/ansible
vim yum-pack.sh
#!/bin/bash
ansible all -m yum_repository -a 'name=EX407 description="Ex407 Description"
baseurl=http://content.example.com/rhel8.0/x86_64/dvd/BaseOS/
gpgcheck=yes
gpgkey=http://content.example.com/rhel8.0/x86_64/dvd/RPM-GPG-KEY-redhat-release
enabled=yes'
ansible all -m yum_repository -a 'name=EXX407 description="Exx407 Description"
baseurl=http://content.example.com/rhel8.0/x86_64/dvd/AppStream/
gpgcheck=yes
gpgkey=http://content.example.com/rhel8.0/x86_64/dvd/RPM-GPG-KEY-redhat-release
enabled=yes'
!wq
chmod +x yum-pack.sh
bash yum-pack.sh
ansible all -m command -a 'yum repolist all'

NEW QUESTION 8
- (Exam Topic 1)
Create a playbook that changes the default target on all nodes to multi-user tarqet. Do this in playbook file called target.yml in /home/sandy/ansible

A. Mastered
B. Not Mastered

Answer: A

Explanation:
- 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

NEW QUESTION 9
- (Exam Topic 1)

Create a playbook called regulartasks.yml which has the system that append the date to /root/datefile every day at noon. Name is job 'datejob'

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:

```
- name: Creates a cron file under /etc/cron.d
  cron:
    name: datejob
    hour: "12"
    user: root
    job: "date >> /root/ datefile"
```

NEW QUESTION 10
- (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/invenlory.
Configure these nodes to be in an inventory file where node I 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 10
- (Exam Topic 1)
Create a file called packages.yml in /home/sandy/ansible to install some packages for the following hosts. On dev, prod and webservers install packages httpd, mod_ssl, and mariadb. On dev only install the development tools package. Also, on dev host update all the packages to the latest.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:

```
---
- name: install pack
  hosts: dev,test,webservers
  become: true
  tasks:
    - name: install on all hosts in this play
      yum:
        name:
          - httpd
          - mod_ssl
          - mariadb
        state: latest
    - name: install on dev only
      yum:
        name:
          - '@Development tools'
        state: latest
      when: "dev" in group_names

~
```

** NOTE 1 a more acceptable answer is likely 'present' since it's not asking to install the latest
state: present
** NOTE 2 need to update the development node
- name: update all packages on development node yum:
'*'name:
state: latest

NEW QUESTION 14
- (Exam Topic 1)
Create an empty encrypted file called myvault.yml in /home/sandy/ansible and set the password to
notsafepw. Rekey the password to iwejfj2221. See the

A. Mastered
B. Not Mastered

Answer: A

Explanation:
ansible-vault create myvault.yml
Create new password: notsafepw Confirm password: notsafepw ansible-vault rekey myvault.yml
Current password: notsafepw New password: iwejfj2221 Confirm password: iwejfj2221

NEW QUESTION 17
- (Exam Topic 1)
Create a playbook called issue.yml in /home/sandy/ansible which changes the file /etc/issue on all managed nodes: If host is a member of (lev then write
"Development" If host is a member of test then write "Test" If host is a member of prod then write "Production"

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:

```
---
- name: issue file
  hosts: dev,test,prod
  tasks:
      - name: edit development node
        copy:
            content: Development
            dest: /etc/issue
        when: "dev" in group_names
      - name: edit test node
        copy:
            content: Test
            dest: /etc/issue
        when: "test" in group_names
      - name: edit development node
        copy:
            content: Production
            dest: /etc/issue
        when: "prod" in group_names
...
```

NEW QUESTION 19
- (Exam Topic 1)
Create the users in the file usersjist.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

```yaml
---
- 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 24
- (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:

```yaml
- 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 29

- (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 33
- (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 38
- (Exam Topic 1)
In /home/sandy/ansible/ create a playbook called logvol.yml. In the play create a logical volume called Iv0 and make it of size 1500MiB on volume group vgO If there is not enough space in the volume group print a message "Not enough space for logical volume" and then make a 800MiB Iv0 instead. If the volume group still doesn't exist, create a message "Volume group doesn't exist" Create an xfs filesystem on all Iv0 logical volumes. Don't mount the logical volume.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:

```yaml
- 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 42
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