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 questation.
user_list.yml file consist:
--
user:
- name: user1 job: developer
- name: user2 job: manager

A. Mastered
B. Not Mastered

Answer: A

Explanation:
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

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

A. Mastered
B. Not Mastered

Answer: A

Explanation:
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 directiory 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 firewalld:
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

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)
Create a playbook called hwreport.yml that produces an output file called /root/ hwreport.txt on all managed nodes with the following information:

--> Inventory host name
--> Total memory in MB
--> BIOS version
--> Size of disk device vda
--> Size of disk device vdb
Each line of the output file contains a single key-value pair.
* Your playbook should:
-->
Download the file hwreport.empty from the URL http://classroom.example.com/ hwreport.empty and
save it as /root/hwreport.txt
--> Modify with the correct values.
note: If a hardware item does not exist, the associated value should be set to NONE
---
while practising you to create these file hear. But in exam have to download as per questation.
hwreport.txt file consists. my_sys=hostname

my_BIOS=biosversion my_MEMORY=memory my_vda=vdasize my_vdb=vdbsize

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:
pwd
/home/admin/ansible
vim hwreport.yml
- name: hosts: all
ignore_errors: yes tasks:
- name: download file get_url:
url: http://classroom.example.com/content/ex407/hwreport.empty dest: /root/hwreport.txt
- name: vdasize replace:
regexp: "vdasize"
replace: "{{ ansible_facts.devices.vda.size }}" dest: /root/hwreport.txt
register: op1
- debug:
var: op1
- name: none replace:
regexp: "vdasize" replace: NONE
dest: /root/hwreport.txt when:
op1.failed == true
- name: vdbsize replace:
regexp: "vdbsize"
replace: "{{ ansible_facts.devices.vdb.size }}" dest: /root/hwreport.txt
register: op2
- debug: var: op2
- name: none replace:
regexp: "vdbsize" replace: NONE
dest: /root/hwreport.txt when:
op2.failed == true
- name: sysinfo replace:
regexp: "{{item.src}}"
replace: "{{item.dest}}" dest: /root/hwreport.txt loop:
- src: "hostname"
dest: "{{ ansible_facts.fqdn }}"
- src: "biosversion"
dest: "{{ ansible_facts.bios_version }}"
- src: "memory"
dest: "{{ ansible_facts.memtotal_mb }}" wq!
ansible-playbook hwreport.yml -–syntax-check
ansible-playbook hwreport.yml

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)
Generate a hosts file:
*
Download an initial template file hosts.j2 from http://classroom.example.com/ hosts.j2 to
/home/admin/ansible/ Complete the template so that it can be used to generate a file with a
line for each inventory host in the same format as /etc/hosts: 172.25.250.9 workstation.lab.example.com workstation
* Create a playbook called gen_hosts.yml that uses this template to generate the file
/etc/myhosts on hosts in the dev host group.
* When completed, the file /etc/myhosts on hosts in the dev host group should have a line for
each managed host:
* 127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4
::1 localhost localhost.localdomain localhost6 localhost6.localdomain6
* 172.25.250.10 serevra.lab.example.com servera
* 172.25.250.11 serevrb.lab.example.com serverb
* 172.25.250.12 serevrc.lab.example.com serverc
* 172.25.250.13 serevrd.lab.example.com serverd
---
while practising you to create these file hear. But in exam have to download as per questation.
hosts.j2 file consists.
localhost localhost.localdomain localhost4 localhost4.localdomain4
::1
localhost localhost.localdomain localhost6 localhost6.localdomain6

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:
pwd
/home/admin/ansible
#
wget http://classroom.example.com/hosts.j2
vim hosts.j2
* 127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4 ::1 localhost localhost.localdomain localhost6 localhost6.localdomain6
{% for host in groups['all'] %}
{{ hostvars[host]['ansible_facts']['default_ipv4']['address'] }} {{ hostvars[host] ['ansible_facts']['fqdn'] }} {{ hostvars[host]['ansible_facts']['hostname'] }}
{% endfor %} wq!
vim gen_hosts.yml
--
- name: collecting all host information hosts: all
tasks:
- name: template: src: hosts.j2
dest: /etc/myhosts
when: inventory_hostname in groups['dev'] wq
ansible-playbook gen_hosts.yml -–syntax-check
ansible-playbook gen_hosts.yml

NEW QUESTION 7
- (Exam Topic 1)
Create a Shell script /root/program:
The shell script will come back to ”user” parameter when you are entering ”kernel” parameter.
The shell script will come back to ”kernel” when you are entering ”user” parameter.
It will output the standard error when this script ”usage:/root/program kernel|user” don’t input any parameter or the parameter you inputted is entered as the requirements.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

```
[root@server1 virtual]# cat/root/program
#!/bin/bash
param1="$1"
if [ "$param1" == "kernel" ]; then
echo "user"
elif [ "$param1" == "user" ]; then
echo "kernel"
else
echo "usage:/root/program kernel|user"
if
[root@server1 ~]# chmod +x /root/program
```

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 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. Mastered
B. Not Mastered

Answer: A

Explanation:
/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
```

NEW QUESTION 12
- (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 15
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