Exam Questions EX294

Red Hat Certified Engineer (RHCE) exam

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NEW QUESTION 1
- (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 2
- (Exam Topic 2)
Create Logical volumes with lvm.yml in all nodes according to following requirements.
----
* Create a new Logical volume named as 'data'
* LV should be the member of 'research' Volume Group
* LV size should be 1500M
* It should be formatted with ext4 file-system.
--> If Volume Group does not exist then it should print the message "VG Not found"
--> If the VG can not accommodate 1500M size then it should print "LV Can not be created with
following size", then the LV should be created with 800M of size.
--> Do not perform any mounting for this LV.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:
pwd
/home/admin/ansible
vim lvm.yml
--
- name: hosts: all
ignore_errors: yes tasks:
- name: lvol: lv: data
vg: research size: "1500"
- debug:
msg: "VG Not found"
when: ansible_lvm.vgs.research is not defined
- debug:
msg: "LV Can not be created with following size" when: ansible_lvm.vgs.research.size_g < "1.5"
- name: lvol: lv: data
vg: research size: "800"
when: ansible_lvm.vgs.research.size_g < "1.5"
- name:
filesystem: fstype: ext4
dev: /dev/research/data wq!
ansible-playbook lvm.yml –-syntax-check
ansible-playbook lvm.yml

NEW QUESTION 3
- (Exam Topic 2)
Create a playbook 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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
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 devepment 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

NEW QUESTION 4
- (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 5
- (Exam Topic 1)
Create a file in /home/sandy/ansible/ called report.yml. Using this playbook, get a file called report.txt (make it look exactly as below). Copy this file over to all remote hosts at /root/report.txt. Then edit the lines in the file to provide the real information of the hosts. If a disk does not exist then write NONE.

report.txt

```
HOST=inventory hostname
MEMORY=total memory in mb
BIOS=bios version
VDA_DISK_SIZE=disk size
VDB_DISK_SIZE=disk size
```


A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:

```
- name: edit file
  hosts: all
  tasks:
    - name: copy file
      copy:  report.txt
      dest: /root/report.txt
    - name: change host
      lineinefile:
          regex: ^HOST
          line: HOST={{ansible_hostname}}
          state: present
          path: /root/report.txt
    - name: change mem
      lineinefile:
          line: MEMORY={{ansible_memtotal_mb}}
          regex: ^MEMORY
          state: present
          path: /root/report.txt
```

```
    - name: change bios
      lineinefile:
          line: BIOS={{ansible_bios_version}}
          regex: ^BIOS
          state: present
          path: /root/report.txt
    - name: change vda
      lineinefile:
          line: VDA_DISK_SIZE ={%if ansible_devices.vda is defined%}{{ansible_devices.
vda.size}}{%else%}NONE{%endif%}
          regex: ^VDA_DISK_SIZE
          state: present
          path: /root/report.txt
    - name: change vdb
      lineinefile:
          line: VDB_DISK_SIZE ={%if ansible_devices.vdb is defined%}{{ansible_devices.
vdb.size}}{%else%}NONE{%endif%}
          regex: ^VDB_DISK_SIZE
          state: present
          path: /root/report.txt
```

NEW QUESTION 6
- (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: nodel.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 7
- (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 8
- (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 9
- (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 10
- (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 10
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