



Red-Hat

Exam Questions EX294

Red Hat Certified Engineer (RHCE) exam

NEW QUESTION 1

- (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 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 firewallld:
```

```
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 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 webserver's 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: firewallld http_srv: httpd firewall_srv: firewallld 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)

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: 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: lvvol: 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 4

- (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 5

- (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 6

- (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 7

- (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 node1 is a member of group dev, node2 is a member of group test, node3 is a member of group proxy, node4 and node5 are members of group prod. Also, prod is a member of group webserver.

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]

node1 .example.com [test]

[proxy]

node3 .example.com [prod] node4.example.com node5 .example.com [webserver:children] prod

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 webserver 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 iwej2221. 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: iwej2221 Confirm password: iwej2221

NEW QUESTION 10

- (Exam Topic 1)

Create a file called requirements.yml in /home/sandy/ansible/roles to install two roles. The source for the first role is geerlingguy.haproxy and geerlingguy.php. Name the first haproxy-role and the second php-role. The roles should be installed in /home/sandy/ansible/roles.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

in /home/sandy/ansible/roles vim requirements.yml

```
- src: geerlingguy.haproxy
  name: haproxy-role
- src: geerlingguy.php_role
  name: php_role
```

Run the requirements file from the roles directory:

ansible-galaxy install -r requirements.yml -p /home/sandy/ansible/roles

NEW QUESTION 10

- (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 14

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