

Red-Hat

Exam Questions EX294

Red Hat Certified Engineer (RHCE) exam



NEW QUESTION 1

Create a file in /home/sandy/ansible/calledreport.yml. Using this playbook, get a filecalledreport.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 informationofthehosts. 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:

See the explanation for complete Solution below.

Explanation

Solution as:

```
- name: edit file
  hosts: all
  tasks:
    - name: copy file
      copy: report.txt
      dest: /root/report.txt
    - name: change host
      lineinfile:
        regex: ^HOST
        line: HOST={{ansible_hostname}}
        state: present
        path: /root/report.txt
    - name: change mem
      lineinfile:
        line: MEMORY={{ansible_memtotal_mb}}
        regex: ^MEMORY
        state: present
        path: /root/report.txt
    - name: change bios
      lineinfile:
        line: BIOS={{ansible_bios_version}}
        regex: ^BIOS
        state: present
        path: /root/report.txt
    - name: change vda
      lineinfile:
        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
      lineinfile:
        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 2

Create a playbookthatchanges the default target onallnodes tomulti-usertarqet. 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 3

Create a file called packages.yml in /home/sandy/ansible to install some packages for the following hosts. On dev, prod and web servers 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,web servers
  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 4

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 5

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.

You will have access to 5 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 node 1 is a member of group dev. node2 is a member of group test, node3 is a member of group proxy, node4 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]

node1 .example.com [test] node2.example.com [proxy]

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

NEW QUESTION 6

Create a playbook called webdev.yml in /home/sandy/ansible. The playbook will create a directory /webdev 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 /webdev/index.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
    selinux:
      target: '/webdev(/.*)?'
      setype: httpd_sys_content_t
      state: present
  - name: restore the context
    shell: restorecon -vR /webdev
```

NEW QUESTION 7

Create an empty encrypted file calledmyvault.yml in /home/sandy/ansibleand set the passwordtonotsafepw. Rekey the passwordtoiwejfj2221.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

ansible-vault create myvault.yml

Create new password: notsafepw Confirm password: notsafepwansible-vault rekeymyvault.yml

Current password: notsafepw New password: iwejfj2221 Confirm password: iwejfj2221

NEW QUESTION 8

Install and configure ansible

Userbobhas been created on your control node. Give him the appropriate permissions on thecontrol 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 otherpath 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 bobuser.

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 groupdev.nodc2 is a member of group test, nodc3 is a member of groupproxy,nodc4 and node 5 are members of groupprod.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
[webserver:children]
prod
```

NEW QUESTION 9

Create a file calledrequirements.ymlin/home/sandy/ansible/rolesa file calledrole.yml in

/home/sandy/ansible/.Thehaproxy-rolesshould be used on theproxyhost. And when you curl http://node3.example.comit should display "Welcome tonode4.example.com" and when you curl again "Welcome tonode5.example.com"Thephp-rolesshould be used on theprodhost.

- 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 `curlhttp://node3.example.com`

NEW QUESTION 10

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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