Red-Hat

Exam Questions EX294

Red Hat Certified Engineer (RHCE) exam

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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)
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 36383862376164316436353665343765643331393433373564613762666531313034336438353662
34643463313464613063376336323935636435313761396l0a343531326130663266613533633562
38623439316631306463623761343939373263333134353264333834353264343934373765643737
3535303630626666370a643663366634383863393338616661666632353139306436316430616334
65386134393363643133363738656130636532346431376265613066326162643437643064313863
6633333537303334333437646163343666666132316639376531
ansible-vault view vault.yml password:******
--
- dev_pass: wakennym
- mgr_pass: rocky

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)
Rekey an existing Ansible vault as follows:
---
*
Download Ansible vault from http:// classroom.example.com /secret.yml to /home/ admin/ansible/
* The current vault password is curabete
* The new vault password is newvare
* The vault remains in an encrypted state with the new password

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:
pwd
/home/admin/ansible/
#
wget http://classroom.example.com/secret.yml
chmod 0600 newpassword.txt
ansible-vault rekey vault.yml --new-vault-password-file=newpassword.txt

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 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 9
- (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 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 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 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 18
- (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 23
- (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

```
---
- 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)
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 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 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 26
- (Exam Topic 1)
Create an ansible vault password file called lock.yml with the password reallysafepw in the
/home/sandy/ansible directory. In the lock.yml file define two variables. One is pw_dev and the password is 'dev' and the other is pw_mgr and the password is 'mgr'
Create a regular file called secret.txt which contains the password for lock.yml.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
ansible-vault create lock.yml
New Vault Password: reallysafepw Confirm: reallysafepw
In File:

```
pw_dev: dev
pw_mgr: mgr
```

NEW QUESTION 28
.....

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