EX294 Dumps

Red Hat Certified Engineer (RHCE) exam

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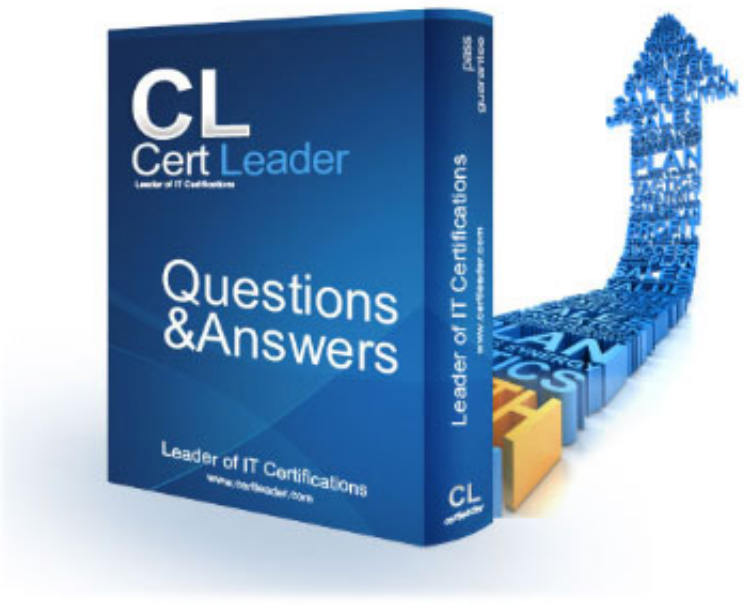

NEW QUESTION 1
- (Exam Topic 2)
Create an Ansible vault to store user passwords as follows:
* The name of the vault is valut.yml
* The vault contains two variables as follows:
- dev_pass with value wakennym
- mgr_pass with value rocky
* The password to encrypt and decrypt the vault is atenorth
* The 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 3638386237616431643635366534376564333139343337356461376266653131303433643836536 2
346434633134646130633763363239356364353137613961 0a343531326130663266613533633562
386234393166313064636237613439393732633331343532643338343532643439343737656437 37
353530363062666637 0a643663366634383863393338616661666632353139306436316430616334
653861343933636431333637386561306365323464313762656130663261626434376430643138 63
663333353730333433343764616334366666613231663937653 1
ansible-vault view vault.yml password:******
--
- dev_pass: wakennym
- mgr_pass: rocky

NEW QUESTION 2
- (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 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)
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)
Install and configure Ansible on the control-node control.realmX.example.com as follows:

--> Install the required packages
--> Create a static inventory file called /home/admin/ansible/inventory as follows: node1.realmX.example.com is a member of the dev host group node2.realmX.example.com is a member of the test host group node3.realmX.example.com & node4.realmX.example.com are members of the prod host group node5.realmX.example.com is a member of the balancers host group. prod group is a member of the webservers host group
--> Create a configuration file called ansible.cfg as follows:
--> The host inventory file /home/admin/ansible/inventory is defined
--> The location of roles used in playbooks is defined as /home/admin/ansible/ roles

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:
Through physical host, login to workstation.lab.example.com with user root.
ssh root@workstation.lab.example.com
hostname workstation.lab.example.com
yum install platform-python*
su - admin
pwd
/home/admin/
vim .vimrc
mkdir -p ansible/roles
cd ansible
vim inventory [dev]
servera.lab.example.com [test] serverb.example.com [prod] serverc.example.com serverd.example.com [balancer] serverd.lab.example.com [webservers:children] prod
!wq
# vim ansible.cfg [defaults]
inventory = ./inventory
role_path = ./roles remote_user = admin ask_pass = false [privilege_escalation] become = true become_method = sudo become_user = root become_ask_pass = false
!wq
ansible all -–list-hosts

NEW QUESTION 7

- (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 8
- (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 9
- (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 10
- (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 10
- (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 11
- (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 16
- (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 20
- (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 22
- (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 26
- (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 30
- (Exam Topic 1)
Create a file called adhoc.sh in /home/sandy/ansible which will use adhoc commands to set up a new repository. The name of the repo will be 'EPEL' the description 'RHEL8' the baseurl is 'https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rmp' there is no gpgcheck, but you should enable the repo.
* You should be able to use an bash script using adhoc commands to enable repos. Depending on your lab setup, you may need to make this repo "state=absent" after you pass this task.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

chmod 0777 adhoc.sh
vim adhoc.sh
#I/bin/bash
ansible all -m yum_repository -a 'name=EPEL description=RHEL8 baseurl=https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rmp gpgcheck=no enabled=yes'

NEW QUESTION 35
.....

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