

EX294 Dumps

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 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)

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 4

- (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 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
    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 6

- (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 7

- (Exam Topic 1)

Create a playbook called timesync.yml in /home/sandy/ansible using rhel system role timesync. Set the time to use currently configured ntp with the server 0.uk.pool.ntp.org. Enable burst. Do this on all hosts.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution as:

```
- name: use rhel system role
hosts: all
roles:
  - rhel-system-roles.timesync
timesync_ntp_servers:
  - hostname: 0.uk.pool.ntp.org
  iburst: yes
```

NEW QUESTION 8

- (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 9

- (Exam Topic 1)

Create a playbook called webdev.yml in 'home/sandy/ansible. The playbook will create a directory Avcbdev 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 Avebdev7index.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
    sefcontext:
      target: '/webdev(/.*)?'
      setype: httpd_sys_content_t
      state: present
  - name: restore the context
    shell: restorecon -vR /webdev
```

NEW QUESTION 10

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