

Red-Hat

Exam Questions EX294

Red Hat Certified Engineer (RHCE) exam



NEW QUESTION 1

- (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 2

- (Exam Topic 2)

Rekey an existing Ansible vault as follows:

*
Download Ansible vault from [http:// classroom.example.com /secret.yml](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 3

- (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 4

- (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: 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 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]
node2.example.com
[proxy]
node3 .example.com
[prod]
node4.example.com
node5 .example.com
[webserver:children]
prod
```

NEW QUESTION 5

- (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: webserver
  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 6

- (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 7

- (Exam Topic 1)

Create a file called specs.empty in home/bob/ansible on the local machine as follows: HOST=

MEMORY= BIOS=

VDA_DISK_SIZE= VDB_DISK_SIZE=

Create the playbook /home/bob/ansible/specs.yml which copies specs.empty to all remote nodes' path

/root/specs.txt. Using the specs.yml playbook then edit specs.txt on the remote machines to reflect the appropriate ansible facts.

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 8

- (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 10

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