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EX407

Red Hat Certified Specialist in Ansible Automation exam

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Question: 1

control.realmX.example.com _ workstation.lab.example.com
node1.realmX.example.com _ servera.lab.example.com
node2.realmX.example.com _ serverb.lab.example.com
node3.realmX.example.com _ serverc.lab.example.com
node4.realmX.example.com _ serverd.lab.example.com
node5.realmX.example.com
- username:root, password:redhat
- username:admin, password:redhat
note1. don't change 'root' or 'admin' password.
note2. no need to create ssh-keygen for access, its pre-defined
note3. SELinux is in enforcing mode and firewalld is disabled/stop on whole managed hosts.
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. See the Explanation for complete Solution below.

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

Question: 2

Create a file called mysecret.yml on the control host using ansible vault in home/bob/ansible. Set the password to 'notasafepass' and inside the file create a variable called dev_pass with the value of devops. Save the file. Then go back in the file and change dev_pass value to devops123. Then change the vault password of mysecret.yml to verysafepass

A. See the Explanation for complete Solution below.

Answer: A

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

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

Question: 3

control.realmX.example.com _ workstation.lab.example.com
node1.realmX.example.com _ servera.lab.example.com
node2.realmX.example.com _ serverb.lab.example.com
node3.realmX.example.com _ serverc.lab.example.com
node4.realmX.example.com _ serverd.lab.example.com
node5.realmX.example.com
- username:root, password:redhat
- username:admin, password:redhat
note1. don't change 'root' or 'admin' password.
note2. no need to create ssh-keygen for access, its pre-defined
note3. SELinux is in enforcing mode and firewalld is disabled/stop on whole managed hosts.
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.htm 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. See the Explanation for complete Solution below.

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:
```

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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

Question: 4

control.realmX.example.com _ workstation.lab.example.com
node1.realmX.example.com _ servera.lab.example.com
node2.realmX.example.com _ serverb.lab.example.com
node3.realmX.example.com _ serverc.lab.example.com
node4.realmX.example.com _ serverd.lab.example.com
node5.realmX.example.com
- username:root, password:redhat
- username:admin, password:redhat
note1. don't change 'root' or 'admin' password.
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note3. SELinux is in enforcing mode and firewalld is disabled/stop on whole managed hosts.
Modify file content.
Create a playbook called /home/admin/ansible/modify.yml as follows:
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* 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"
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-- > On hosts in the prod host group, the line reads: "Production"
See the Explanation for complete Solution below.

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

Question: 5

control.realmX.example.com _ workstation.lab.example.com
node1.realmX.example.com _ servera.lab.example.com
node2.realmX.example.com _ serverb.lab.example.com
node3.realmX.example.com _ serverc.lab.example.com
node4.realmX.example.com _ serverd.lab.example.com
node5.realmX.example.com
- username:root, password:redhat
- username:admin, password:redhat
note1. don't change 'root' or 'admin' password.
note2. no need to create ssh-keygen for access, its pre-defined
note3. SELinux is in enforcing mode and firewalld is disabled/stop on whole managed hosts.
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. See the Explanation for complete Solution below.

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
```

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