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Exam : **EX407**

Title : Red Hat Certified Specialist in Ansible Automation exam

Version : DEMO

1.CORRECT TEXT

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

Answer:

ansible-vault create lock.yml

New Vault Password: reallysafepw

Confirm: reallysafepw

In file:

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

2.CORRECT TEXT

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.

Answer:

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
```

3.CORRECT TEXT

Create a file called packages.yml in/home/sandy/ansibleto install somepackages 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.

Answer:

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 developmentnode yum:

name: '*'

state: latest

4.CORRECT TEXT

Create a role called sample-apache and store it in /home/bob/ansible/roles.

The role should satisfy the following requirements:

*In the role, install and enable httpd. Also enable the firewall to allow http. Also run the template

*index.html.j2 and make sure this runs Create a template index.html.j2 that displays "Welcome to the server HOSTNAME"

In a play called apache.yml in /home/bob/ansible/ run the sample-apache role.

Answer:

/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
```

5.CORRECT TEXT

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/ansiblecalledhosts.ymland 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
```

Answer:

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
```