EX447^{Q&As}

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Red Hat Certified Specialist in Advanced Automation: Ansible Best
Practices

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QUESTION 1

CORRECT TEXT Create an ansible vault password file calledlock.ymlwith the passwordreallysafepwin the /home/sandy/ansibledirectory. In the lock.yml file define two variables. One ispw_devand the password is \\'dev\\' and the other ispw_mgrand the password is \\'mgr\\' Create a regular file calledsecret.txtwhich contains the password for lock.yml.

A. See the for complete Solution below.

Correct Answer: A

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

```
In file:
pw_dev: dev
pw_mgr: mgr
```

QUESTION 2

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
```

A. See the for complete Solution below.

Correct Answer: A

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

QUESTION 3

CORRECT TEXT

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.

You will have access to 5 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 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. See the for complete Solution below.

Correct Answer: A

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 [webservers:children] prod

QUESTION 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.j2that displays "Welcome to the server HOSTNAME"

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

A. See the for complete Solution below.

Correct Answer: A

/home/sandy/ansible/apache.yml

/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.addre
```

In /home/sandy/ansible/roles/sample-apache/handlers/main.yml

```
- name: restart
  service:
      name: httpd
      state: restarted
```

QUESTION 5

CORRECT TEXT

Create a file in/home/sandy/ansible/calledreport.yml.Using this playbook, get a filecalled 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 informationofthehosts. Ifa 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. See the for complete Solution below.

Correct Answer: A

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
```

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