Exam Questions EX447

Red Hat Certified Specialist in Advanced Automation: Ansible Best Practices

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NEW QUESTION 1
Create a playbook called issue.yml in /home/sandy/ansible which changes the file /etc/issue on all managed nodes: If host is a member of (lev then write "Development" If host is a member of test then write "Test" If host is a member of prod then write "Production"

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Solution as:

```
---
- name: issue file
  hosts: dev,test,prod
  tasks:
      - name: edit development node
        copy:
            content: Development
            dest: /etc/issue
        when: "dev" in group_names
      - name: edit test node
        copy:
            content: Test
            dest: /etc/issue
        when: "test" in group_names
      - name: edit development node
        copy:
            content: Production
            dest: /etc/issue
        when: "prod" in group_names
...
```

NEW QUESTION 2
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: 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
```

NEW QUESTION 3
Create an ansible vault password file called lock.yml with the password reallysafepw in the
/home/sandy/ansible directory. In the lock.yml file define two variables. One is pw_dev and the password is 'dev' and the other is pw_mgr and the password is 'mgr'
Create a regular file called secret.txt which contains the password for lock.yml.

A. Mastered
B. Not Mastered

Answer: A

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

In file:

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

NEW QUESTION 4
Using the Simulation Program, perform the following tasks: Ad-Hoc Ansible Commands (Number Two) Task:
* 1. Use the ad-hoc command to make sure php is installed.
* 2. Use the ad-hoc command to make sure that php is installed and is the latest version.
* 3. Use the ad-hoc command to make sure that httpd is installed.
* 4. Use the ad-hoc command to remove httpd from the servers.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
* 1. ansible all -b -m yum -a 'name=php state=present'
* 2. ansible all -b -m yum -a 'name=php state=latest'
* 3. ansible all -b -m yum -a 'name=httpd state=latest'
* 4. ansible all -b -m yum -a 'name=httpd state=absent'

NEW QUESTION 5
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. 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]
node 1 .example.com [test] node2.example.com [proxy]
node3 .example.com [prod] node4.example.com node5 .example.com [webservers:children] prod

NEW QUESTION 6
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 7
In /home/sandy/ansible/ create a playbook called logvol.yml. In the play create a logical volume called Iv0 and make it of size 1500MiB on volume group vgO If there is not enough space in the volume group print a message "Not enough space for logical volume" and then make a 800MiB Iv0 instead. If the volume group still doesn't exist, create a message "Volume group doesn't exist" Create an xfs filesystem on all Iv0 logical volumes. Don't mount the logical volume.

A. Mastered

B. Not Mastered

Answer: A

Explanation:
Solution as:

```
- name: hosts
  hosts: all
  tasks:
  - name: create partition
    parted:
      device: /dev/vdb
      number: 1
      flags: [ lvm ]
      state: present
  - name: create vg
    lvg:
      vg: vg0
      pvs: /dev/vdb1
    when: ansible_devices.vdb.partitions.vdb1 is defined
  - name: create logical volume
    lvol:
      vg: vg0
      lv: lv0
      size: 1500m
    when: ansible_lvm.vgs.vg0 is defined and ( (ansible_lvm.vgs.vg0.size_g | float ) > 1.5)
  - name: send message if volume group not large enough
    debug:
      msg: Not enough space for logical volume
    when: ansible_lvm.vgs.vg0 is defined and ( (ansible_lvm.vgs.vg0.size_g | float ) < 1.5)
  - name: create a smaller logical volume
    lvol:
      vg: vg0
      lv: lv0
      size: 1500m
    when: ansible_lvm.vgs.vg0 is defined and ( (ansible_lvm.vgs.vg0.size_g | float ) < 1.5)
  - name: create fs
    filesystem:
      dev: /dev/vg0/lv0
      fstype: xfs
    when: ansible_lvm.vgs.vg0 is defined
```

NEW QUESTION 8
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 9
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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
/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.address}}
```

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

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

NEW QUESTION 10
Using the Simulation Program, perform the following tasks: Static Inventories Task:
* 1. Add a new group to your default ansible host file. call the group [ec2]
* 2. Add a new host to the new group you created.
* 3. Add a variable to a new host entry in the /etc/ansible/hosts file. Add the following. localhost http_port=80 maxRequestsPerChild=808
* 4. Check to see if maxRequestsPerChild is pulled out with an ad-hoc command.
* 5. Create a local host file and put a target group and then a host into it. Then ping it with an ad-hoc command.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
* 1. Edit the /etc/ansible/hosts file. Add a group.
* 2. Edit the /etc/ansible/hosts file. Add a user under the group you created.
* 3. Edit the /etc/ansible/hosts file. Find a host. if we add a variable called maxRequestsPerChild to the host it would look like this. host1 maxRequestsPerChild=808
* 4. ansible ec2 -m shell -a "echo {{ maxRequestsPerChild }}"
* 5. Edit a local file. It could be called anything. Lets call it myhosts. Inside the file it would have a host like the following. [mygroup] myusername1.mylabserver.com

NEW QUESTION 10
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: nodel.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. nodc2 is a member of group test, nodc3 is a member of group proxy, nodc4 and node 5 are members of group prod. Also, prod is a member of group webservers.

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]
node 1 .example.com
[test]
node2.example.com
[proxy]
node3 .example.com
[prod]
node4.example.com
node5 .example.com
[webservers:children]
prod

NEW QUESTION 15
Create a playbook /home/bob/ansible/timesync.yml that runs on hosts in the webservers host group and does the following:
• Uses the timesync RHEL system role.
• Sets the ntp server to 0.uk.pool.ntp.org
• Sets the timezone to UTC

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 16
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
     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
```

NEW QUESTION 17
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