

# EX447<sup>Q&As</sup>

Red Hat Certified Specialist in Advanced Automation: Ansible Best Practices

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## QUESTION 1

### CORRECT TEXT

Install and configure ansible

Userbobhas 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 maybe 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 groupdev, node2 is a member of group test, node3 is a member of group proxy, node4 and node 5 are members of group prod. Also, node1 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 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.

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
    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
```

### QUESTION 3

#### CORRECT TEXT

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. See the for complete Solution below.

Correct Answer: A

/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
```

#### QUESTION 4

##### CORRECT TEXT

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. See the for complete Solution below.

Correct Answer: A

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
```

#### QUESTION 5

##### CORRECT TEXT

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. See the for complete Solution below.

Correct Answer: A

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.

```
ansibleall -b -m yum -a '\name=httpd state=absent\'
```

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