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Questions & Answers

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Version: 4.0

Question: 1

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:

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 group dev. node2 is a member of group test, node3 is a member of group proxy, node4 and node 5 are members of group prod. Also, prod is a member of group webservers.

Solution

```
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
```

Question: 2

Create a file called `adhoc.sh` in `/home/sandy/ansible` which will use adhoc commands to set up a new repository. The name of the repo will be 'EPEL' the description 'RHEL8' the baseurl is '<https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm>' there is no `gpgcheck`, but you should enable the repo.

* You should be able to use an bash script using adhoc commands to enable repos. Depending on your lab setup, you may need to make this repo "state=absent" after you pass this task.

Solution

```
chmod 0777 adhoc.sh
vim adhoc.sh
#!/bin/bash
ansible all -m yum_repository -a 'name=EPEL description=RHEL8
baseurl=https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm
gpgcheck=no enabled=yes'
```

Question: 3

Create a file called `packages.yml` in `/home/sandy/ansible` to install some packages 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.

Solution

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 development node
yum:
name: '*'
state: latest

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