Vendor: Red Hat

Exam Code: EX294

Exam Name: Red Hat Certified Engineer (RHCE) EX294 RHEL 9

Version: DEMO

01. Install and Configure Ansible

Follow the instructions below to install and configure Ansible on the control node:

1. Install the required software packages.

2. Create a static inventory file named /home/greg/ansible/inventory with the following requirements:
- node1 is a member of the dev host group.
- node2 is a member of the test host group.
- node3 and node4 are members of the prod host group.
- node5 is a member of the balancers host group.
- The prod group is a member of the webservers host group.

3. Create a configuration file named /home/greg/ansible/ansible.cfg with the following requirements:
- The host inventory file is located at /home/greg/ansible/inventory.
- The roles used in playbooks are located at /home/greg/ansible/roles.
- Custom collection directory is located at /home/greg/ansible/mycollection.

Solution:

[Virtual Machine: foundation]
Connect to the control node as the greg user
[kiosk@foundation0 -]$ ssh greg@control

[Virtual Machine: 172.25.250.254|control]
Install Ansible
[greg@control ~]$ sudo yum -y install ansible-core ansible-navigator

Create directories
[greg@control ~]$ mkdir -p /home/greg/ansible/roles

Change working directory
[greg@control ~]$ cd /home/greg/ansible

Generate the ansible.cfg configuration file
[greg@control ansible]$ ansible-config init --disabled > /home/greg/ansible/ansible.cfg

Create the collection storage directory
[greg@control ansible]$ mkdir /home/greg/ansible/mycollection

Edit the configuration file
[greg@control ansible]$ vim ansible.cfg
[defaults]
inventory = /home/greg/ansible/inventory
remote_user = greg
host_key_checking = False
roles_path = /home/greg/ansible/roles:/usr/share/ansible/roles
collections_path=./mycollection/:.ansible/collections:/usr/share/ansible/collections
[privilege_escalation]
become=True

Confirm the effective configuration file (mandatory)
[greg@control ansible]$ ansible --version
[greg@control ansible]$ ansible-galaxy list

```
# Create the inventory host list
[greg@control ansible]$ vim /home/greg/ansible/inventory
[dev]
node1
[test]
node2
[prod]
node3
node4
[balancers]
node5
[webservers:children]
prod

# Verification: If all nodes can be pinged, it indicates that there are no problems with the
configuration files, accounts, or inventory. (mandatory)
[greg@control ansible]$ ansible-inventory --graph
[greg@control ansible]$ ansible all -m ping

# Verification: This command can verify that podman's login, execution environment download is
correct, and view collections. (mandatory, if not done, it will affect subsequent questions using
docs and running playbooks)
[greg@control ansible]$ podman login utility.lab.example.com -u admin -p redhat
[greg@control ansible]$ ansible-navigator images
[greg@control ansible]$ ansible-navigator collections
```

02. Configure your system to use default repositories

As a system administrator, you need to install software on managed nodes.

Follow the instructions to create a file named /home/greg/ansible/yum_repo.yml and install yum repositories on each managed node.

Repository 1:
Repository Name: EX294_BASE
Description: EX294 base software
Base URL: http://content/rhel9.0/x86_64/dvd/BaseOS
GPG signature check: Enabled
GPG key URL: http://content/rhel9.0/x86_64/dvd/RPM-GPG-KEY-redhat-release
Repository: Enabled

Repository 2:
Repository Name: EX294_STREAM
Description: EX294 stream software
Base URL: http://content/rhel9.0/x86_64/dvd/AppStream
GPG signature check: Enabled
GPG key URL: http://content/rhel9.0/x86_64/dvd/RPM-GPG-KEY-redhat-release
Repository: Enabled

Solution:

```
[Virtual Machine: 172.25.250.254|control]
# Confirm all managed nodes
[greg@control ansible]$ ansible-inventory --graph
```

```
# Look up module names
[greg@control ansible]$ ansible-doc -l | grep yum

# Check module usage. ==/EX==, search for EXAMPLE in the manual
[greg@control ansible]$ ansible-doc yum_repository

# Set vim editor's indentation format
[greg@control ansible]$ echo set nu ts=2 et cuc sw=2 autoindent > ~/.vimrc

# Edit playbook
[greg@control ansible]$ vim /home/greg/ansible/yum_repo.yml
---
- name: create repository
  hosts: all
  tasks:
    - name: add BaseOS repo
      yum_repository:
        name: EX294_BASE
        description: "EX294 base software"
        baseurl: http://content/rhel9.0/x86_64/dvd/BaseOS
        gpgcheck: yes
        gpgkey: http://content/rhel9.0/x86_64/dvd/RPM-GPG-KEY-redhat-release
        enabled: yes

    - name: add AppStream repo
      yum_repository:
        name: EX294_STREAM
        description: "EX294 stream software"
        baseurl: http://content/rhel9.0/x86_64/dvd/AppStream
        gpgcheck: yes
        gpgkey: http://content/rhel9.0/x86_64/dvd/RPM-GPG-KEY-redhat-release
        enabled: yes

# Run playbook (New way of running playbook in Ansible, must do commands in lines 44-47 of
Question 01)
[greg@control ansible]$ ansible-navigator run yum_repo.yml -m stdout

# Verify both repositories (BaseOS, AppStream, mandatory operation)
# Verification: Check all nodes, if software installation is complete, it indicates successful
configuration.
[greg@control ansible]$ ansible all -a 'yum repoinfo'
[greg@control ansible]$ ansible all -a 'yum -y install ftp'
[greg@control ansible]$ ansible all -a 'rpm -q ftp'
```

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