

Module 3: Ansible Modules and Roles

Demo Document - 4

edureka!

© Brain4ce Education Solutions Pvt. Ltd.

Demo: Create Ansible Playbook with Jinja2 template

Problem Statement:

A monitoring server has newly been introduced in your environment. We need to update the **agents.conf** file with a list of servers in the environment and their details using jinja2 template.

Solution Steps:

1. Create **generate-agent.info.yml** which is used to update **agents.conf** as shown below.

```
- hosts: monitoring_server
  tasks:
    - template:
      src: agents.conf.j2
      dest: /etc/monitor/agents.conf
```

2. Navigate to the ~/playbooks/monitoring-server.

The list of servers is given in the **inventory** file under group lamp_app as shown below.

```
thor@ansible-controller ~/monitoring-server$ cat inventory
monitoring_server ansible_host=172.20.1.100 ansible_ssh_pass=Passw0rd ansible_user=root

[lamp_app]
web0001 ansible_hostname=web0001.company.com ansible_host=10.1.1.101 monitor_port=8080 protocol=http
web0002 ansible_hostname=web0002.company.com ansible_host=10.1.1.102 monitor_port=8080 protocol=http
```

This information must be used to generate an **agents.conf** file at **/etc/monitor/agents.conf** on the monitoring_server.

3. Develop a playbook **generate-agent.info.yml** A template file is already given as shown below

```
thor@ansible-controller ~/playbooks/monitoring-server/templates$ cat agents.conf.j2
hostname, ipaddress, monitor_port, type, protocol
```

4. Update the **agent.conf.j2** using jinja2 template as shown.

```
thor@ansible-controller ~$ cat monitoring-server/templates/agents.conf.j2
hostname, ipaddress, monitor_port, type, protocol
{% for host in groups['lamp_app'] %}
{{ host }}, {{ hostvars[host]['ansible_host'] }}, {{ hostvars[host]['monitor_port'] }}, {{ hostvars[host]['protocol'] }}
{% endfor %}
thor@ansible-controller ~$
```

5. Run the playbook using **ansible-playbook -i inventory generate-agent-info.yml** to update agents.conf for hosts present in the inventory.

```
thor@ansible-controller ~/playbooks/monitoring-server$ ansible-playbook -i inventory generate-agent-info.yml
```