DevOps Quest: One Week Deployment Challenge :Day 03

Step1:

add host entry in /etc/ansible/hosts

```
ubuntu@master-node:~$ cd /etc/ansible/
ubuntu@master-node:/etc/ansible$ ls
ansible.cfg  hosts  roles
ubuntu@master-node:/etc/ansible$ cat hosts
# This is the default ansible 'hosts' file.
#
# It should live in /etc/ansible/hosts
#
#   - Comments begin with the '#' character
#   - Blank lines are ignored
#   - Groups of hosts are delimited by [header] elements
#   - You can enter hostnames or ip addresses
#   - A hostname/ip can be a member of multiple groups

# Ex 1: Ungrouped hosts, specify before any group headers:

## green.example.com
## blue.example.com
# 192.168.100.1
## 192.168.100.10

# Ex 2: A collection of hosts belonging to the 'webservers' group:

 [webservers]
## alpha.example.org
## beta.example.org
## 192.168.1.100
 192.168.122.208 ansible_user=satishvm2 ansible_ssh_pass=root

# If you have multiple hosts following a pattern, you can specify
# them like this:

## www[001:006].example.com

# You can also use ranges for multiple hosts:

## db-[99:101]-node.example.com

# Ex 3: A collection of database servers in the 'dbservers' group:
```

[webservers]
alpha.example.org
beta.example.org
192.168.1.100
192.168.122.208 ansible_user=satishvm2 ansible_ssh_pass=root

Step2:
create docker ansible file

```
root@master-node:/home/ubuntu/devops/ansible# cat dockerinstall.yml
---
- name: Install Docker on Ubuntu
  hosts: webservers
  become: yes
  become_method: sudo
  become_user: root
  vars_prompt:
    - name: ansible_become_pass
      prompt: "Enter sudo password"
      private: yes
  tasks:
    - name: Update apt package index
      apt:
        update_cache: yes

    - name: Install required packages
      apt:
        name: "{{ item }}"
        state: present
      loop:
        - apt-transport-https
        - ca-certificates
        - curl
        - gnupg-agent
        - software-properties-common

    - name: Add Docker GPG key
      apt_key:
        url: https://download.docker.com/linux/ubuntu/gpg

    - name: Add Docker repository
      apt_repository:
        repo: deb [arch=amd64] https://download.docker.com/linux/ubuntu bionic stable

    - name: Update apt package index
      apt:
        update_cache: yes

    - name: Install Docker
      apt:
        name: docker-ce
        state: present

    - name: Add user to Docker group
      user:
        name: "{{ ansible_user }}"
        groups: docker
        append: yes
      when: ansible_os_family == 'Debian'


root@master-node:/home/ubuntu/devops/ansible#
```

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vi dockerinstall.yml
ansible Playbook

```
---
- name: Install Docker on Ubuntu
  hosts: webservers
  become: yes
  become_method: sudo
  become_user: root
  vars_prompt:
    - name: ansible_become_pass
      prompt: "Enter sudo password"
      private: yes
  tasks:
    - name: Update apt package index
      apt:
        update_cache: yes

    - name: Install required packages
      apt:
        name: "{{ item }}"
        state: present
      loop:
        - apt-transport-https
        - ca-certificates
        - curl
        - gnupg-agent
        - software-properties-common

    - name: Add Docker GPG key
      apt_key:
        url: https://download.docker.com/linux/ubuntu/gpg

    - name: Add Docker repository
      apt_repository:
        repo: deb [arch=amd64] https://download.docker.com/linux/ubuntu bionic stable

    - name: Update apt package index
      apt:
        update_cache: yes

    - name: Install Docker
      apt:
        name: docker-ce
        state: present

    - name: Add user to Docker group
      user:
        name: "{{ ansible_user }}"
        groups: docker
        append: yes
```

when: ansible_os_family == 'Debian'

Ansible Command

ansible-playbook -i /etc/ansible/hosts dockerinstall.yml

```
root@master-node:/home/ubuntu/devops/ansible# vi dockerinstall.yml
root@master-node:/home/ubuntu/devops/ansible# ansible-playbook  -i  /etc/ansible/hosts dockerinstall.yml
Enter sudo password:

PLAY [Install Docker on Ubuntu] ************************************************************

TASK [Gathering Facts] *********************************************************************
ok: [192.168.122.208]

TASK [Update apt package index] ************************************************************
changed: [192.168.122.208]

TASK [Install required packages] ***********************************************************
ok: [192.168.122.208] => (item=apt-transport-https)
ok: [192.168.122.208] => (item=ca-certificates)
ok: [192.168.122.208] => (item=curl)
ok: [192.168.122.208] => (item=gnupg-agent)
ok: [192.168.122.208] => (item=software-properties-common)

TASK [Add Docker GPG key] ******************************************************************
ok: [192.168.122.208]

TASK [Add Docker repository] ***************************************************************
ok: [192.168.122.208]

TASK [Update apt package index] ************************************************************
changed: [192.168.122.208]

TASK [Install Docker] **********************************************************************
ok: [192.168.122.208]

TASK [Add user to Docker group] ************************************************************
changed: [192.168.122.208]

PLAY RECAP *********************************************************************************
192.168.122.208            : ok=8    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

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Docker will be installed on test machine