

Module 9: Configuration Management with Ansible

Demo Document - 4

edureka!

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Demo – 4: Ansible In Class Project

Note: The text editor used in this demo is vi. You can use any editor of your choice. Also, use a different clean ubuntu VM as a slave VM for this DEMO with connection set up on it.

1. Create a new ansible role

Syntax: `sudo ansible-galaxy init <roleName>`

```
edureka@master:/etc/ansible/roles$ sudo ansible-galaxy init inClassProj
[sudo] password for edureka:
- inClassProj was created successfully
```

2. Now, edit the main.yml file in the tasks directory of your role folder

Syntax: `sudo vi roles/roleName/tasks/main.yml`

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3. Add tasks to your role

```
---
- name: apt-update
  apt:
    update_cache: yes

- name: Install Docker
  apt:
    name: docker.io
    state: present

- name: Create new directory
  file:
    path: /home/edureka/Downloads/dockDeploy
    state: directory

- name: Copy war file
  copy:
    src: /home/edureka/Downloads/addressbook.war
    dest: /home/edureka/Downloads/dockDeploy/

- name: Copy Dockerfile
  copy:
    src: /home/edureka/Downloads/Dockerfile
    dest: /home/edureka/Downloads/dockDeploy/

- name: Build Docker Image
  command: chdir=/home/edureka/Downloads/dockDeploy/ docker build . -t
edureka/inclass

- name: Run Docker Container
  command: chdir=/home/edureka/Downloads/dockDeploy/ docker run -it -d -p
8085:8080 edureka/inclass
```

4. Create a playbook and call the role inside of it

Syntax: `sudo vi <playbookName>`

```
---
- hosts: slave1
  become: true
  roles:
    - role: inClassProj
```

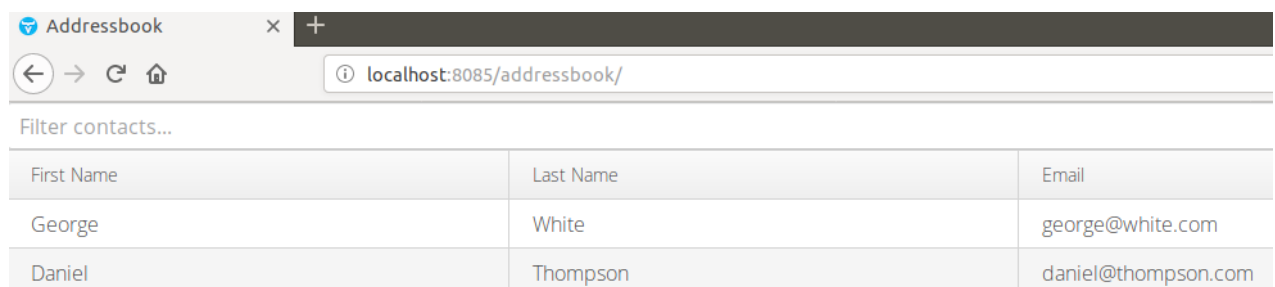
5. Execute the playbook with -K flag to input the sudo password for your slave machine

Syntax: `ansible-playbook -K <playbookName.yaml>`

```
edureka@master:/etc/ansible$ ansible-playbook -K inClass.yaml
SUDO password:
PLAY [slave1] *****
TASK [Gathering Facts] *****
ok: [slave1]
TASK [inClassProj : apt-update] *****
changed: [slave1]
TASK [inClassProj : Install Docker] *****
changed: [slave1]
TASK [inClassProj : Create new directory] *****
changed: [slave1]
TASK [inClassProj : Copy war file] *****
changed: [slave1]
TASK [inClassProj : Copy Dockerfile] *****
changed: [slave1]
TASK [inClassProj : Build Docker Image] *****
changed: [slave1]
TASK [inClassProj : Run Docker Container] *****
changed: [slave1]
PLAY RECAP *****
slave1 : ok=8 changed=7 unreachable=0 failed=0
```

6. Check your slave browser to check if the app has been deployed

Browser link: `localhost:8085/addressbook`



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George	White	george@white.com
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