Module 5: Configuration Management with Ansible

Demo Document - 4

edureka!



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Demo – 4: Ansible Roles (Setting up nginx using Ansible Roles)

Note: The text editor used in this demo is vi. You can use any editor of your choice.

Note: Create a custom index.html file and past it inside the roleName/files directory inside your ansible/roles directory

Navigate to the roles directory in ansible folder

Syntax: cd /etc/ansible/roles

edureka@edureka:~\$ cd /etc/ansible/roles/
edureka@edureka:/etc/ansible/roles\$

Use the ansible-galaxy command to create a role directory structure

Syntax: ansible-galaxy init roleName

edureka@edureka:/etc/ansible/roles\$ sudo ansible-galaxy init demo-role
- demo-role was created successfully

edureka@edureka:/etc/ansible/roles\$ ls demo-role
defaults files handlers meta README.md tasks templates tests vars

Open and edit the main.yml file inside the tasks folder

Syntax: sudo vi roleName/tasks/main.yml

edureka@edureka:/etc/ansible/roles\$ sudo vi demo-role/tasks/main.yml

- - -

- name: Install nginx web server
 apt: pkg=nginx state=installed update_cache=true
 notify:

- start nginx

- name: Upload

copy: src=index.html dest=/usr/share/nginx/www/ mode=0644

register: php

ignore_errors: True

- name: Remove index.html for host

command: rm /usr/share/nginx/www/index.html

when: php|success

- name: Upload default index.html for host

copy: src=index.html dest=/usr/share/nginx/www/ mode=0644

when: php|failed

Edit the main.yml inside the handlers directory

Syntax: sudo vi roleName/handlers/main.yml

edureka@edureka:/etc/ansible/roles\$ sudo vi demo-role/handlers/main.yml

- - -

- name: start nginx

service: name=nginx state=started

Inside the ansible directory create and edit a new playbook to use the role in

Syntax: sudo vi roleName

edureka@edureka:/etc/ansible\$ sudo vi RolesDemo.yml

_ _ _

- hosts: all

become: true

vars:

ansible_become_pass: edureka

roles:

- role: demo-role

Now execute the playbook using the ansible-playbook command

Syntax: ansible-playbook playbookName

```
edureka@edureka:/etc/ansible$ ansible-playbook RolesDemo.yml
ok: [app1]
ok: [db1]
TASK [demo-role : Install nginx web server] *******************
changed: [db1]
changed: [app1]
ok: [db1]
ok: [app1]
TASK [demo-role : Remove index.html for host] ************
skipping: [app1]
skipping: [db1]
TASK [demo-role : Upload default index.html for host] ********************
changed: [app1]
changed: [db1]
ok: [app1]
ok: [db1]
changed=2
                                       failed=0
app1
db1
                             unreachable=0
                     changed=2
                             unreachable=0
                                       failed=0
```

