Seif Eldin Mohamed Aboelhassan Mohamed Hendawy Lab 4

ROLES

Create your first role with name (web)

The task book will include:

1. installing a package

(get the package name from vars)

2. copying a list of files from controller to host using loop

(get the list of file names from vars)

(the actual files will be stored in ./roles/web/files)

(will be executed only when the install task is in state: changed)

Restart the service of the installed package

(will be executed only when the copy task is in state: changed)

HANDLERS

The task book will include:

1. installing a package

(get the package name from vars)

2. copying a list of files from controller to host using loop

(get the list of file names from vars)

(the actual files will be stored in ./roles/web/files)

(will be executed using Handlers)

Restart the service of the installed package

(will be executed using Handlers chaining)

TEMPLATES

The task book will include:

1. installing a package

(get the package name from vars)

2. Copying a file from controller to host using template

(get the template name & template message from vars)

(the actual template file will be stored in ./roles/web/templates)

(will also notify the restart handler)

3. copying a list of files from controller to host using loop

(get the list of file names from vars)

(the actual files will be stored in ./roles/web/files)

(will be executed using Handlers)

Restart the service of the installed package

(will be executed using Handlers chaining)

Role web

```
Lab04

Web

Giles

File.css

Js file.js

Index.html

A handlers

Main.yml

A tasks

Main.yml

Main.yml
```

tasks/main.yml

```
Ansible Tasks Schema - Ansible tasks file (ansible.json)
---
- name: Install the package
apt:
    name: "{{ pkg_name }}"
    state: present
    register: res

- name: print
    debug:
    msg: "{{ res }}"

- name: Copy index from controller to host
    template:
    src: "{{ tmp_name }}"
    dest: "/var/www/html/index.html"
    notify: Copy
    changed_when: true
```

templates/index.html.j2

vars/main.yml

```
Ansible Vars File - Ansible variables File (vars.json)

pkg_name: nginx

tmp_name: index.html.j2

tmp_msg: "Hello, My Name is Seif Hendawy, I'm A DevOps Engineer.<br/>
files_to_copy:
# - index.html
- file.css
- file.js
```

handlers/main.yml

```
Ansible Tasks Schema - Ansible tasks file (ansible.json)
- name: Copy
  copy:
    src: "{{ item }}"
    dest: "/var/www/html/{{ item }}"
  loop: "{{ files to copy }}"
  notify: Copy files to host
  changed when: true
- name: Copy files to host
  debug:
    msg: "Copying files from controller to host"
  notify: Restart service
  changed when: true

    name: Restart service

  sysvinit:
    name: "{{ pkg name }}"
    state: restarted
  when: res.changed != false
```

Playbook

```
Lab04 > A Lab04_Playbook.yml

1 - name: play 1

2 hosts: all
3 roles:
4 - web
5
```

```
seif@seif-Alienware-17-R5:~/Documents/Ansible/Lab04$ ansible-playbook Lab04_Playbook.yml
BECOME password:
},
"cache_update_time": 1694765850,
"cache_updated": false,
"changed": false,
"failed": false
: ok=5 changed=3 unreachable=0
                            failed=0 skipped=1 rescued=0 ignored=0
      × +
        O 各 172.17.0.2
📵 Import bookmarks... 🐞 Gettling Started 🎄 General (DevOps - SV ... 😩 Bard 📵 Gmail 📵 YouTube 📵 Maps 🔞 News 📵 Translate 🦸 Erai-raws - Your First s... 🕀 Subscene - Passionate... 📵 The Official Home of ...
              Hello, My Name is Seif Hendawy, I'm A DevOps Engineer.
                     This is the Ansible course From ITI
```