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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)

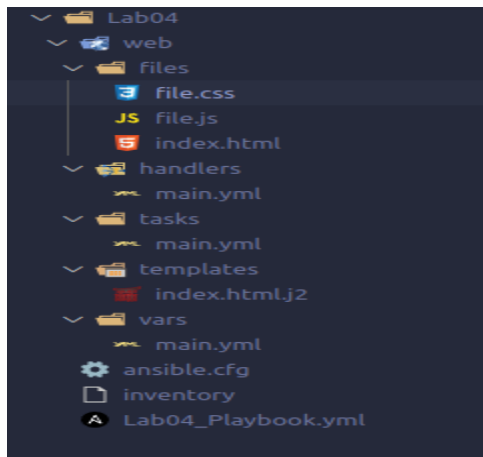
(the actual files will be stored in ./roles/web/files)

(will be executed using Handlers)

Restart the service of the installed package

(will be executed using Handlers chaining)

Role web



tasks/main.yml

```
main.yml x
Lab04 > web > tasks > main.yml > Google Cloud Code > {} template > src
Ansible Tasks Schema - Ansible tasks file (ansible.json)
1 ---
2 - name: Install the package
3   apt:
4     name: "{{ pkg_name }}"
5     state: present
6     register: res
7
8 - name: print
9   debug:
10    msg: "{{ res }}"
11
12 - name: Copy index from controller to host
13   template:
14     src: "{{ tmp_name }}"
15     dest: "/var/www/html/index.html"
16   notify: Copy files from controller to host
17
18 - name: Copy files from controller to host
19   copy:
20     src: "{{ item }}"
21     dest: "/var/www/html/{{ item | basename }}"
22     loop: "{{ files_to_copy }}"
23   notify: Restart service
24
25 - name: Restart service
26   sysvinit:
27     name: "{{ pkg_name }}"
28     state: restarted
29     when: res.changed != false
30
```

templates/index.html.j2

```
main.yml  index.html.j2 x
Lab04 > web > templates > index.html.j2
1  <html>
2  <link rel="stylesheet" type="text/css" href="file.css">
3  <script src="file.js"></script>
4  <body>
5  <center>
6  <h1>{{ tmp_msg }}</h1>
7  </center>
8  </body>
9  </html>
10
```

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> This is the Ansible course From ITI"
files_to_copy:
  # - index.html
  - file.css
  - file.js
```

handlers/main.yml

```
main.yml .../tasks  main.yml .../handlers x
Lab04 > web > handlers > main.yml > YAML > {} 1 > {} service
Ansible Tasks Schema - Ansible tasks file (ansible.json)
1  ---
2  - name: Copy files from controller to host
3    debug:
4      msg: "Copying files from controller to host"
5
6  - name: Restart service
7    service:
8      name: "{{ pkg_name }}"
9      state: restarted
10
```

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:

PLAY [play 1] *****

TASK [Gathering Facts] *****
ok: [172.17.0.2]

TASK [web : Install the package] *****
ok: [172.17.0.2]

TASK [web : print] *****
ok: [172.17.0.2] => {
  "msg": {
    "cache_update_time": 1694765850,
    "cache_updated": false,
    "changed": false,
    "failed": false
  }
}

TASK [web : Copy index from controller to host] *****
ok: [172.17.0.2]

TASK [web : Copy files from controller to host] *****
changed: [172.17.0.2] => (item=file.css)
ok: [172.17.0.2] => (item=file.js)

TASK [web : Restart service] *****
skipping: [172.17.0.2]

RUNNING HANDLER [web : Restart service] *****
changed: [172.17.0.2]

PLAY RECAP *****
172.17.0.2 : ok=6  changed=2  unreachable=0  failed=0  skipped=1  rescued=0  ignored=0

seif@seif-Alienware-17-R5:~/Documents/Ansible/Lab04$
```

172.17.0.2/ x +

← → 172.17.0.2 ☆ Search

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This is the Ansible course From ITI