

Name: Zyad Mohamed Tawfik

Track: DevOps SV

Course: Ansible - Lab4

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

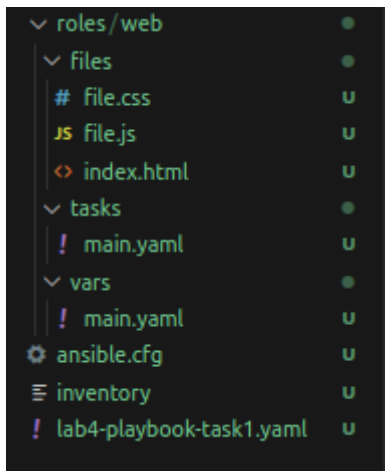
(get the list of file names from vars)

(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)



```
! lab4-playbook-task1.yaml > {} 0 > [ ] roles
1 - name: lab4 playbook - Ziad
2   hosts: all
3   roles:
4     - web
5
```

```
roles > web > vars > ! main.yaml > ...
1 package: "nginx"
2 file_names:
3   - index.html
4   - file.css
5   - file.js
6
```

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```
roles > web > tasks > ! main.yaml > {} 1 > {} copy
1  - name: Install the Package
2    apt:
3      name: "{{ package }}"
4      state: latest
5      register: inst_pkg_res
6
7  - name: Copy Files
8    copy:
9      src: "{{ item }}"
10     dest: "/var/www/html/{{ item }}"
11     loop: "{{ file_names }}"
12     when: inst_pkg_res.changed == True
13     register: copy_res
14
15  - name: Restart Service
16    sysvinit:
17      name: "{{ package }}"
18      state: restarted
19     when: copy_res.changed == True
```

```
ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab4/Task1$ ansible-playbook lab4-playbook-task1.yaml
BECOME password:
```

```
PLAY [lab4 playbook - Ziad] *****
TASK [Gathering Facts] *****
ok: [172.17.0.2]

TASK [web : Install the Package] *****
changed: [172.17.0.2]

TASK [web : Copy Files] *****
changed: [172.17.0.2] => (item=index.html)
changed: [172.17.0.2] => (item=file.css)
changed: [172.17.0.2] => (item=file.js)

TASK [web : Restart Service] *****
changed: [172.17.0.2]

PLAY RECAP *****
172.17.0.2 : ok=4 changed=3 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
```

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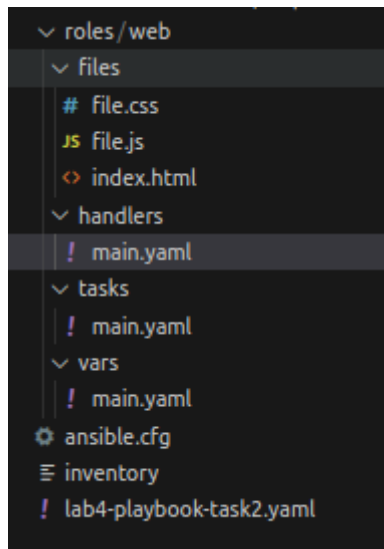
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Create your first role with name (web)

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 using Handlers)
- Restart the service of the installed package
(will be executed using Handlers chaining)



```
! lab4-playbook-task2.yaml > {} 0 > name
1  - name: lab4 playbook task 2- Ziad
2    hosts: all
3  - roles:
4    - web
```

```
roles > web > vars > ! main.yaml > package
1  package: "nginx"
2  file_names:
3    - index.html
4    - file.css
5    - file.js
6
```

```
roles > web > tasks > ! main.yaml > {} 0
1  - name: Install the Package
2    apt:
3      name: "{{ package }}"
4      state: latest
5      notify: Copy Files
6
```

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```
roles > web > handlers > ! main.yml > {} 1 > {} sysvinit > state
1  ∨ - name: Copy Files
2  ∨   copy:
3      |   src: "{{ item }}"
4      |   dest: "/var/www/html/{{ item }}"
5      |   loop: "{{ file_names }}"
6      |   notify: Restart Service
7
8  ∨ - name: Restart Service
9  ∨   sysvinit:
10      |   name: "{{ package }}"
11      |   state: restarted
```

```
● ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab4/Task2$ ansible-playbook lab4-playbook-task2.yml
BECOME password:

PLAY [lab4 playbook task 2- Ziad] *****



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

TASK [web : Install the Package] *****
changed: [172.17.0.2]

RUNNING HANDLER [web : Copy Files] *****
changed: [172.17.0.2] => (item=index.html)
changed: [172.17.0.2] => (item=file.css)
changed: [172.17.0.2] => (item=file.js)

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

PLAY RECAP *****
172.17.0.2          : ok=4    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

← → ↻   172.17.0.2

Hello from ITI || Ansible-Lab-3

Ziad Tawfik

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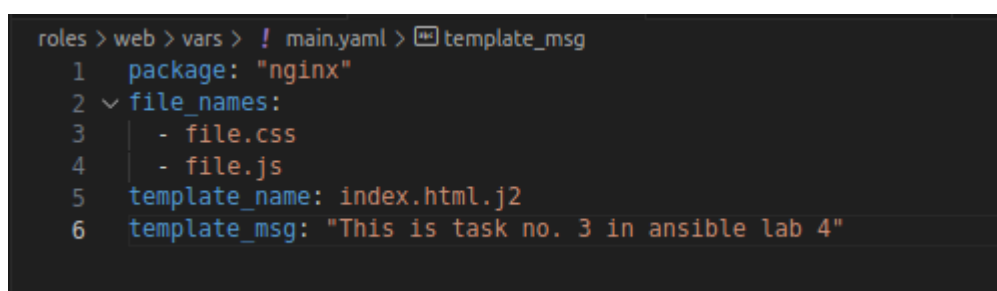
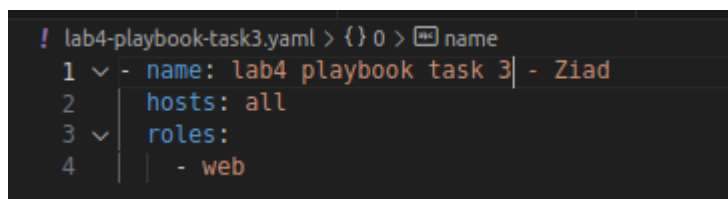
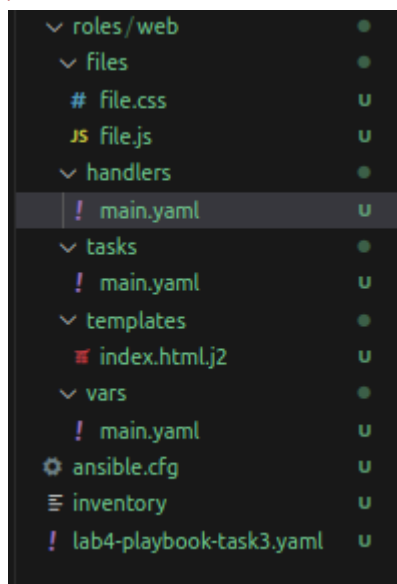
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Create your first role with name (web)

The task book will include:

1. installing a package *(get the package name from vars)*
 2. Copying a 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)



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```
roles > web > templates > index.html.j2
1 <h1>Hello from ITI || Ansible-Lab-3 </h1>
2 <h2> {{ template_msg }} </h2>
3 <h2>Ziad Tawfik</h2>
```

```
roles > web > tasks > ! main.yaml > {} 1 > {} template
1 - name: Install the Package
2   apt:
3     name: "{{ package }}"
4     state: latest
5     notify: Copy Files
6
7 - name: Copy index.html Template
8   template:
9     src: "{{ template_name }}"
10    dest: "/var/www/html/index.html"
11    notify: Restart Service
12
```

```
roles > web > handlers > ! main.yaml > ...
1 < - name: Copy Files
2 <   copy:
3     src: "{{ item }}"
4     dest: "/var/www/html/{{ item }}"
5     loop: "{{ file_names }}"
6     notify: Restart Service
7
8 < - name: Restart Service
9 <   sysvinit:
10    name: "{{ package }}"
11    state: restarted
```

```
ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab4/Task3$ ansible-playbook lab4-playbook-task3.yaml
BECOME password:
```

```
PLAY [lab4 playbook task 3 - Ziad] *****

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

TASK [web : Install the Package] *****
changed: [172.17.0.2]

TASK [web : Copy index.html Template] *****
changed: [172.17.0.2]

RUNNING HANDLER [web : Copy Files] *****
changed: [172.17.0.2] => (item=file.css)
changed: [172.17.0.2] => (item=file.js)

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

PLAY RECAP *****
172.17.0.2 : ok=5 changed=4 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
```

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  172.17.0.2

Hello from ITI || Ansible-Lab-3

This is task no. 3 in ansible lab 4

Ziad Tawfik