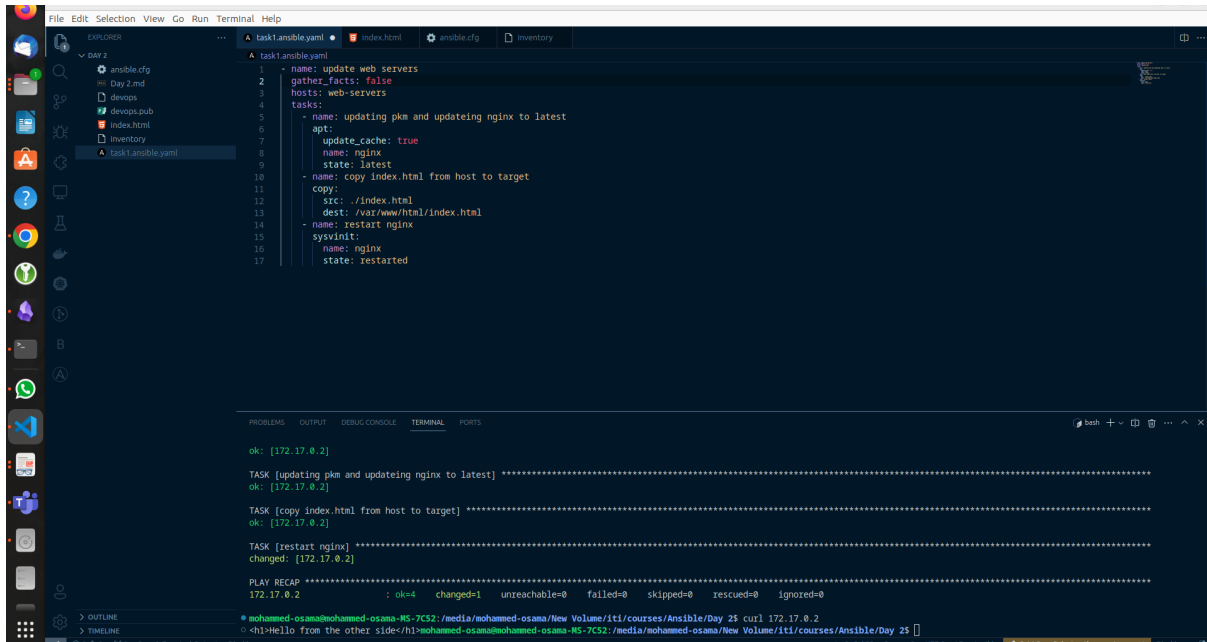


Ansible

Lab 2

Name: Muhammad Osama

Task1 and Task2:



```
1 - name: update web servers
2   gather_facts: false
3   hosts: web-servers
4   tasks:
5     - name: updating pkms and updating nginx to latest
6       apt:
7         update_cache: true
8         name: nginx
9         state: latest
10    - name: copy index.html from host to target
11      copy:
12        src: ./index.html
13        dest: /var/www/html/index.html
14    - name: restart nginx
15      systemd:
16        name: nginx
17        state: restarted
```

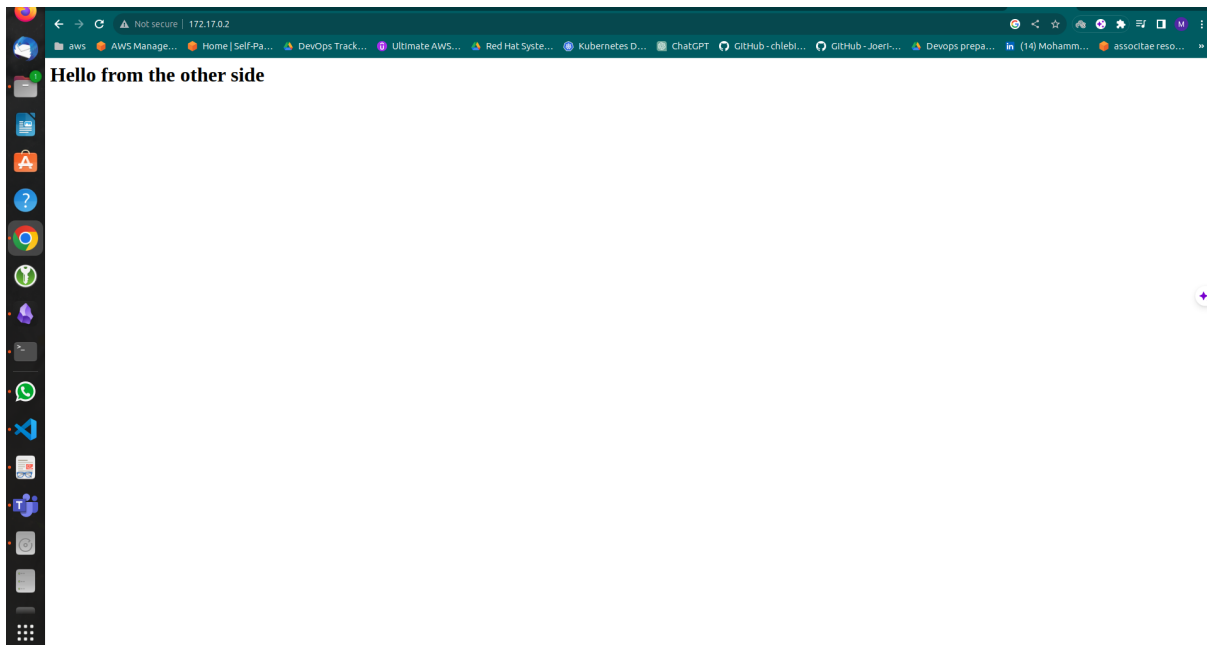
```
ok: [172.17.0.2]

TASK [updating pkms and updating nginx to latest] *****
ok: [172.17.0.2]

TASK [copy index.html from host to target] *****
ok: [172.17.0.2]

TASK [restart nginx] *****
changed: [172.17.0.2]

PLAY RECAP *****
172.17.0.2 : ok=4 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
```



Task3

- Yaml file

```
1 - name: update web servers
2   gather_facts: false
3   hosts: web-servers
4   tasks:
5     - name: updating pkms
6       tags:
7         - update
8       apt:
9         update_cache: true
10    - name: install nginx
11      tags:
12        - install
13      apt:
14        name: nginx
15        state: latest
```

- Running only update

```
● mohammed-osama@mohammed-osama-MS-7C52:/media/mohammed-osama/New Volume/iti/courses/Ansible/Day 25$ ansible-playbook simple-playbook.ansible.yaml --tags update
BECOME password:
[WARNING]: Invalid characters were found in group names but not replaced, use -vvvv to see details

PLAY [update web servers] *****

TASK [updating pkms] *****
ok: [172.17.0.2]

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

● mohammed-osama@mohammed-osama-MS-7C52:/media/mohammed-osama/New Volume/iti/courses/Ansible/Day 25$
```

- Adding copy task with always tag

```
1 - name: update web servers
2   gather_facts: false
3   hosts: web-servers
4   tasks:
5     - name: updating pkms
6       tags:
7         - update
8       apt:
9         update_cache: true
10    - name: install nginx
11      tags:
12        - install
13      apt:
14        name: nginx
15        state: latest
16    - name: copy index.html from host to target
17      copy:
18        src: ./index.html
19        dest: /var/www/html/index.html
20      tags:
21        - always
```

```
● mohammed-osama@mohammed-osama-MS-7C52:/media/mohammed-osama/New Volume/iti/courses/Ansible/Day 25$ ansible-playbook simple-playbook.ansible.yaml --tags update
BECOME password:
[WARNING]: Invalid characters were found in group names but not replaced, use -vvvv to see details

PLAY [update web servers] *****

TASK [updating pkms] *****
ok: [172.17.0.2]

TASK [copy index.html from host to target] *****
ok: [172.17.0.2]

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

● mohammed-osama@mohammed-osama-MS-7C52:/media/mohammed-osama/New Volume/iti/courses/Ansible/Day 25$
```

Task 4

- On the playbook level

```
A withvars ansible.yaml
1 - name: update web servers
2   gather_facts: false
3   hosts: web-servers
4   vars:
5     package_name: nginx
6     package_version: latest
7   tasks:
8     - name: install nginx
9       tags:
10        - install
11       apt:
12         name: "{{ package_name }}"
13         state: "{{ package_version }}"
```

- From inventory

```
inventory
1 [web-servers]
2 172.17.0.2
3
4 [web-servers:vars]
5 package_name=nginx
6 package_version=latest
7
```

- On command line level

Ansible-playbook withvars.ansible.yaml --extra-vars

"package_name=nginx package_version=latest"

- Use apt module

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
mohammed-osama@mohammed-osama-MS-7C52:/media/mohammed-osama/New Volume/iti/courses/Ansible/Day 2$ ansible-playbook withvars.ansible.yaml
BECOME password:
[WARNING]: Invalid characters were found in group names but not replaced, use -vvvv to see details

PLAY [update web servers] *****

TASK [install nginx] *****
ok: [172.17.0.2]

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

mohammed-osama@mohammed-osama-MS-7C52:/media/mohammed-osama/New Volume/iti/courses/Ansible/Day 2$
```

