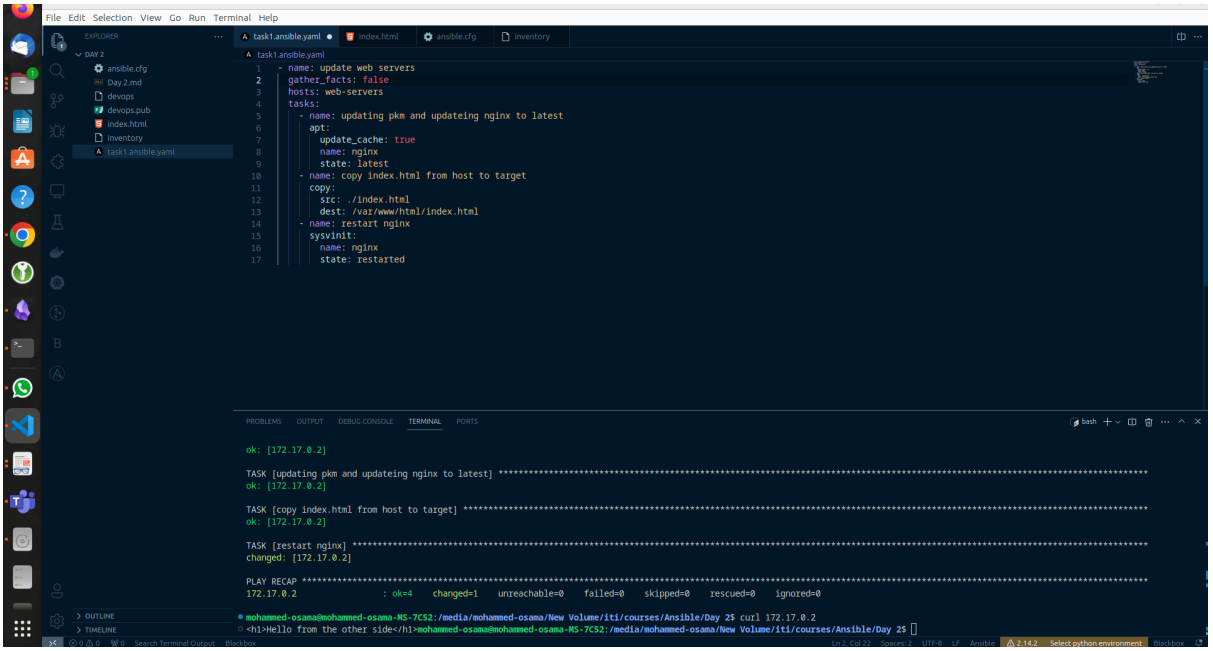
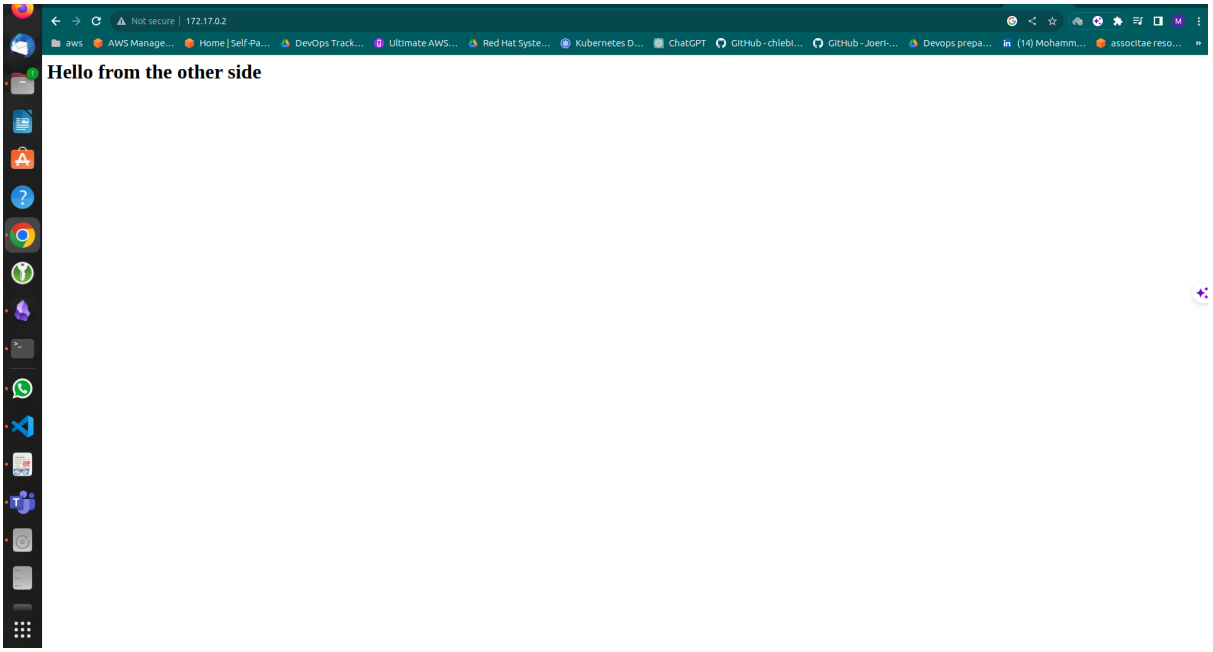
Ansible
Lab 2

Name: Muhammad Osama

Task1 and Task2:





Task3

- Yaml file

```yaml
- name: update web servers
  gather_facts: false
  hosts: web-servers
  tasks:
    - name: updating pkm
      tags:
        - update
      apt:
        update_cache: true
    - name: install nginx
      tags:
        - install
      apt:
        name: nginx
        state: latest
```

- Running only update

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

- Adding copy tast with always tag

simple-playbook.ansible.yaml

```yaml
- name: update web servers
  gather_facts: false
  hosts: web-servers
  tasks:
    - name: updating pkm
      tags:
        - update
      apt:
        update_cache: true
    - name: install nginx
      tags:
        - install
      apt:
        name: nginx
        state: latest
    - name: copy index.html from host to target
      copy:
        src: ./index.html
        dest: /var/www/html/index.html
      tags:
        - always
```

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

Task 4

- On the playbook level

withvars.ansible.yaml

```yaml
- name: update web servers
  gather_facts: false
  hosts: web-servers
  vars:
    package_name: nginx
    package_version: latest
  tasks:
    - name: install nginx
      tags:
        - install
      apt:
        name: "{{ package_name }}"
        state: "{{ package_version }}"
```

- From inventory

```
[web-servers]
172.17.0.2

[web-servers:vars]
package_name=nginx
package_version=latest

```

- 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                                                
```