Lab2:

Q1:tags

```
Play Dockerfile

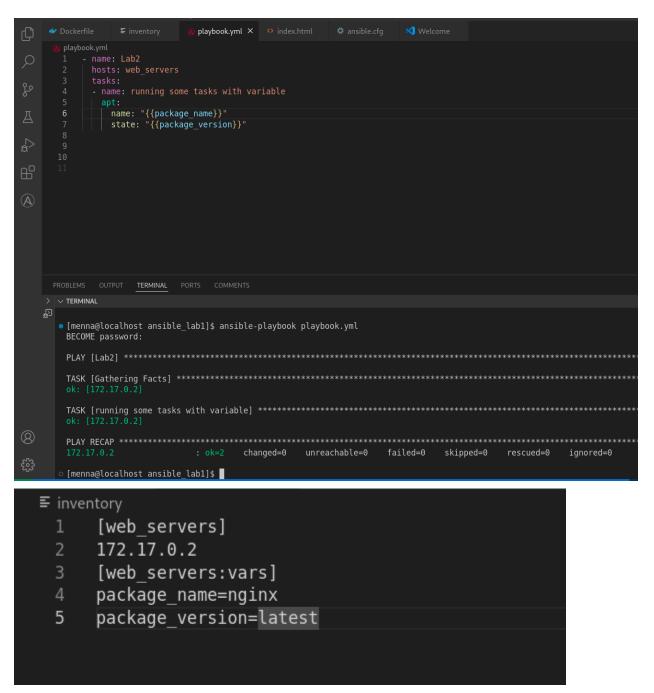
| Playbockyml | Playbockym
```

Another time using instal tag:

Q2. variables

using playbook

Using inventory level



Using command line level

```
| Table | Tabl
```

Q3.Loops:

Part1:

```
| Purple | P
```

Part2:

Q4:When:

I pulled a centos docker image and entered the container then ran some commands to solve the yml issue which are:

sudo sed -i 's/mirrorlist/#mirrorlist/g' /etc/yum.repos.d/CentOS-*

sudo sed -i 's|#baseurl=http://mirror.centos.org|baseurl=http://vault.centos.org|g'/etc/yum.repos.d/CentOS-*

Then i made yum update

Then i installed the openssh-server in my centos container and i made a user named:centosManouna with password :1234

And i used the already running docker container of ubuntu:

[menna@localhost ansible_lab1]\$ sudo docker container run -itd target 99de0eba91acef3dd3c9132cf6102d6860546b977476a41400739f861d66498c

[menna@localhost ansible_lab1]\$ sudo docker inspect 99de0eba91acef3dd3c9132cf6102d6860546b977476a41400739f861d66498c

```
"Gateway": "172.17.0.1",
"IPAddress": "172.17.0.3",
"IPPrefixlen": 16
```

Then i used the ssh-copy-id for both containers to access them using ssh only without the password

```
[menna@localhost ansible_lab1]$ ssh centosManouna@172.17.0.2
Last login: Mon Feb  3 15:18:15 2025 from gateway
[centosManouna@d6c7247255dd ~]$ exit
```

```
• [menna@localhost ansible_lab1]$ ssh manouna@172.17.0.3
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 5.14.0-554.el9.x86_64 x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/pro

This system has been minimized by removing packages and content that are not required on a system that users do not log into.

To restore this content, you can run the 'unminimize' command.
Last login: Mon Feb 3 15:29:42 2025 from 172.17.0.1
To run a command as administrator (user "root"), use "sudo <command>". See "man sudo_root" for details.

manouna@99de0eba9lac:~$ exit
```

```
1 [web_servers]
2 172.17.0.2
3 172.17.0.3
```

Playbook:

There is an unknown issue considering the centos container that i don't know how to solve:

```
inventory
[centos]
1  [centos]
2  172.17.0.2 ansible_ssh_user=centosManouna
3
4  [ubuntu]
5  172.17.0.3 ansible_ssh_user=manouna
```

```
ansible.cfg
1  [defaults]
2  inventory = ./inventory
3  private_key = /home/menna/.ssh/id_rsaManouna
4
5  [privilege_escalation]
6  become = true
7  become_ask_pass = true
8
9  [vars]
10  ansible_ssh_user_ubuntu = manouna
11  ansible_ssh_user_centos = centosManouna
12
```

Registers:

```
playbook.yml
     - name: playbook with conditions
      hosts: webservers
      tasks:
      - name: ubuntu task with conditions
         name: nginx
         state: latest
         update cache: yes
        register: install result
 11
      - name: result
 12
        debug:
         var: install result
 13
```

Question2:

```
playbook.yml

1 - name: playbook with conditions

2 hosts: webservers

3 tasks:

4 - name: ubuntu task with conditions

5 apt:

6 name: nginx

7 state: latest

8 update_cache: yes

9 register: install_result

10

11 - name: result

12 debug:

13 | var: install_result

14 - name: restart service

15 service:

16 name: nginx

17 state: restarted

18 use: service

19 when: install_result.changed or not install_result.failed
```