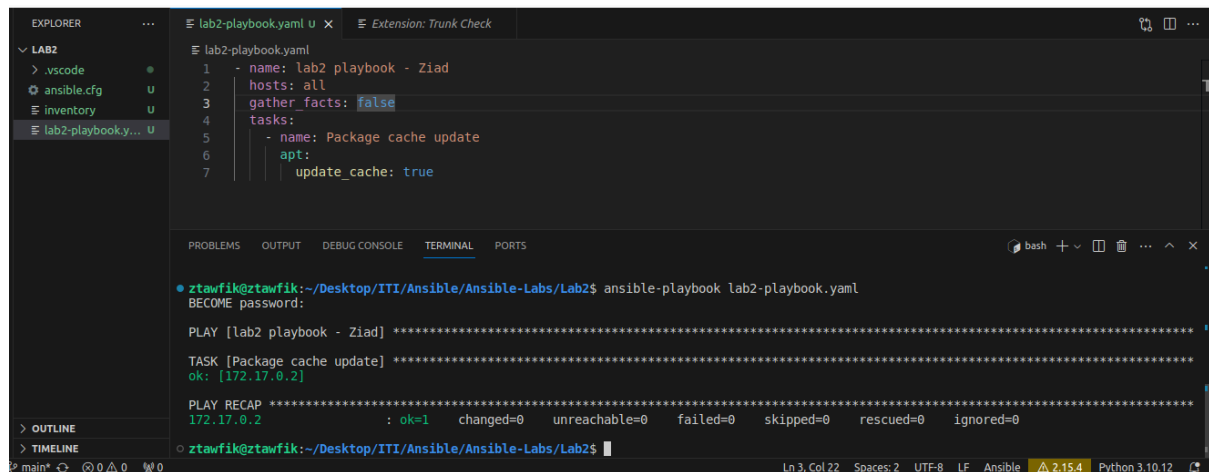


Name: Ziad Mohamed Tawfik

Track: DevOps SV

Course: Ansible - Lab2

Write your first playbook file
Stop gather_facts and update cache



```
lab2-playbook.yaml
1 - name: lab2 playbook - Ziad
2   hosts: all
3   gather_facts: false
4   tasks:
5     - name: Package cache update
6       apt:
7         update_cache: true

PLAY [lab2 playbook - Ziad] *****
TASK [Package cache update] *****
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

ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab2$
```

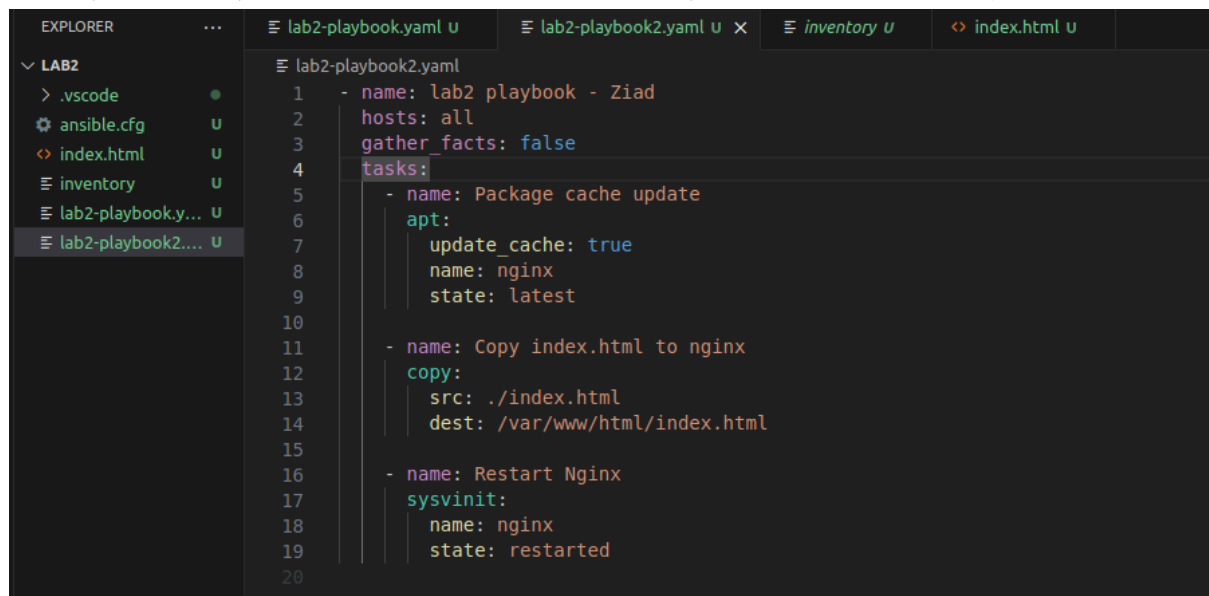
Update cache

Install latest nginx

Copy index.html from controller to host 1

Restart nginx service

Can you see your index.html file when you hit host 1 on port 80 ?

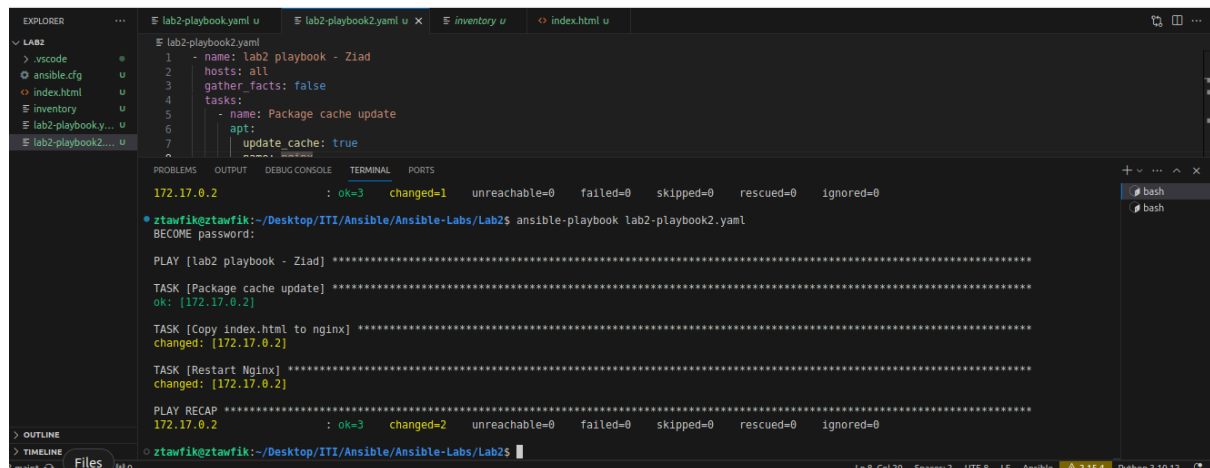


```
lab2-playbook2.yaml
1 - name: lab2 playbook - Ziad
2   hosts: all
3   gather_facts: false
4   tasks:
5     - name: Package cache update
6       apt:
7         update_cache: true
8       name: nginx
9       state: latest
10
11    - name: Copy index.html to nginx
12      copy:
13        src: ./index.html
14        dest: /var/www/html/index.html
15
16    - name: Restart Nginx
17      sysvinit:
18        name: nginx
19        state: restarted
20
```

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The screenshot shows the VS Code editor with a file explorer on the left containing files like .vscode, ansible.cfg, index.html, inventory, lab2-playbook.yml, and lab2-playbook2.yml. The main editor displays the content of lab2-playbook2.yml, which is an Ansible playbook for a host named 'Ziad'. The playbook tasks include gathering facts, updating the package cache, copying index.html to nginx, and restarting nginx. The terminal at the bottom shows the execution of this playbook from a terminal window on 172.17.0.2. The output indicates that the playbook ran successfully, with 3 OK, 1 changed, and 0 failed tasks. The tasks performed were 'Package cache update', 'Copy index.html to nginx', and 'Restart Nginx'.

```
lab2-playbook2.yml
1 - name: lab2 playbook - Ziad
2   hosts: all
3   gather_facts: false
4   tasks:
5     - name: Package cache update
6       apt:
7         update_cache: true

172.17.0.2 : ok=3 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

*ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab2$ ansible-playbook lab2-playbook2.yml
BECOME password:

PLAY [lab2 playbook - Ziad] *****

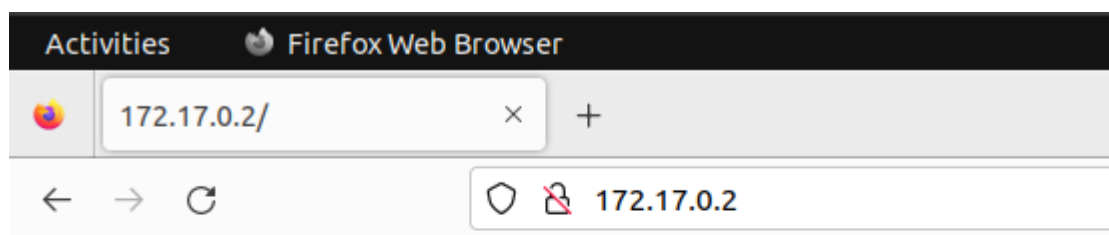
TASK [Package cache update] *****
ok: [172.17.0.2]

TASK [Copy index.html to nginx] *****
changed: [172.17.0.2]

TASK [Restart Nginx] *****
changed: [172.17.0.2]

PLAY RECAP *****
172.17.0.2 : ok=3 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab2$
```



Hello from ITI

Ziad Tawfik

Name: Zyad Mohamed Tawfik

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Course: Ansible - Lab2

Write simple playbook file

Add two tasks (apt update – apt install nginx)

Add tags to first task: update

Add tags to second task: install

Run only the (apt update) task

```
lab2-playbook3.yaml
1 ---
2 - name: lab2 playbook - Ziad
3   hosts: all
4   gather_facts: false
5   tasks:
6     - name: Update package cache
7       apt:
8         update_cache: yes
9       tags:
10        - update
11
12    - name: Install Nginx
13      apt:
14        name: nginx
15        state: latest
16      tags:
17        - install
18
```

```
lab2-playbook3.yaml
1 ---
2 - name: lab2 playbook - Ziad
3   hosts: all
4   gather_facts: false

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
● ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab2$ ansible-playbook lab2-playbook3.yaml --tags update
BECOME password:

PLAY [lab2 playbook - Ziad] *****

TASK [Update package cache] *****
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

● ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab2$ ansible-playbook lab2-playbook3.yaml --tags install
BECOME password:

PLAY [lab2 playbook - Ziad] *****

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

● ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab2$
```

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Course: Ansible - Lab2

Add one task with “tags: always” and run the previous command again

```
lab2-playbook3.yaml
1  ---
2  - name: lab2 playbook - Ziad
3    hosts: all
4    gather_facts: false
5    tasks:
6      - name: Update package cache
7        apt:
8          update_cache: yes
9        tags:
10         - update
11
12     - name: Install Nginx
13       apt:
14         name: nginx
15         state: latest
16       tags:
17         - install
18
19     - name: This task always runs
20       debug:
21         msg: "This task has 'tags: always' and will always run."
22       tags:
23         - always
24
```

```
lab2-playbook3.yaml
17     - install
18
19     - name: Print message
20       debug:
21         msg: "This task will always run"
22       tags:
23         - always
24
25
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab2$ ansible-playbook lab2-playbook3.yaml --tags install
BECOME password:

PLAY [lab2 playbook - Ziad] *****

TASK [Install Nginx] *****
ok: [172.17.0.2]

TASK [Print message] *****
ok: [172.17.0.2] => {
  "msg": "This task will always run"
}

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

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Define these variables (package_name, package_version) and Use apt module with the package name and version from your variables

on playbook level

```
lab2-playbook-task4.yaml
1  - name: lab2 playbook - Ziad
2    hosts: all
3    gather_facts: false
4
5    vars:
6      package: nginx
7      version: latest
8
9    tasks:
10     - name: Install Nginx
11       apt:
12         name: "{{package}}"
13         state: "{{version}}"
14
15
❯ ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab2$ ansible-playbook lab2-playbook-task4.yaml
BECOME password:

PLAY [lab2 playbook - Ziad] *****

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
```

on inventory level

```
inventory
1  [webserver]
2  172.17.0.2
3
4  [all:vars]
5  package=nginx
6  version=latest
```

on command line level

```
❯ ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab2$ ansible-playbook lab2-playbook-task4.yaml --extra-vars "package=nginx version=latest"
BECOME password:

PLAY [lab2 playbook - Ziad] *****

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

❯ ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab2$
```