

Amira Tarek Ibrahim (lab2 ansible)

task 1

```
my-playbook.yml - lab1 - Visual Studio Code
File Edit Selection View Go Run Terminal Help

EXPLORER
  LAB1
    ansible.cfg
    inventory
    ! my-playbook.yml

! my-playbook.yml
1 - name: play1
2   gather_facts: false
3   hosts: web_servers
4   tasks:
5     - name: test
6       apt:
7         update_cache: true
8

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
● amira@amira-Lenovo-IdeaPad-Z510:~/iti_devops/ansible/lab1$ ansible-playbook my-playbook.yml
BECOME password:

PLAY [play1] *****

TASK [test] *****
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

● amira@amira-Lenovo-IdeaPad-Z510:~/iti_devops/ansible/lab1$
```

task 2

```
my-playbook.yml - lab1 - Visual Studio Code
File Edit Selection View Go Run Terminal Help

EXPLORER
  LAB1
    ansible.cfg
    index.html
    inventory
    ! my-playbook.yml

! my-playbook.yml
5 - name: update
6   apt:
7     update_cache: true
8     name: nginx
9     state: latest
10
11 - name: copy file
12   copy:
13     src: ./index.html
14     dest: /var/www/html/index.html
15
16 - name: restart web server
17   sysvinit:
18     name: nginx
19     state: restarted

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PLAY [play1] *****

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

TASK [copy file] *****
changed: [172.17.0.2]

TASK [restart web server] *****
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

● amira@amira-Lenovo-IdeaPad-Z510:~/iti_devops/ansible/lab1$ curl 172.17.0.2
<h1> Hello Amira from Ansible </h1>
● amira@amira-Lenovo-IdeaPad-Z510:~/iti_devops/ansible/lab1$
```

hh

task 3

```
my-playbook2.yml - lab2 - Visual Studio Code
```

File Edit Selection View Go Run Terminal Help

EXPLORER

- LAB2
 - ansible.cfg
 - index.html
 - inventory
 - my-playbook.yml
 - my-playbook2.yml

my-playbook2.yml

```
1  - name: update nginx
2  hosts: web_servers
3  tasks:
4    - name: update
5      tags: update
6      apt:
7        update_cache: true
8        name: nginx
9        state: latest
10
11    - name: installation
12      tags: install
13      apt:
14        name: nginx
15        state: latest
16
17
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

bash

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

● amira@amira-Lenovo-IdeaPad-Z510:~/iti_devops/ansible/lab2$ ansible-playbook my-playbook2.yml --tags update
BECOME password:

PLAY [play1] *****

TASK [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

○ amira@amira-Lenovo-IdeaPad-Z510:~/iti_devops/ansible/lab2$
```

Ln 13, Col 19 Spaces: 2 UTF-8 LF YAML

```
my-playbook2.yml - lab2 - Visual Studio Code
```

File Edit Selection View Go Run Terminal Help

EXPLORER

- LAB2
 - ansible.cfg
 - index.html
 - inventory
 - my-playbook.yml
 - my-playbook2.yml

my-playbook2.yml

```
1  - name: update nginx
2  hosts: web_servers
3  tasks:
4    - name: update
5      tags: update
6      apt:
7        update_cache: true
8        name: nginx
9        state: latest
10
11    - name: installation
12      tags: install
13      apt:
14        name: nginx
15        state: latest
16
17    - name: restart web server
18      tags: always
19      sysvinit:
20
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

bash

```
● amira@amira-Lenovo-IdeaPad-Z510:~/iti_devops/ansible/lab2$ ansible-playbook my-playbook2.yml --tags update
BECOME password:

PLAY [play1] *****

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

TASK [restart web server] *****
changed: [172.17.0.2]

PLAY RECAP *****
172.17.0.2 : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

○ amira@amira-Lenovo-IdeaPad-Z510:~/iti_devops/ansible/lab2$
```

Ln 19, Col 18 Spaces: 2 UTF-8 LF YAML

task 4

The image shows a Visual Studio Code window titled 'var.yml - lab2 - Visual Studio Code'. The Explorer sidebar on the left lists files: 'LAB2' (expanded), 'ansible.cfg', 'index.html', 'inventory', 'my-playbook.yml', and 'var.yml'. The main editor displays the content of 'var.yml':

```
! var.yml
1 - name: play1
2   gather_facts: false
3   hosts: web_servers
4
5   vars:
6     package_name: nginx
7     package_version: latest
8
9   tasks:
10
11     - name: update
12       apt:
13         update_cache: true
14         name: "{{ package_name }}"
15         state: "{{ package_version }}"
```

The Terminal at the bottom shows the execution of the playbook:

```
amira@amira-Lenovo-IdeaPad-Z510:~/iti_devops/ansible/lab2$ ansible-playbook var.yml
BECOME password:

PLAY [play1] *****

TASK [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

amira@amira-Lenovo-IdeaPad-Z510:~/iti_devops/ansible/lab2$ ansible-playbook var.yml -e "package_name=nginx package_version=latest"
```

The screenshot displays the Visual Studio Code interface with the title bar "var.yml - lab2 - Visual Studio Code". The interface is divided into several panels:

- EXPLORER:** Shows the file structure of the "LAB2" directory, including `ansible.cfg`, `index.html`, `inventory`, `my-playbook.yml`, and `var.yml`. The `var.yml` file is selected.
- EDITOR:** Displays the content of `var.yml`, which defines an Ansible play named `play1`. The play includes a `gather_facts` task set to `false` and a `hosts` list containing `web_servers`. It also defines variables `package_name` (nginx) and `package_version` (latest), and a task named `update` that uses the `apt` module to install the package.
- TERMINAL:** Shows the output of the command `ansible-playbook var.yml -e "package_name=nginx"`. The output indicates that the play `play1` was successful, and the `update` task was executed on the host `172.17.0.2`, resulting in the package being installed.

The terminal output is as follows:

```
amira@amira-Lenovo-IdeaPad-Z510:~/iti_devops/ansible/lab2$ ansible-playbook var.yml -e "package_name=nginx"
BECOME password:

PLAY [play1] *************************************************************************************************************************************

TASK [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

amira@amira-Lenovo-IdeaPad-Z510:~/iti_devops/ansible/lab2$
```