# Lab 5 Ansible Ramaj Alaa

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# **Passant Hamdy**

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1- Installing ansible on the controller VM

sudo apt install software-properties-common sudo add-apt-repository --yes --update ppa:ansible/ansible sudo apt install ansible

2-Writing yml file to configure the other VM:

nano configuration.yml:

---

#### # Task 1 rename the host

## # Task 2 installing apache2

## # Task 3 create a virtual host file in apache2

```
- name: create virtual host file
    ansible.builtin.template:
```

#### # Task 4 install WordPress with all dependencies

```
name: Install dependencies for wordpress
       apt:
        name={{ item }}
        state=present
         - python3-pip
        - mariadb-server
         - php
         - php-mysql
      - name: Install Required pip modules
       pip:
        name:

    PyMySQL

        state: present
         executable: pip3
      - name: Ensure MariaDB is running (and enable it at boot)
        service: name=mariadb state=started enabled=yes
      - name: Copy ~/.my.cnf to nodes
        copy: src=~/.my.cnf dest=/root/.my.cnf
      - name: Create MariaDB user
        community.mysql.mysql_user: name=wpuser password=1234 state=present
login_user=root login_password=1234 priv=*.*:ALL
      - name: Create MariaDB database
       mysql_db: name=wpdatabase state=present
      - name: Download WordPress
        get url: url=https://www.wordpress.org/latest.tar.gz
dest=/var/www/html/wordpress.tar.gz validate_certs=no
      - name: Extract WordPress
        command: "tar xzf /var/www/html/wordpress.tar.gz -C /var/www/html"
```

```
    name: copy configuration file of wordpress
        copy: src=~/wp-config.php dest=/var/www/html/wordpress/wp-config.php
mode=0644
    handlers:
        - name: restart apache2
        service: name=apache2 state=restarted
```

# # Writing host file to hold the variables of yml file:

#### hosts.txt

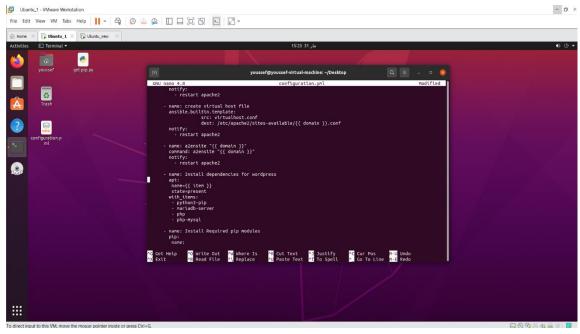
client1 ansible\_host=192.168.224.135 ansible\_user=youssef ansible\_password=123 ansible\_become\_password=123 hostname=youssef domain= ahmed.com

# # Writing Virtual host file:

```
<VirtualHost *:80>
    ServerName {{ domain }}
    ServerAlias {{ domain }}
    DocumentRoot /var/ahmed.com/{{ domain }}
</VirtualHost>

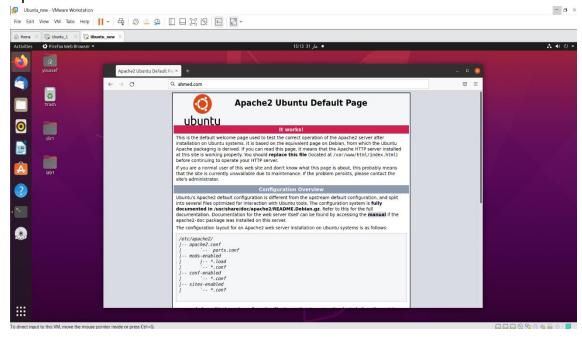
<Directory /var/websites/{{ domain }}>
    AllowOverride all
    Require all granted
</Directory>
```

### →screen form control VM



# →screen from target VM:

#### Apache2 with virtual host ahmed.com:



#### Wordpress:

