COMMANDS USED AND PICTURED,VIDEOS
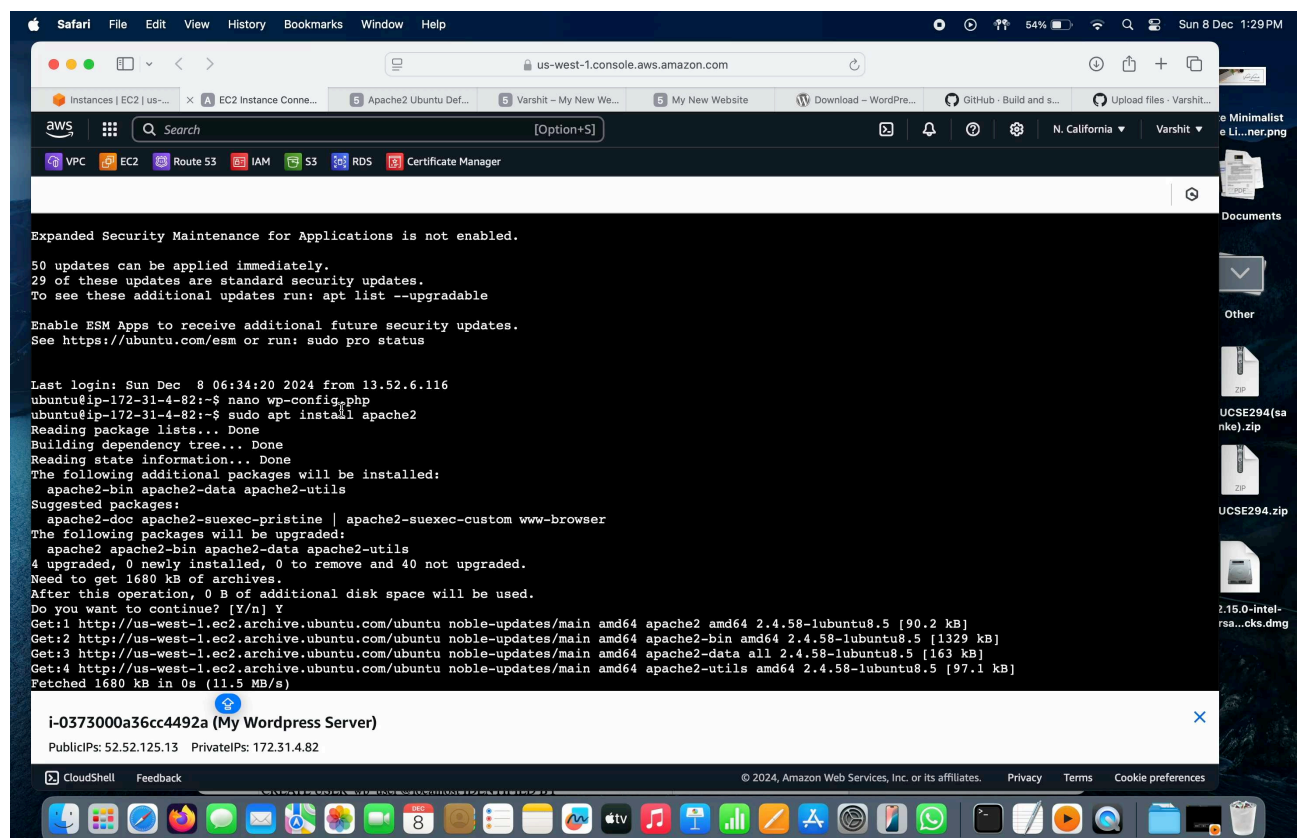
1. Install Apache server on Ubuntu : sudo apt install apache2

2.Install php runtime and php mysql connector: sudo apt install php libapache2-mod-php php-mysql

3. Install MySQL server : sudo apt install mysql-server
4. Login to MySQL server : sudo mysql -u root
5. Change authentication plugin to mysql_native_password (change the password to something strong) : ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password by 'Testpassword@123';
6. Create a new database user for wordpress (change the password to something strong) :
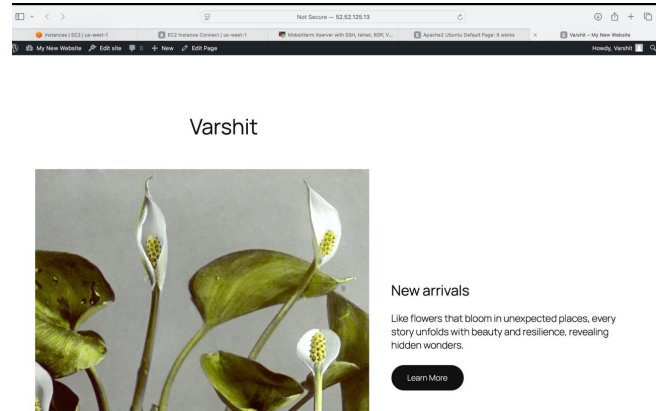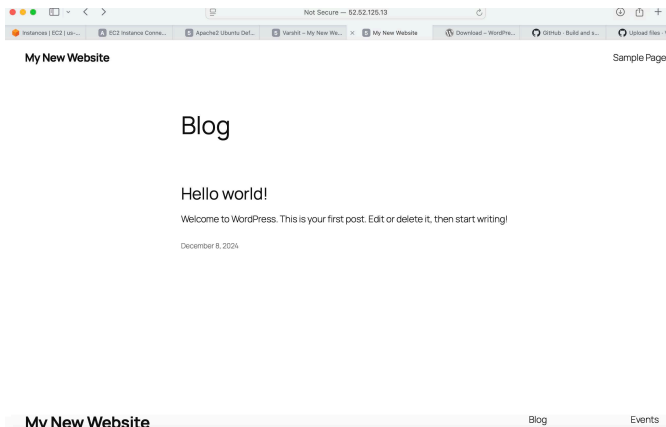

```
CREATE USER 'wp_user'@localhost IDENTIFIED BY
'Testpassword@123';
```
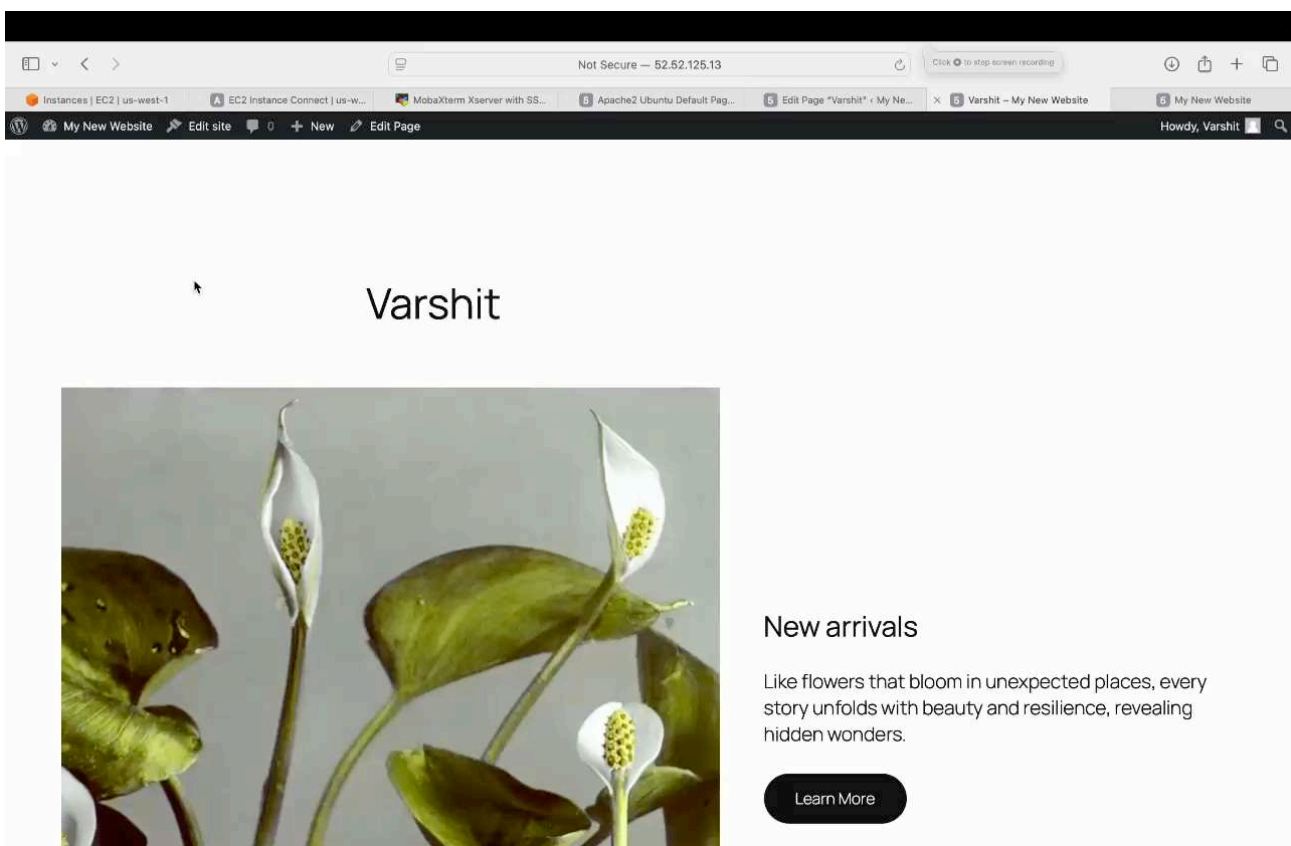
7. Create a database for wordpress : CREATE DATABASE wp;
8. Grant all privilges on the database 'wp' to the newly created user : GRANT ALL PRIVILEGES ON wp.* TO 'wp_user'@localhost;
9. Download wordpress : cd /tmp , wget https://wordpress.org/latest.tar.gz
10. Unzip : tar -xvf latest.tar.gz
11. Move wordpress folder to apache document root : sudo mv wordpress/ /var/www/html

THIS IS THE EDN>>>>!!!

Documentation.

1. EC2 Instances Setup

- **Instance 1**: WordPress Server

  - **Instance Type**: t2.micro
  - **AMI**: Ubuntu (e.g., Ubuntu Server 20.04 LTS)
  - **Security Group Rules**:
    - Allow HTTP (Port 80) from anywhere (0.0.0.0/0).
    - Allow SSH (Port 22) from your IP.
    - Allow access to MySQL (Port 3306) from the second instance's private IP.
- **Instance 2**: MySQL Server

  - **Instance Type**: t2.micro
  - **AMI**: Ubuntu (e.g., Ubuntu Server 20.04 LTS)
  - **Security Group Rules**:
    - Allow MySQL (Port 3306) from WordPress instance's private IP.
    - Allow SSH (Port 22) from your IP.

2. Installing Prerequisites

On WordPress Instance

1. **Install Apache Web Server**bash
   Copy code


   ```
   sudo apt update
   ```
2. ```
   sudo apt install apache2
   ```
3.

4. **Install PHP and MySQL Connector for PHP**bash
   Copy code


   ```
   sudo apt install php libapache2-mod-php php-mysql
   ```
5.

On MySQL Instance

1. **Install MySQL Server**
   bash
   Copy code

   ```
   sudo apt update
   ```

2. `sudo apt install mysql-server`
3.

4. **Configure MySQL**
   bash
   Copy code

   ```
   sudo mysql -u root
   ```

5. `ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Testpassword@123';`
6. `CREATE DATABASE wp;`
7. `CREATE USER 'wp_user'@'%' IDENTIFIED BY 'Testpassword@123';`
8. `GRANT ALL PRIVILEGES ON wp.* TO 'wp_user'@'%';`
9. `FLUSH PRIVILEGES;`
10.

11. **Edit MySQL Configuration to Allow Remote Access**

    ○ Open the MySQL configuration file: bash
       Copy code

       ```
       sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf
       ```
    ○

    ○ Replace `bind-address` with `0.0.0.0` to allow connections from other instances.
    ○ Restart MySQL: bash
       Copy code

       ```
       sudo systemctl restart mysql
       ```

○

3. Deploy WordPress

1. **Download and Extract WordPress**
   bash
   Copy code

   ```
   cd /tmp
   ```

2. ```
   wget https://wordpress.org/latest.tar.gz
   ```
3. ```
   tar -xvf latest.tar.gz
   ```
4. ```
   sudo mv wordpress /var/www/html
   ```
5.

6. **Set Permissions**
   bash
   Copy code

   ```
   sudo chown -R www-data:www-data /var/www/html/wordpress
   ```

7. ```
   sudo chmod -R 755 /var/www/html/wordpress
   ```
8.

9. **Configure WordPress**

   ○ Rename the sample configuration file:bash
   Copy code

   ```
   cd /var/www/html/wordpress
   ```
   ○ ```
   cp wp-config-sample.php wp-config.php
   ```
   ○

   ○ Edit wp-config.php:bash
   Copy code

   ```
   nano wp-config.php
   ```

- ○

    Update the database details as:php
    Copy code

    ```php
    define('DB_NAME', 'wp');
    ```
  - ○ `define('DB_USER', 'wp_user');`
  - ○ `define('DB_PASSWORD', 'Testpassword@123');`
  - ○ `define('DB_HOST', '<MySQL Instance Private IP>');`
  - ○

10. **Restart Apache**
    bash
    Copy code

    ```bash
    sudo systemctl restart apache2
    ```

11.

4. Access WordPress

- Open a browser and go to the WordPress instance's public IP.
- Complete the setup wizard to configure your website.