

ICT171 assignment 2- Cloud Server Project

Student name: **Farida Abdul**

Student no: **35435951**

IP address: **3.249.120.238**

Site Domain Name: <https://glowbeautyuae.it.com>

GitHub link: <https://github.com/farida533/GlowBeauty-ICT171>

Video link: <https://drive.google.com/file/d/1YrTHY-G6SIT125CKsAF6fwA--vwZf-qL/view?usp=sharing>

Cloud Server Project – WordPress on Amazon EC2 (Ubuntu + PowerShell)

1. Setting Up Web Server (Apache on Ubuntu EC2)

- Launched an **EC2 Ubuntu** instance on AWS.
- Connected via **PowerShell** using **SSH**:

```
ssh -i "your-key.pem" ubuntu@your-ec2-ip
```

- Installed Apache Web Server:

```
sudo apt update
```

```
sudo apt install apache2 -y
```

- Verified Apache is running:

```
sudo systemctl status apache2
```

```
[ec2-user@ip-172-31-10-7 ~]$ sudo dnf update -y
Amazon Linux 2023 Kernel Livepatch repository
Amazon Linux 2023 Kernel Livepatch repository

Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-10-7 ~]$ sudo dnf install httpd -y
```

2. EDIT HTML FILE:

```
sudo nano index.html
```

```
[ec2-user@ip-172-31-10-7 ~]$ cd /var/www/html
[ec2-user@ip-172-31-10-7 html]$
```

3. Linking with DNS Entry (Namecheap)

- Logged into Namecheap > Domain > Advanced DNS.
- Added an A Record:

- Type: A
- Host: @
- Value: 13.203.194.128
- TTL: Automatic
- Domain glowbeautyuae.it.com now points to the EC2 server.

```
[ec2-user@ip-172-31-10-7 ~]$ sudo dnf update -y
Amazon Linux 2023 Kernel Livepatch repository
Amazon Linux 2023 Kernel Livepatch repository

Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-10-7 ~]$ sudo dnf install httpd -y
```

4. SSL/HTTPS Setup:

- Installed Certbot,

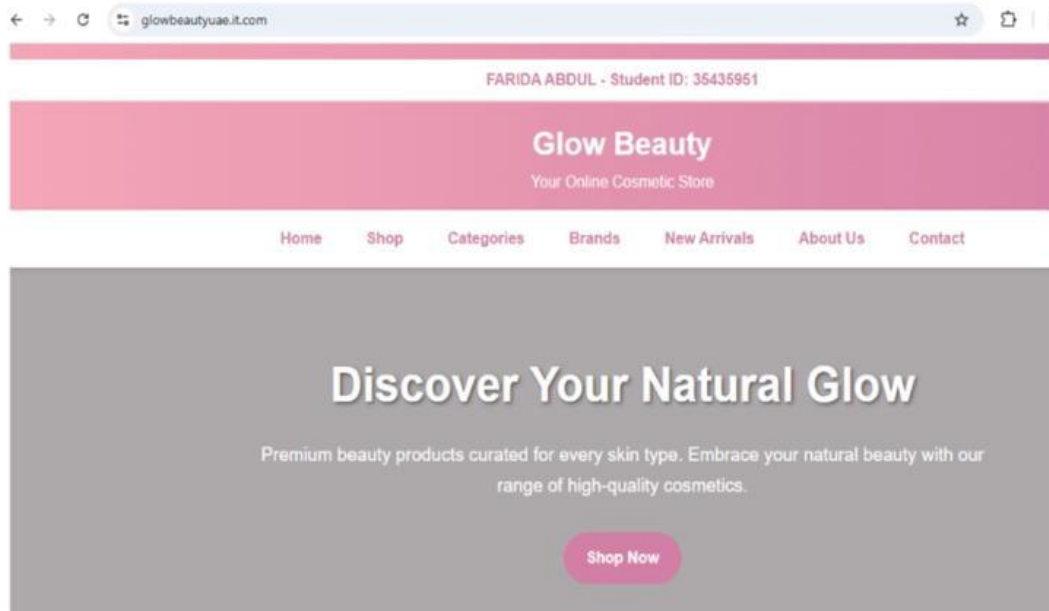
```
sudo apt install certbot python3-certbot-apache -y
```

- Ran Certbot:

```
sudo certbot --apache
```

- Selected domain + enabled redirection to HTTPS.
- SSL certificate auto-renews with system

```
[ec2-user@ip-172-31-10-7 html]$ sudo dnf install -y epel-release
sudo dnf install -y certbot python3-certbot-apache
```



SCREENSHOTS:

```
-----
2/15/2025 3:33 PM Custom Office Templates
3/1/2025 2:59 PM Farida
3/1/2025 10:25 AM 10221 35435951.html
3/1/2025 11:30 AM 12016 Farida(35435951).html

PS C:\Users\s\Documents> cd Farida
PS C:\Users\s\Documents\Farida> ssh -i "c:\171-pairkey.pem" ubuntu@ec2-52-66-152-128.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-52-66-152-128.ap-south-1.compute.amazonaws.com (52.66.152.128)' can't be established.
ECDSA key fingerprint is SHA256:GhwjKia7lNQlFNSlHrAMPZSi9vYne/GYyIVJ7qK4.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-52-66-152-128.ap-south-1.compute.amazonaws.com,52.66.152.128' (ECDSA) to the list of
known hosts.
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1024-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management:   https://landscape.canonical.com
 * Support:      https://ubuntu.com/pro

System information as of Wed Apr  9 22:03:43 UTC 2025

System load: 0.0 Processes: 104
Usage of /: 25.0% of 6.71GB Users logged in: 0
Memory usage: 10% IPv4 address for enX0: 172.31.11.1
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Disable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
```

```
Building dependency tree... Done
Reading state information... Done
0 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following upgrades have been deferred due to phasing:
  pci.ids python3-software-properties software-properties-common
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
ubuntu@ip-172-31-11-1: $ sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.58-1ubuntu8.6).
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
ubuntu@ip-172-31-11-1: $ sudo systemctl start apache2
ubuntu@ip-172-31-11-1: $ sudo apt install mysql-server
```

