

ICT171 assignment 2- Cloud Server Project

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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:;

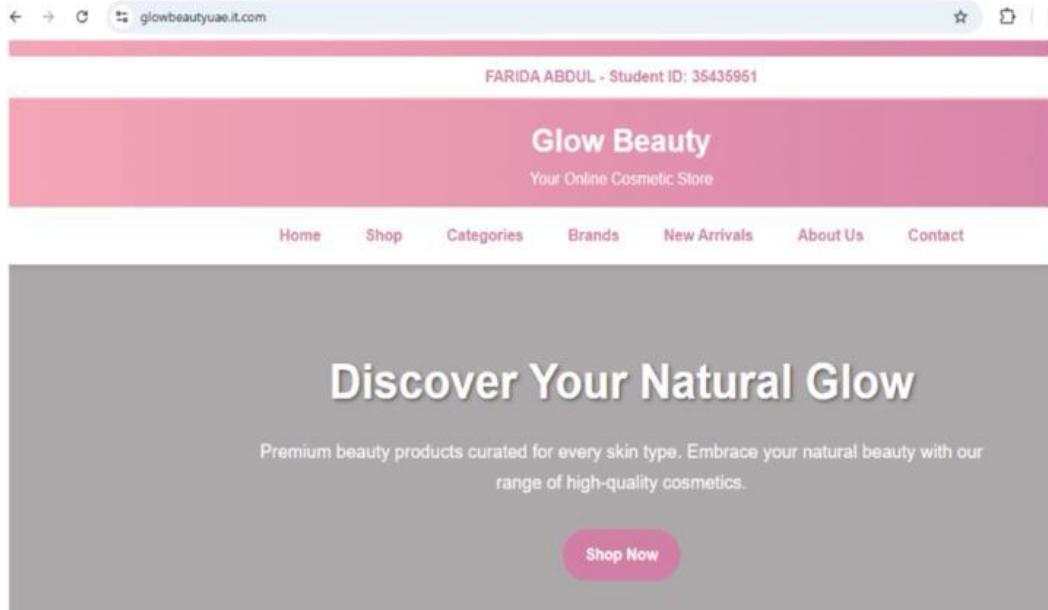
```
sudo apt install certbot python3-certbot-apache -y
```

- 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
---- 4/9/2025 2:59 PM      Farida
---- 3/1/2025 10:25 AM     19221 35435951.html
---- 3/1/2025 11:30 AM     128016 Farida(35435951).html

$ C:\Users\sl\Documents> cd Farida
$ C:\Users\sl\Documents\Farida> ssh -L 12345:localhost:port ubuntu@ec2-52-66-152-128.ap-south-1.compute.amazonaws.com
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.
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:JU8mTfWzHtAMFP551zqzme/dvV3tgk4.
Are you sure you want to continue connecting (yes/no)? 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-musnix 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: 15%
Swap usage:  0%

Expanded Security Maintenance for Applications is not enabled.

# updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo apt 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
8 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
```

