ICT 171

Project Proposal

ASSIGNMENT 2

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GLOBAL IP ADDRESS: 51.21.16.127
DNS: https://unilife.blog/

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SERVER SETUP DOCUMENTATOIN

1. Change the directory to Downloads.

```
PS C:\Users\Ahaliya> cd C:\Users\Ahaliya\Downloads
```

2. Connecting to the EC2 instance vis SSH

```
PS C:\Users\Ahaliya\Downloads> ssh -i F1.pem ubuntu@51.21.16.127
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1024-aws x86_64)
```

3. Update System Packages

```
ubuntu@ip-172-31-37-46:~$ sudo apt update && sudo apt upgrade -y
Hit:1 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
```

4. Installing Apache2 and git

```
ubuntu@ip-172-31-37-46:~$ sudo apt install apache2 git -y
```

5. Check UFW status

```
ubuntu@ip-172-31-37-46:~$ sudo ufw status
Status: active

To                         Action      From
--                         ------      ----
22                         ALLOW       Anywhere
22/tcp                     ALLOW       Anywhere
80/tcp                     ALLOW       Anywhere
443/tcp                    ALLOW       Anywhere
22 (v6)                    ALLOW       Anywhere (v6)
22/tcp (v6)                ALLOW       Anywhere (v6)
80/tcp (v6)                ALLOW       Anywhere (v6)
443/tcp (v6)               ALLOW       Anywhere (v6)
```

6. Enable UFW firewall

```
ubuntu@ip-172-31-37-46:~$ sudo ufw enable
```

7. Allow necessary ports

```
ubuntu@ip-172-31-37-46:~$ sudo ufw allow 22/tcp
sudo ufw allow 80/tcp
sudo ufw allow 443/tcp
```

8. Clone GitHub Repository

```
ubuntu@ip-172-31-37-46:~$ git clone https://github.com/ABCDEFGHIJKLMNOPQRSTUVWXYZ-171/Assignment2.git
```

9. Set the appropriate permissions

```
ubuntu@ip-172-31-37-46:~$ sudo chown -R www-data:www-data /var/www/html
ubuntu@ip-172-31-37-46:~$ sudo chown -R ubuntu:ubuntu /var/www/html/Assignment2/.git
ubuntu@ip-172-31-37-46:~$ git config --global --add safe.directory /var/www/html/Assignment2
```

10. Copy website files to Apache Directory

```
ubuntu@ip-172-31-37-46:~$ sudo cp -r Assignment2/* /var/www/html/
```

11. Change directory

```
ubuntu@ip-172-31-37-46:~$ cd /var/www/html/Assignment2
```

12. Pull latest changes from GitHub

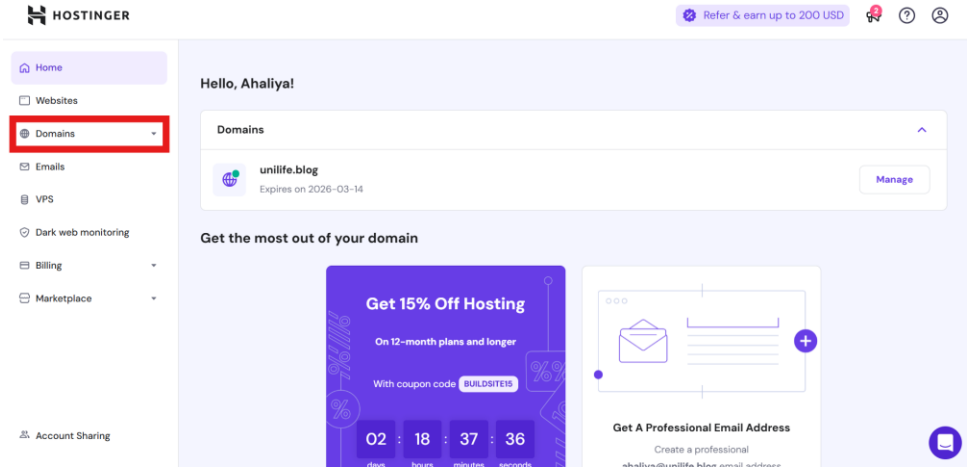
```
ubuntu@ip-172-31-37-46:/var/www/html/Assignment2$ git pull origin main
```

13. Restart Apache Web Server

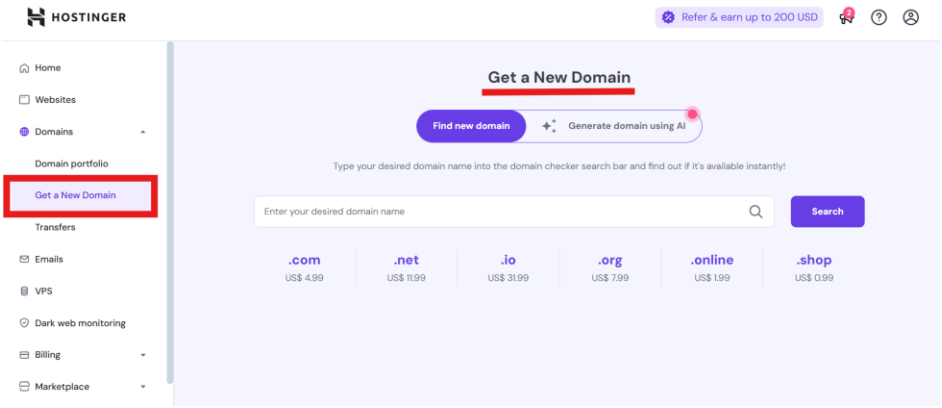
```
ubuntu@ip-172-31-37-46:/var/www/html/Assignment2$ sudo systemctl restart apache2
```

SETTING UP DOMAIN NAME WITH HOSTINGER

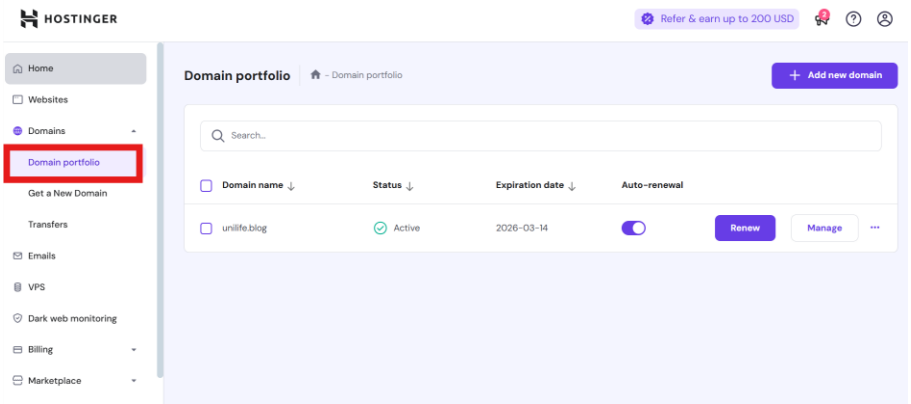
1. Login to your Hostinger account
2. Navigate to the “Domains” section



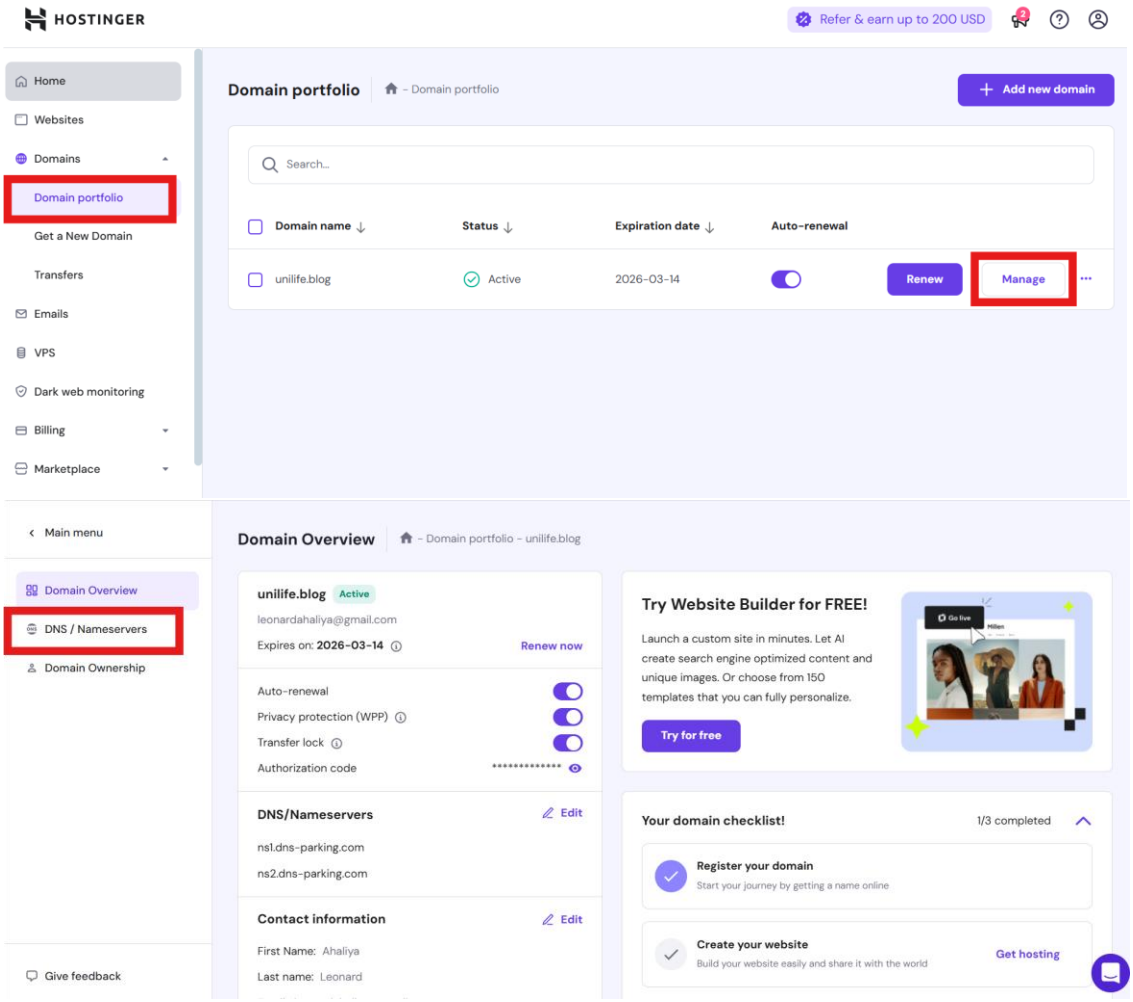
3. Add your domain to Hostinger Account
   a. If you don’t already own a domain, you can purchase it directly through Hostinger



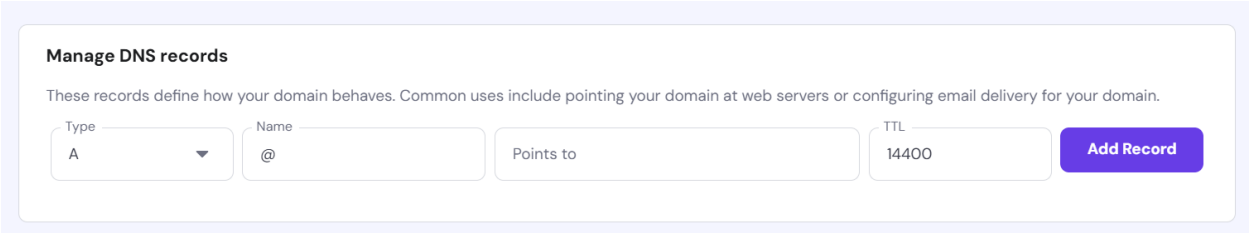
   b. If you already own a domain, you can skip this step and move on to connecting it to Hostinger.



4. Update DNS setting for your domain



5. Point your domain name to your website and your GitHub repository



Add records according to the picture below

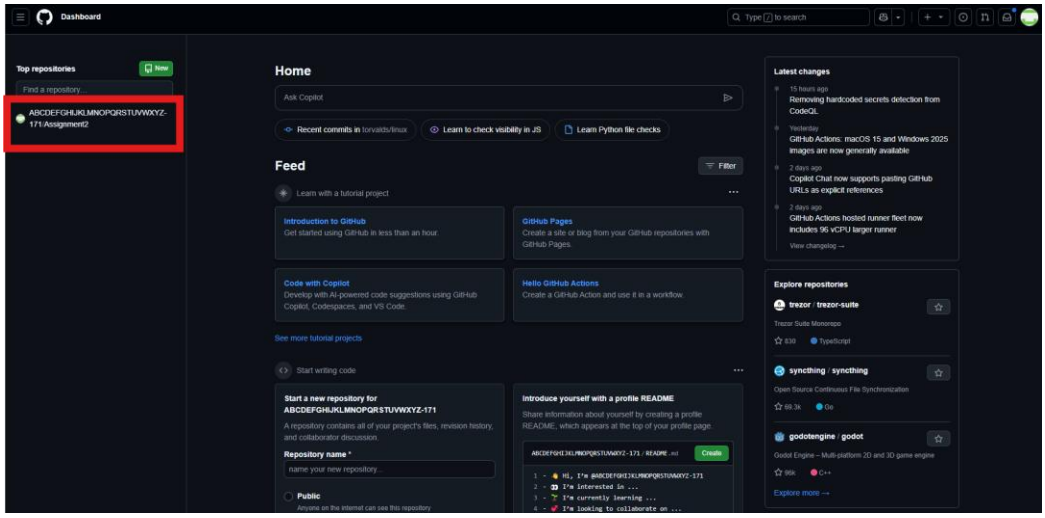
6.

Search

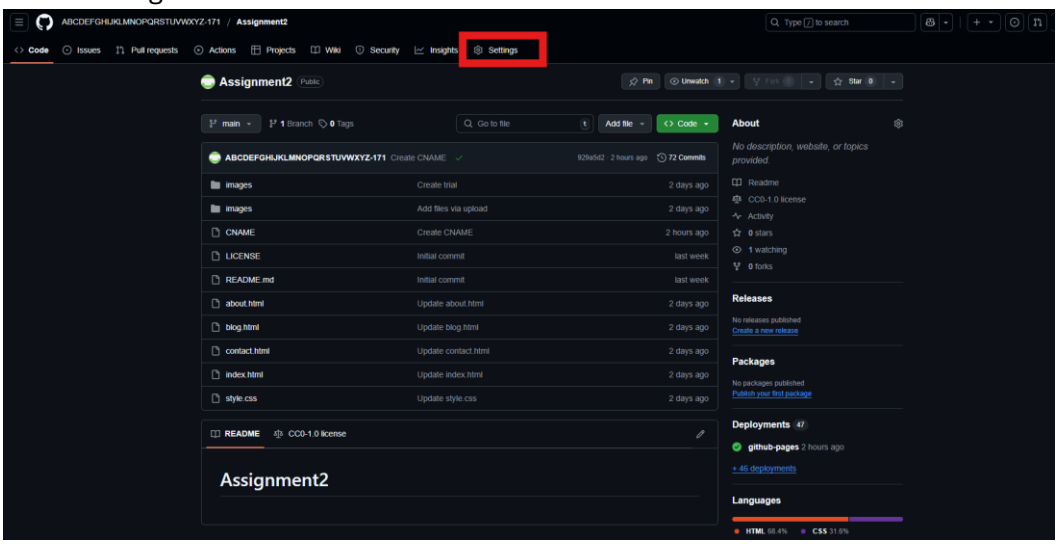
Type	Name	Priority	Content	TTL		
CNAME	www	0	ABCDEFGHIJKLMNOPQRSTUVWXYZ-171.github.io	300	Delete	Edit
A	@	0	185.199.108.153	300	Delete	Edit
A	@	0	185.199.111.153	300	Delete	Edit
A	@	0	185.199.110.153	300	Delete	Edit
A	@	0	185.199.109.153	300	Delete	Edit

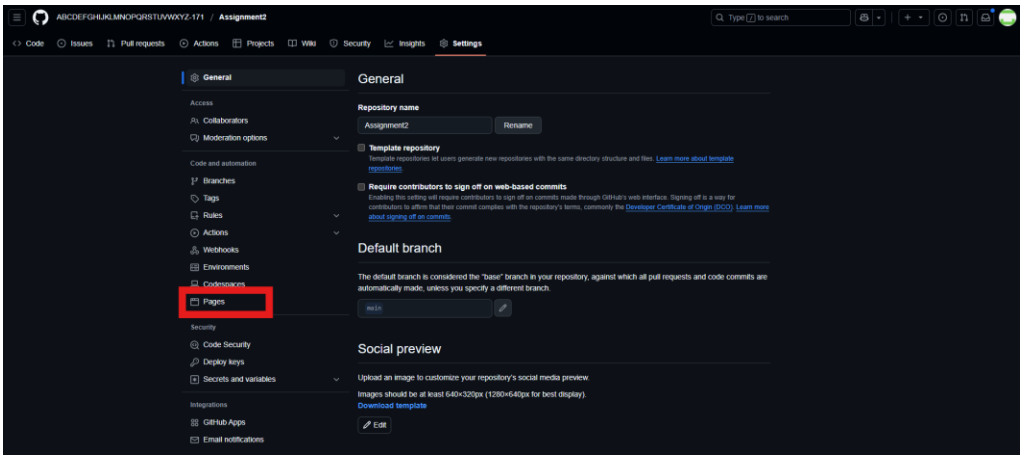
SSL certification setup

1. Go to your GitHub repository

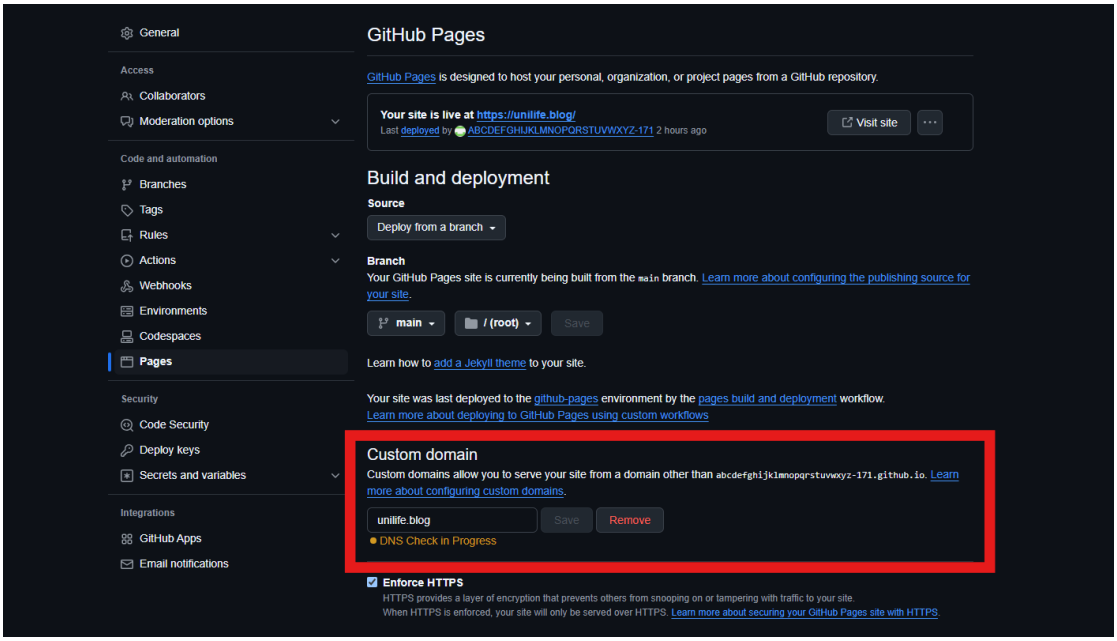


2. Click Settings

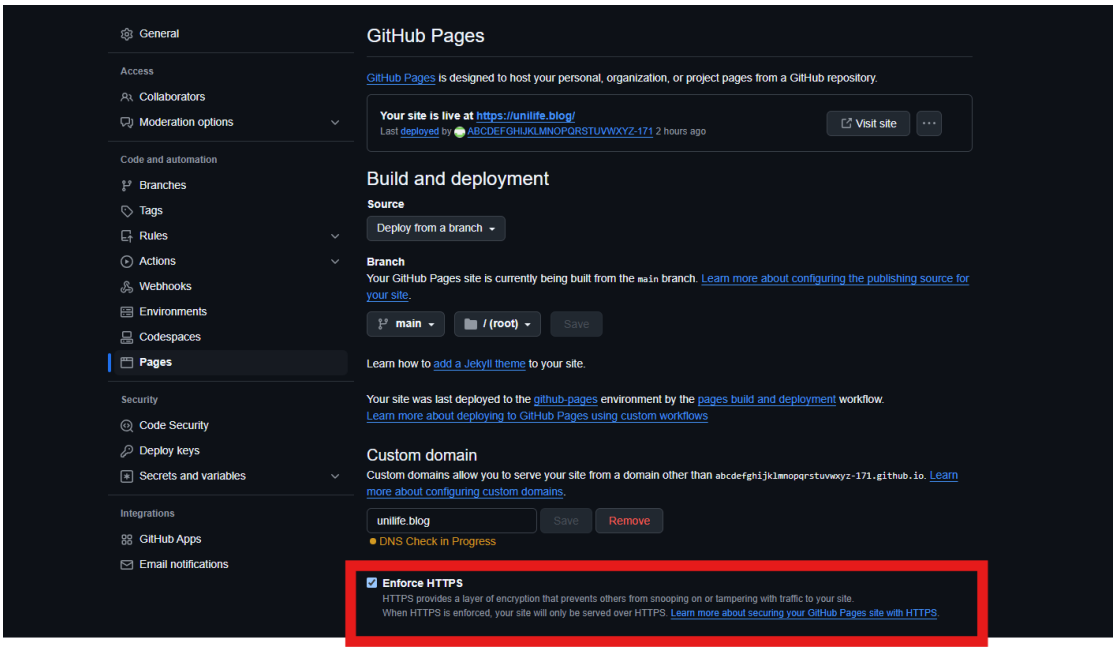




3. Type down your domain name in the custom domain section.



Wait until DNS checking is done and then down below check Enforce HTTPS in which itll produce the SSL certificate



References

GitHub: https://github.com/

Hostinger : https://www.hostinger.com/