

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 DOCUMENTATION

1. Change the directory to Downloads.

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

2. Connecting to the EC2 instance via 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

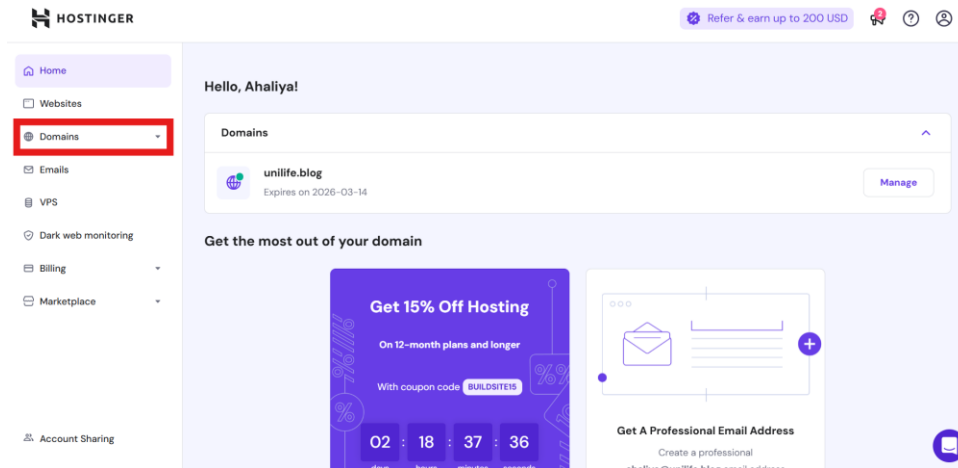
```
ubuntu@ip-172-31-37-46:/var/www/html/Assignment2$ git pull origin main
```

13. Restart Apache Web Server

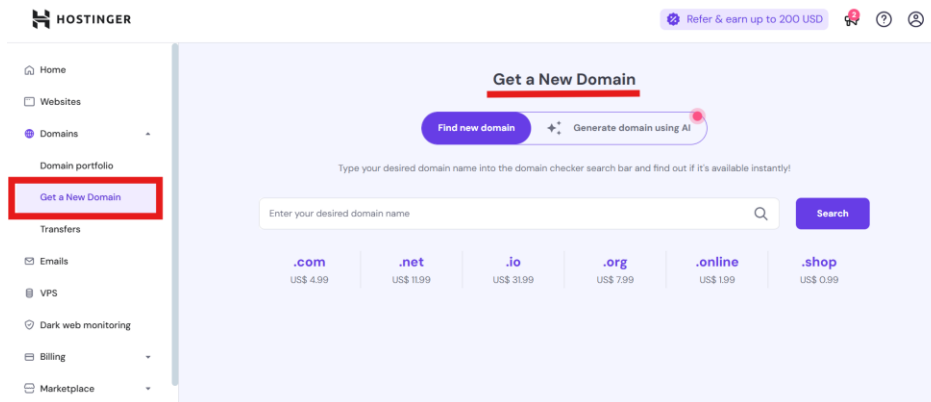
```
ubuntu@ip-172-31-37-46:/var/www/html/Assignment2$ sudo systemctl restart apache2
```

SETTING UP DOMAIN NAME WITH HOSTINGER

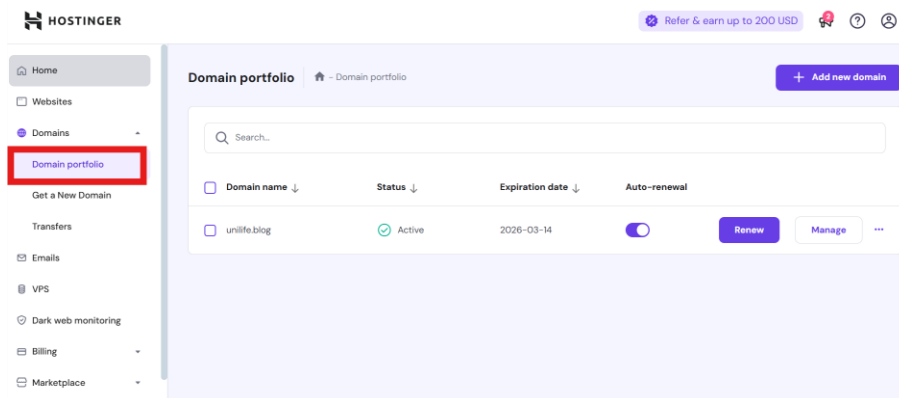
1. Login to your Hostinger account
2. Navigate to the “Domains” section



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

The screenshot shows the Hostinger dashboard. In the left sidebar, the 'Domains' menu is expanded, with 'Domain portfolio' and 'DNS / Nameservers' highlighted with red boxes. The main content area shows the 'Domain portfolio' page with a table of domains. The domain 'unilife.blog' is listed with a status of 'Active' and an expiration date of '2026-03-14'. The 'Manage' button for this domain is highlighted with a red box. Below this, the 'Domain Overview' page for 'unilife.blog' is shown. It includes details like the domain name, status, expiration date, and a 'Renew now' button. The 'DNS/Nameservers' section is highlighted with a red box, showing two nameservers: 'ns1.dns-parking.com' and 'ns2.dns-parking.com'. The 'Contact information' section shows the first name 'Ahaliya' and last name 'Leonard'. On the right, there are promotional banners for the 'Website Builder for FREE!' and a 'Your domain checklist' showing progress for registering the domain and creating a website.

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

The screenshot shows the 'Manage DNS records' form. It includes a description: 'These records define how your domain behaves. Common uses include pointing your domain at web servers or configuring email delivery for your domain.' The form has four input fields: 'Type' (set to 'A'), 'Name' (set to '@'), 'Points to' (empty), and 'TTL' (set to '14400'). An 'Add Record' button is located to the right of the 'TTL' field.

Add records according to the picture below

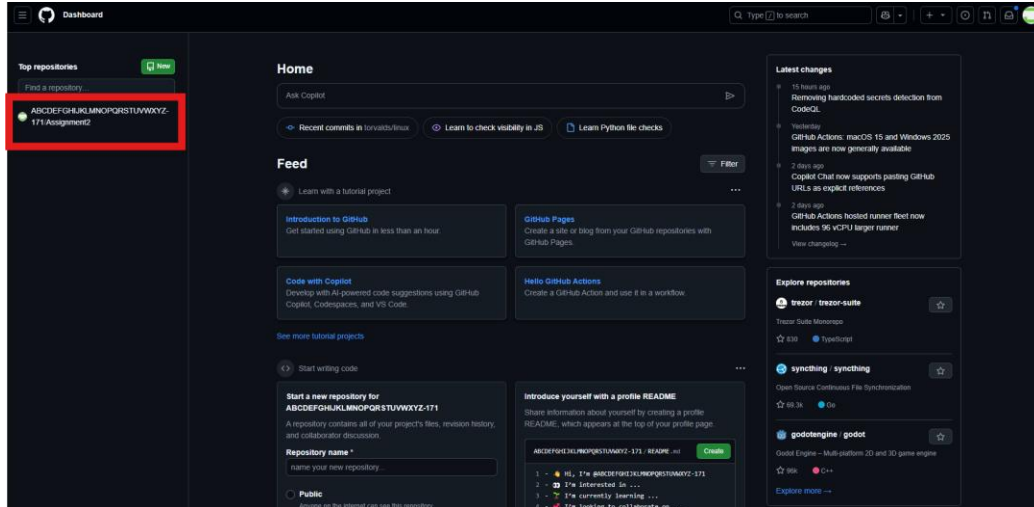
Search

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

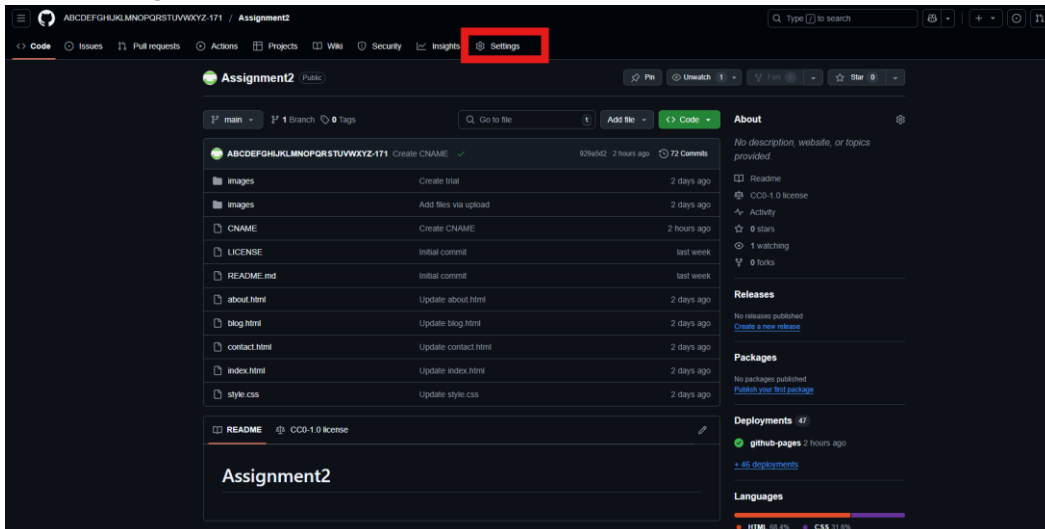
6.

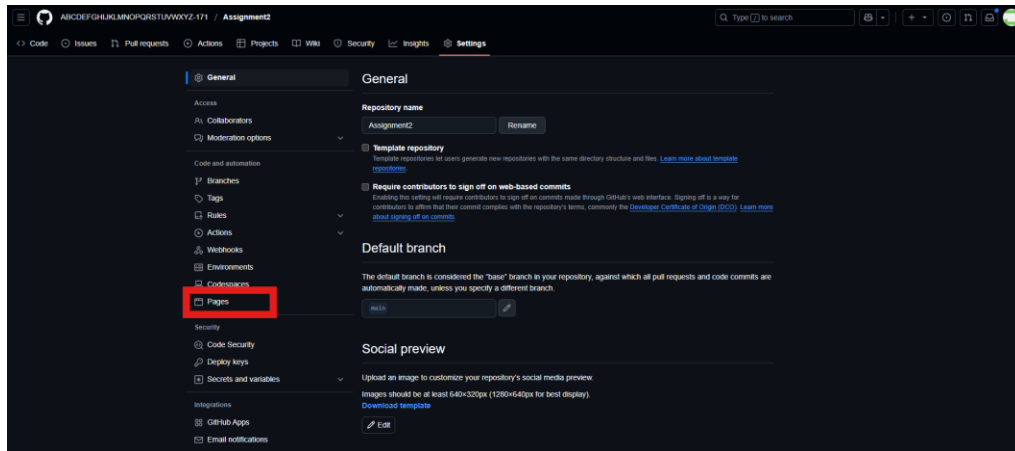
SSL certification setup

1. Go to your GitHub repository

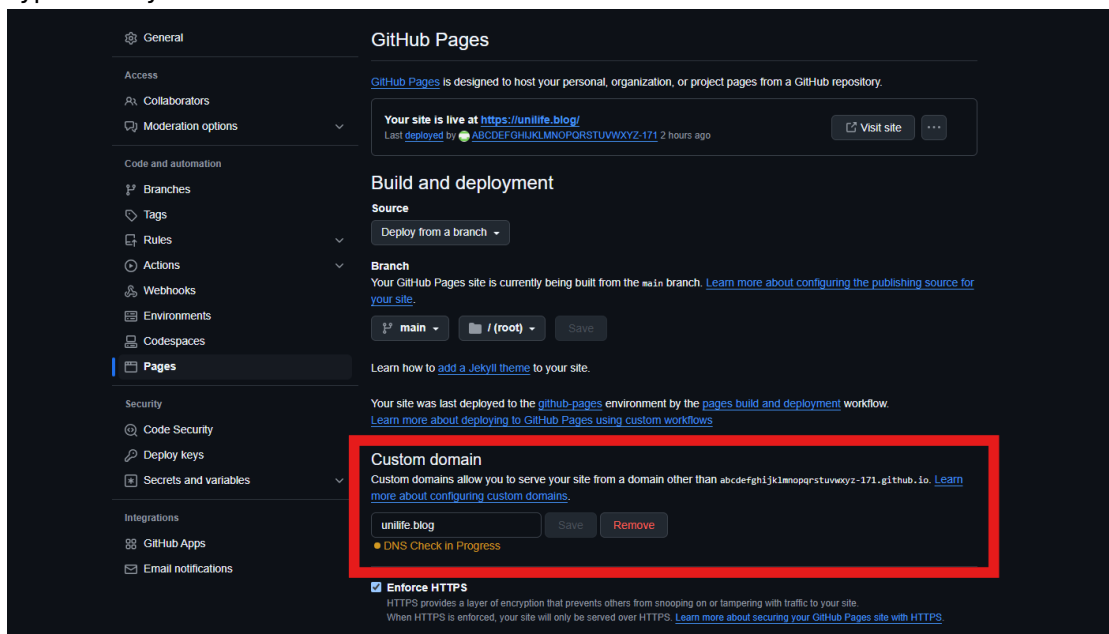


2. Click Settings





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

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Webhooks

Environments

Codespaces

Pages

Security

Code Security

Deploy keys

Secrets and variables

Integrations

GitHub Apps

Email notifications

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Your site is live at <https://unlife.blog/>
Last deployed by [ABCDEFGHIJKLMNORSTUVWXYZ-171](#) 2 hours ago [Visit site](#)

Build and deployment

Source

Deploy from a branch

Branch

Your GitHub Pages site is currently being built from the `main` branch. [Learn more about configuring the publishing source for your site.](#)

`main` `/ (root)` [Save](#)

Learn how to [add a Jekyll theme](#) to your site.

Your site was last deployed to the `github-pages` environment by the `pages build and deployment` workflow. [Learn more about deploying to GitHub Pages using custom workflows](#)

Custom domain

Custom domains allow you to serve your site from a domain other than `abcdefghijklmnopqrstuvwxyz-171.github.io`. [Learn more about configuring custom domains.](#)

`unlife.blog` [Save](#) [Remove](#)

● DNS Check in Progress

☒ **Enforce HTTPS**

HTTPS provides a layer of encryption that prevents others from snooping on or tampering with traffic to your site. When HTTPS is enforced, your site will only be served over HTTPS. [Learn more about securing your GitHub Pages site with HTTPS.](#)

References

GitHub: <https://github.com/>

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