Assignment 2

Cloud Server project

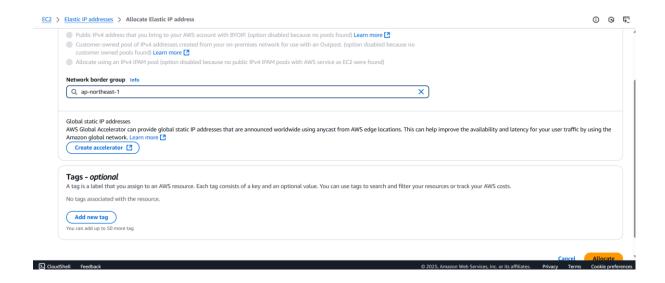
Name = Arnav Sharma

Student ID = 35554704

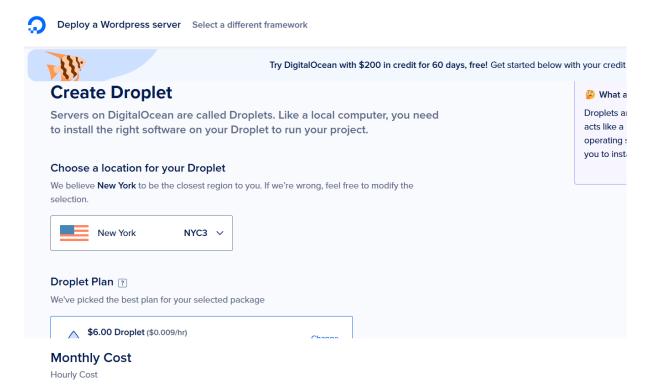
Unit Name = Introduction to Server Environments and Architectures (ICT 1711)

IP Address: - 209.38.62.119

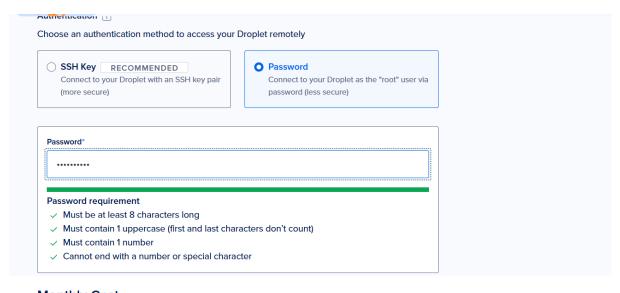
DNS: - http://brixmart.shop/



Creating the WordPress Server



Making the password the Droplet



Monthly Cost

Hourly Cost

Making project-droplet to server



This is the IP address of WordPress



Setting DNS records for digital oceans. Creating a record for www. creating a record for brixmart.shop to redirect the domain for both names.

DNS records

Туре	Hostname	Value	TTL (seconds)	
А	www.brixmart.shop	directs to 209.38.62.119	3600	More ∨
А	brixmart.shop	directs to 209.38.62.119	3600	More ∨
NS	brixmart.shop	directs to ns1.digitalocean.com.	1800	More ∨
NS	brixmart.shop	directs to ns2.digitalocean.com.	1800	More ∨
NS	brixmart.shop	directs to ns3.digitalocean.com.	1800	More ∨

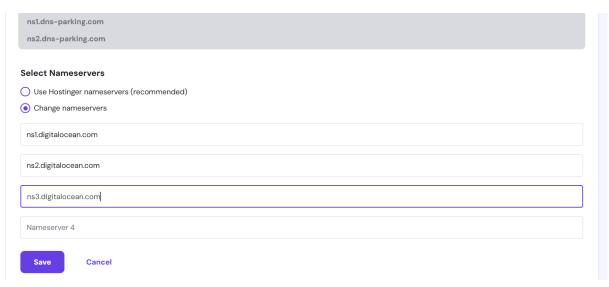
Configuring DNS records for server redirect.

Use @ to create the record at the root of the domain or enter a hostname to create it elsewhere. A records are for IPv4 addresses only and tell a request where your domain should direct to.



Туре	Hostname	Value	TTL (seconds)	
А	www.brixmart.shop	directs to 209.38.62.119	3600	More ∨
А	brixmart.shop	directs to 209.38.62.119	3600	More ∨
NS	brixmart.shop	directs to ns1.digitalocean.com.	1800	More ∨
NS	brixmart.shop	directs to ns2.digitalocean.com.	1800	More ∨
NS	brixmart.shop	directs to ns3.digitalocean.com.	1800	More ∨

Changing name servers from hostinger to digital oceans for domain redirects.

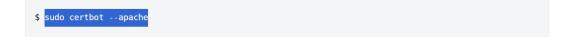


Download Apache2: -

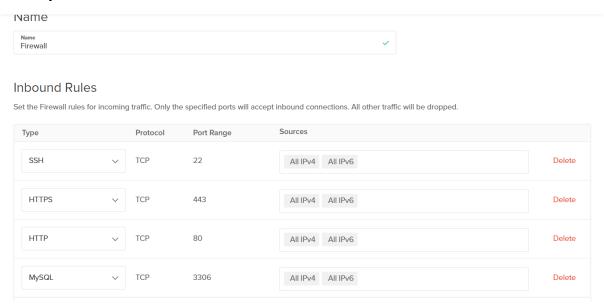
root@wordpress-s-1vcpu-1gb-nyc3-01:~# sudo apt install apache2

Installing SSL certificate.

Run this command to get a certificate and have Certbot edit your apache configuration automatically to serve it, turning on HTTPS access in a single step.



Setting firewall. Opening ports for only HTTP, HTTPS, SSH and MySQL database for security.



Connecting to droplet ssh server.

```
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 5.15.0-113-generic x86_64)
   Documentation: https://help.ubuntu.com
   Management:
                       https://landscape.canonical.com
 * Support:
                       https://ubuntu.com/pro
 System information as of Sat Apr 5 09:20:19 UTC 2025
  System load: 0.72
                                           Processes:
  Usage of /: 10.3% of 24.05GB Users logged in:
  Memory usage: 40%
                                            IPv4 address for eth0: 134.122.8.202
                                            IPv4 address for eth0: 10.17.0.5
  Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
188 updates can be applied immediately.
83 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
2 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm
New release '24.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
```

Configuring/ installing WordPress server with droplet.

```
IMPORTANT:
  After connecting to the Droplet for the first time,
  immediately add the WordPress administrator at http://134.122.8.202.
For help and more information, visit https://do.co/34TfYn8
****************
To delete this message of the day: rm -rf /etc/update-motd.d/99-one-click
Last login: Sat Apr 5 09:20:21 2025 from 198.211.111.194
This script will copy the WordPress installation into
Your web root and move the existing one to /var/www/html.old
This setup requires a domain name. If you do not have one yet, you may
cancel this setup, press Ctrl+C. This script will run again on your next login
Enter the domain name for your new WordPress site.
(ex. example.org or test.example.org) do not include www or http/s
Domain/Subdomain name: brixmart.shop
Enabling conf block-xmlrpc.
To activate the new configuration, you need to run:
systemctl reload apache2
Now we will create your new admin user account for WordPress.
Your Email Address: 35554704@student.murdoch.edu.au
Username: Arnavking
Password:
Blog Title: Brixmart
Is the information correct? [Y/n] y
```

Installing lest Encrypt cerbot for SSL certificate.

```
Next, you have the option of configuring LetsEncrypt to secure your new site. Before doing this, be sure that you have pointed your domain or subdomain to this server's IF
 address. You can also run LetsEncrypt certbot later with the command 'certbot --apache'
Would you like to use LetsEncrypt (certbot) to configure SSL(https) for your new site? (y/n): y
 daving debug log to /var/log/letsencrypt/letsencrypt.log
Enter email address (used for urgent renewal and security notices)
 (Enter 'c' to cancel): 35554704@student.murdoch.edu.au
Please read the Terms of Service at
https://letsencrypt.org/documents/LE-SA-v1.5-February-24-2025.pdf. You must
 agree in order to register with the ACME server. Do you agree?
(Y)es/(N)o: y
 Mould you be willing, once your first certificate is successfully issued, to
share your email address with the Electronic Frontier Foundation, a founding
partner of the Let's Encrypt project and the non-profit organization that
 develops Certbot? We'd like to send you email about our work encrypting the web,
EFF news, campaigns, and ways to support digital freedom.
(Y)es/(N)o: y
Account registered.
Which names would you like to activate HTTPS for?
1: brixmart.shop
2: www.brixmart.shop
Select the appropriate numbers separated by commas and/or spaces, or leave input
blank to select all options shown (Enter 'c' to cancel): 1
 equesting a certificate for brixmart.shop
Certbot failed to authenticate some domains (authenticator: apache). The Certificate Authority reported these problems:
  Domain: brixmart.shop
  Type: unauthorized
  Detail: 84.32.84.32: Invalid response from http://brixmart.shop/.well-known/acme-challenge/9m2PvIwoXzv--TpeftCKbgWlUyEzWxhvZSkggJ49g A: 500
Hint: The Certificate Authority failed to verify the temporary Apache configuration changes made by Certbot. Ensure that the listed domains point to this Apache server and
 that it is accessible from the internet.
Ask for help or search for solutions at https://community.letsencrypt.org. See the logfile /var/log/letsencrypt/letsencrypt.log or re-run Certbot with -v for more details.
 OrdPress has been enabled at https://brixmart.shop Please open this URL in a browser to complete the setup of your site.
/root/wp setup.sh: line 133: break: only meaningful in a `for', `while', or `until' loop
Finalizing installation...
 -2025-04-05 09:27:28-- https://raw.githubusercontent.com/wp-cli/builds/gh-pages/phar/wp-cli.phar
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133, 185.199.109.133, 185.199.110.133, ...
 Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.111.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 7048108 (6.7M) [application/octet-stream]
Saving to: \/usr/bin/wp/
 usr/bin/wp
                             100%[===
                                                                      ======>] 6.72M --.-KB/s in 0.06s
2025-04-05 09:27:28 (116 MB/s) - \u00ed/usr/bin/wp' saved [7048108/7048108]
```