# Assignment 2 Cloud Server Project

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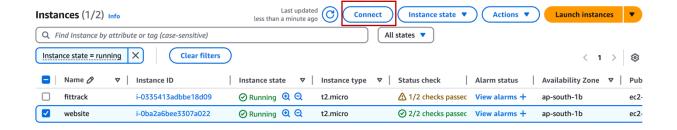
DNS: <a href="https://myfittrack.it.com">https://myfittrack.it.com</a>

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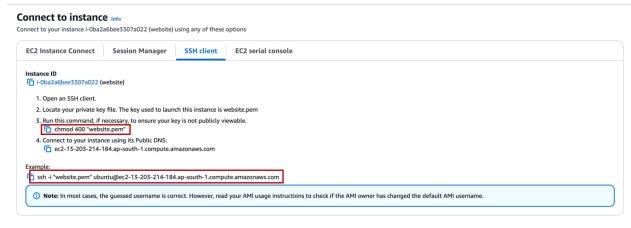
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#### **Setting up Web Server**

1. Launch the Ubuntu instance and attach the Elastic IP, then attach it to the instance.



2. After allocating the Elastic IP, attach it to the instance and launch the instance.



3. After copy pasting the above codes in the ubuntu terminal, you can access the instance.
Setting up Apache
1. Install Apache in Ubuntu
sudo apt-get install apache2
2. After accessing, update & upgrade.
sudo apt update && sudo apt upgrade -y
3. Start Apache and enable it to start on boot
sudo systemctl start apache2 sudo systemctl enable apache2
4. Check Apache status.

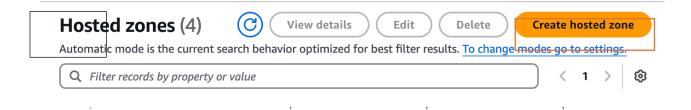
sudo systemctl status apache2

### **Setting up DNS**

1. Buy a domain name (from namecheap, GoDaddy, etc)



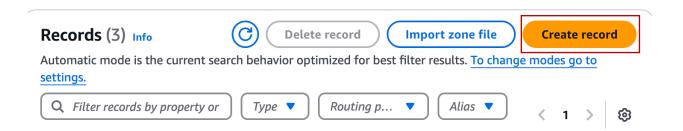
2. Use Route 53 as the hosting zone



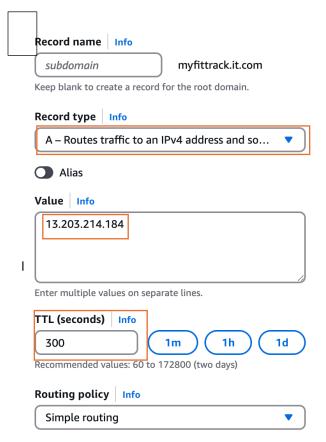
3. Enter the details of your domain & set it as a Public hosted zone



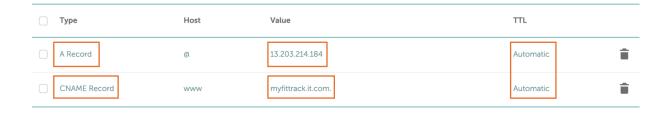
4. Once the hosted zone is created, click on it & create an A record



5. Add in your public IP address, in the value section, set TTL to 300, and routing policy to Simple routing



6. After creating your record, go to your domain host's website (namecheap in my case) & edit the settings of the advanced DNS.



## **Getting the SSL Certificate**

1. Install Lets Encrypt SSL

sudo apt install certbot python3-certbot-apache -y sudo certbot --apache -d myfittrack.it.com

2. Get the Certificate for Apache

sudo certbot --apache

#### **Setting up Wordpress on Ubuntu**

1. Update System & Install Required Packages

ssh -i "website.pem" ubuntu@ec2-13-203-214-184.ap-south-1.compute.amazonaws.comsudo apt update &&sudo apt upgrade -y

2. Install Apache, MySQL, and PHP

sudo apt install apache2 mysql-server php php-mysql libapache2-mod-php php-cli php-curl php-gd php-mbstring php-xml php-zip unzip -y

3. Create a MYSQL Database for Wordpress and login to MySQL

sudo mysql

4. Create a database and user for WordPress

```
CREATE DATABASE wordpress_db;

CREATE USER 'nadafathima2006'@'localhost' IDENTIFIED BY 'Singapore9087.?]';

GRANT ALL PRIVILEGES ON wordpress_db.* TO 'nadafathima2006'@'localhost';

FLUSH PRIVILEGES;

EXIT;
```

5. Download and configure Wordpress, and navigate to the Apache web root directory

```
cd /var/www/html
sudo rm -rf *
```

6. Download and extract Wordpress

```
sudo wget https://wordpress.org/latest.zip
sudo unzip latest.zip
sudo mv wordpress/* .
sudo rm -rf wordpress latest.zip
```

7. Set proper permissions

sudo chown -R www-data:www-data/var/www/html

8. Configure Wordpress to Use your Database

 $sudo\ cp\ wp\text{-}config\text{-}sample.php\ wp\text{-}config.php$ 

9. Edit the file:

sudo nano wp-config.php

10. Update these lines with your database credentials

```
define('DB_NAME', 'wordpress_db');
define('DB_USER', 'nadafathima2006r');
define('DB_PASSWORD', 'Singapore9087.?]');
define('DB_HOST', 'localhost');
```

Save and Exit, Ctrl X, Y, then Enter

11. Restart Apache

sudo systemctl restart apache2

12. Finish Wordpress Setup in Browser

Open your browser and visit your domain: <a href="http://myfittrack.it.com">http://myfittrack.it.com</a>

13. Follow the Wordpress installation wizard:

Select language
Enter Site Title (FitTrack)
Set Admin Username and Password

#### 14. Now your logged into Wordpress & can start building your website

