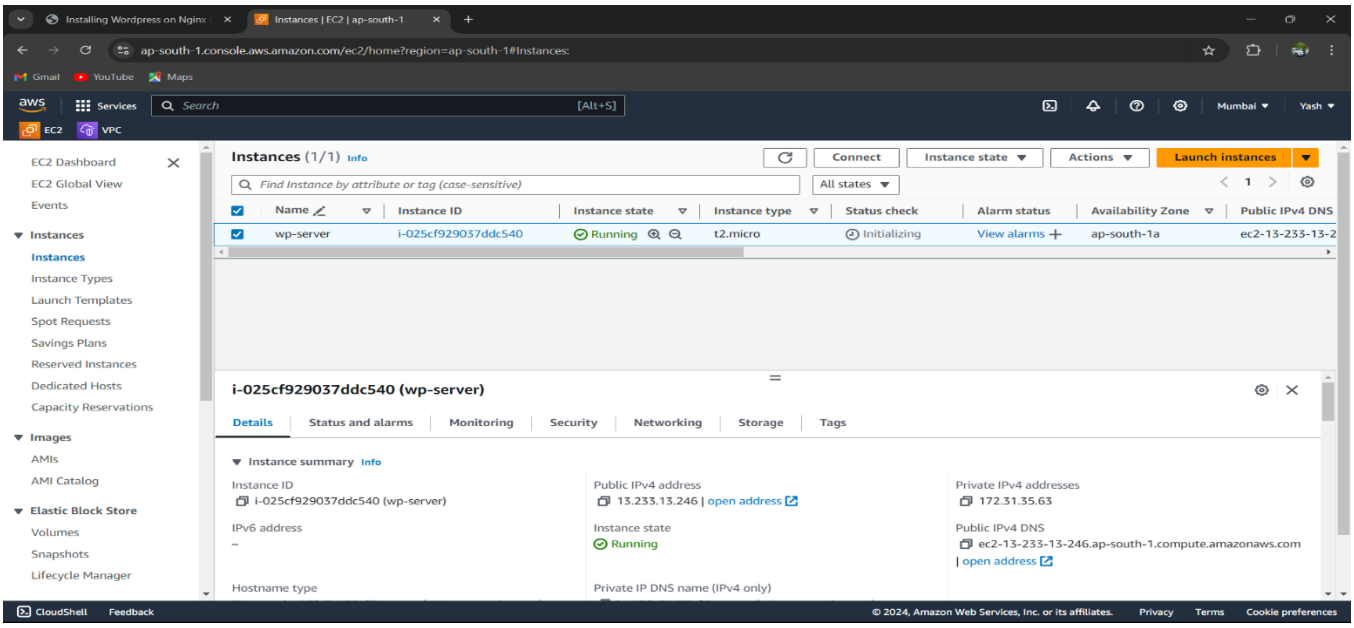
Deployment process for a WordPress website using Nginx as the web server

Description:

- 1 EC2 instance, deploy word press and MYSQL on the same instances.
- Configure the necessary security group for the instances.
- EC2 instance type: t2-micro, AMI: ubuntu-*.
- Create a welcome page in wordpress that will be the homepage.

Launch an AWS EC2 Instance:

- Log in to your AWS Management Console.
- Navigate to the EC2 Dashboard and click on “Launch Instance”
- Give the instance name as “wp-server”.
- Select Amazon Machine Image (AMI) that fits your needs.
- Choose an instance type based on your requirements. I will choose a “t2.micro” instance.
- Configure instance details, such as the number of instances, network settings, and storage. Make sure to add a security group that allows HTTP (port 80) and HTTPS (port 443) inbound traffic.
- Review the configurations and click on the “Launch instance”



Commands:

1. **Updating the package list**

   sudo apt update

2. **PHP, MySQL and Nginx installation**

   sudo apt install php-fpm php-mysql mysql-server nginx unzip

3. **Configuring Nginx to work with PHP**

   cd /etc/nginx/sites-available

   sudo rm default

   sudo nano default

```
server {
    listen 80;
    server_name your_server_domain_or_IP;

    root /var/www/html;
    index index.php index.html index.htm;

    location / {
        try_files $uri $uri/ =404;
    }

    location ~ .php$ {
        include snippets/fastcgi-php.conf;
        fastcgi_pass unix:/var/run/php/php8.3-fpm.sock;
        fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
        include fastcgi_params;
    }
}
```

4. **Restarting Nginx**

   sudo systemctl restart nginx.service

5. **Removing the default index.html page**

   cd /var/www/html

   sudo rm index.nginx-debian.html

6. **Downloading Wordpress to the Ubuntu server**

   sudo wget https://wordpress.org/latest.zip

7. **Extracting the contents of the Wordpress archive**

   sudo unzip latest.zip

8. **Moving WordPress to the server's root folder**

   sudo mv wordpress/* .

9. **Changing the owner of the Wordpress files**

   sudo chown -R www-data:www-data *

10. **Securing MySQL installation**

    sudo mysql_secure_installation

11. **Creating the database and a database user**

    We first need to start MySQL:

    sudo mysql

    Create the database for WordPress

    CREATE DATABASE wordpress_db;

    Database user:

    CREATE USER 'wordpress_user'@'localhost' IDENTIFIED BY 'P@55word';

    grant privileges to the user on the databse:

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

    Exit;

12. **Installing WordPress**

    We can now visit the server's IP address and use WordPress's built in installer.

We will need to provide the database and username we just created.

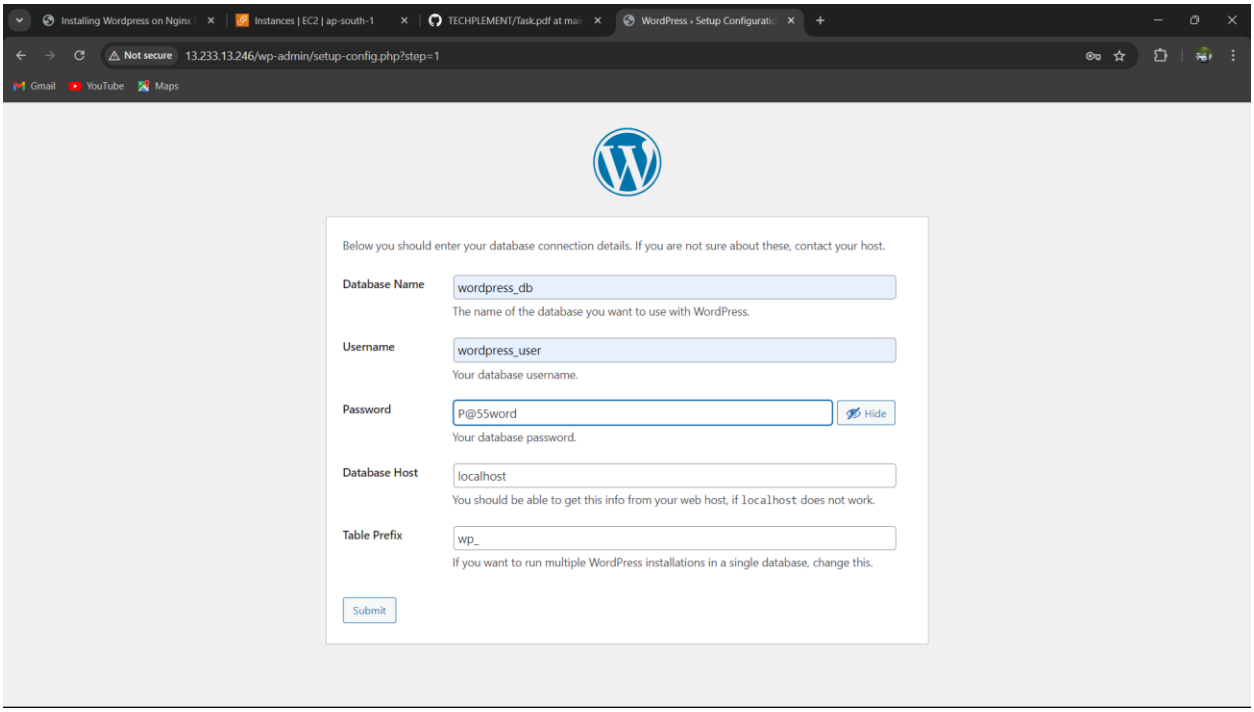
13. Creating wp-config.php

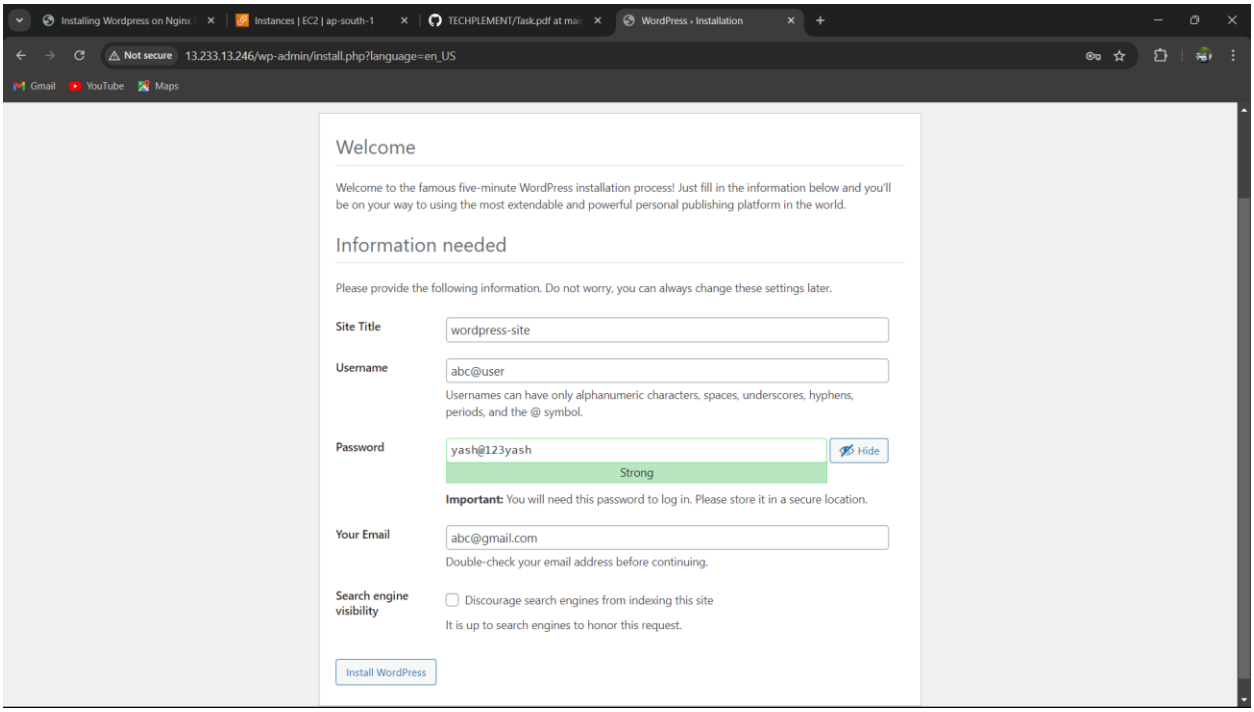
sudo nano wp-config.php

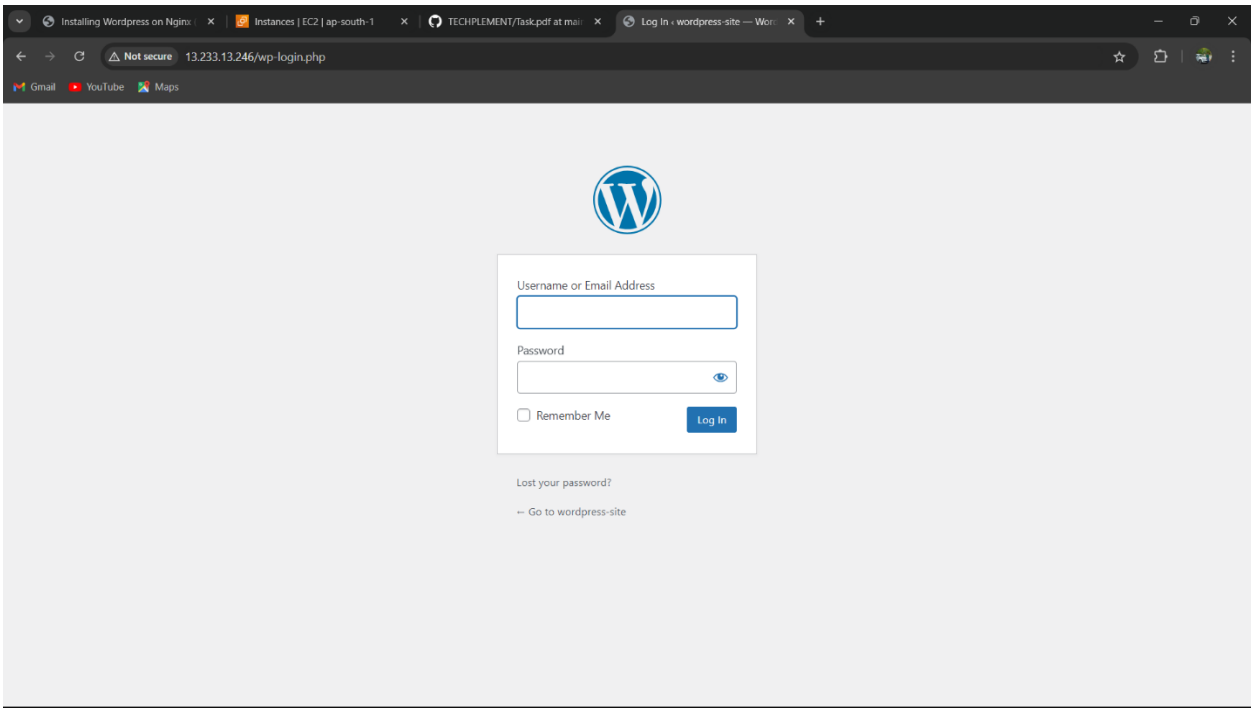
Then copy the content of the file from the WordPress installer and paste it into your file.

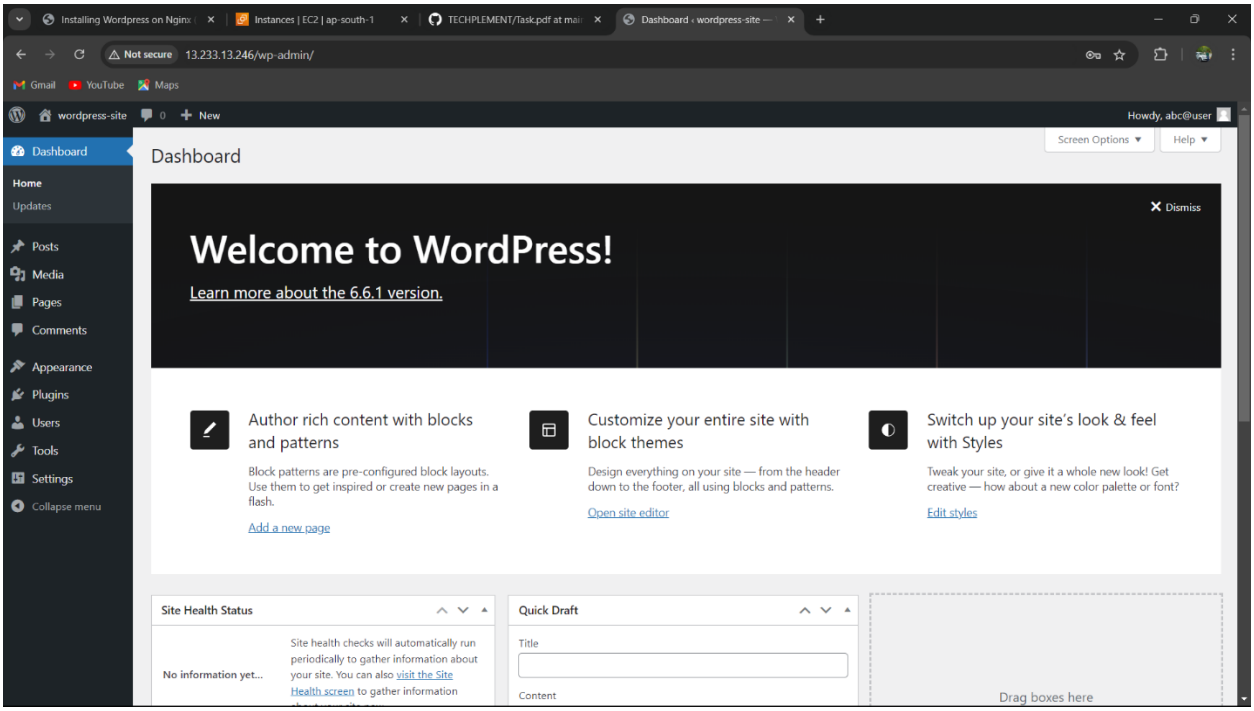
click on "Run the installation"

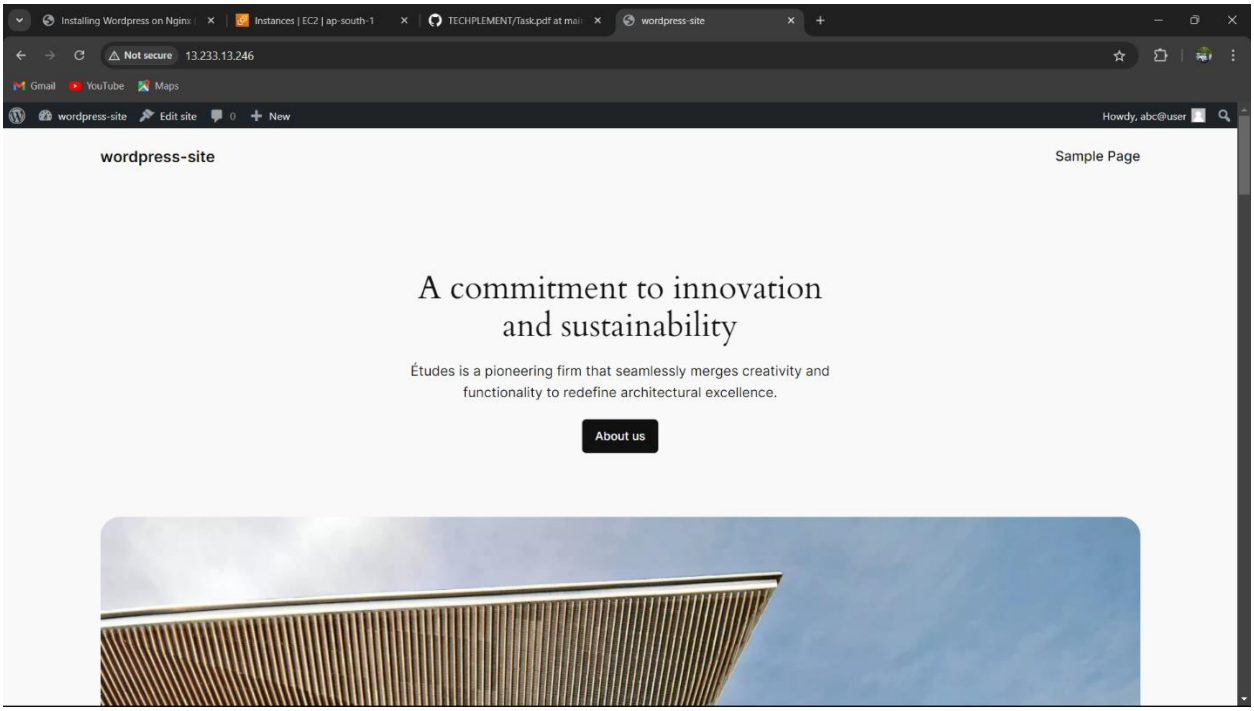
Open your browser and navigate to your WordPress instance's public IP address. Follow the WordPress installation wizard to complete the setup.




Installing Wordpress on Nginx
Instances | EC2 | ap-south-1
TECHPLEMENT/Task.pdf at main
WordPress › Installation
Not secure
13.233.13.246/wp-admin/install.php?language=en_US
Gmail
YouTube
Maps
Welcome
Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.
Information needed
Please provide the following information. Do not worry, you can always change these settings later.
Site Title
wordpress-site
Username
abc@user
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.
Password
yash@123yash
Hide
Strong
Important: You will need this password to log in. Please store it in a secure location.
Your Email
abc@gmail.com
Double-check your email address before continuing.
Search engine visibility
Discourage search engines from indexing this site
It is up to search engines to honor this request.
Install WordPress


Installing Wordpress on Nginx
Instances | EC2 | ap-south-1
TECHPLEMENT/Task.pdf at main
Log In ‹ wordpress-site — Wor
Not secure
13.233.13.246/wp-login.php
Gmail
YouTube
Maps
Username or Email Address
Password
Remember Me
Log In
Lost your password?
← Go to wordpress-site


Not secure 13.233.13.246/wp-admin/
wordpress-site
New
Howdy, abc@user
Dashboard
Home
Updates
Posts
Media
Pages
Comments
Appearance
Plugins
Users
Tools
Settings
Collapse menu
Screen Options
Help
Dismiss
Welcome to WordPress!
Learn more about the 6.6.1 version.
Author rich content with blocks and patterns
Block patterns are pre-configured block layouts. Use them to get inspired or create new pages in a flash.
Add a new page
Customize your entire site with block themes
Design everything on your site — from the header down to the footer, all using blocks and patterns.
Open site editor
Switch up your site's look & feel with Styles
Tweak your site, or give it a whole new look! Get creative — how about a new color palette or font?
Edit styles
Site Health Status
No information yet...
Site health checks will automatically run periodically to gather information about your site. You can also visit the Site Health screen to gather information
Quick Draft
Title
Content
Drag boxes here


Not secure 13.233.13.246
wordpress-site
Edit site
New
Howdy, abc@user
wordpress-site
Sample Page
A commitment to innovation and sustainability
Études is a pioneering firm that seamlessly merges creativity and functionality to redefine architectural excellence.
About us