To set up your WordPress and MySQL microservices on two EC2 instances, we need to:

1. **Configure the security groups** for both the WordPress and MySQL instances.
2. **Deploy WordPress** and configure it to connect to the MySQL database.
3. **Create a WordPress homepage** that users can log in to.

Security Groups Configuration

1. **WordPress EC2 Instance (3.90.208.9)**

   - **Inbound Rules:**
     - HTTP (port 80) from `0.0.0.0/0` (for public web access)
     - HTTPS (port 443) from `0.0.0.0/0` (for secure web access if using SSL)
     - SSH (port 22) from `49.205.209.240/32` (your IP for secure SSH access)
     - MySQL/Aurora (port 3306) from `172.31.31.200/32` (allow the WordPress instance to communicate with the MySQL instance)

   - **Outbound Rules:**
     - All traffic allowed by default (for internet access, updates, etc.)

2. **MySQL EC2 Instance (54.82.112.9)**

   - **Inbound Rules:**
     - MySQL/Aurora (port 3306) from `172.31.22.186/32` (allow the WordPress instance to communicate with the database)
     - SSH (port 22) from `49.205.209.240/32` (your IP for secure SSH access)

   - **Outbound Rules:**
     - All traffic allowed by default (for package updates, etc.)

WordPress Setup

1. **Launch the EC2 Instances:**
   - Launch two EC2 instances using the `t2.micro` instance type and Ubuntu AMI (`ubuntu-*`).
   - Assign the security groups you just configured to each instance.

2. **Set up the MySQL database:**
   - SSH into your MySQL instance using your private key:

     ssh -i your-key.pem ubuntu@54.82.112.9

   - Install MySQL:

     sudo apt update
     sudo apt install mysql-server -y

   - Log into MySQL as root:

     sudo mysql -u root -p

   - Create the WordPress database and user:

     CREATE DATABASE wordpress;
     CREATE USER 'wp_user'@'%' IDENTIFIED BY 'varshasr';
     GRANT ALL PRIVILEGES ON wordpress.* TO 'wp_user'@'%';
     FLUSH PRIVILEGES;
     EXIT;

   - Configure MySQL to allow connections from the WordPress instance. Edit the MySQL config file:

     sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf

   - Change the bind address to:

bind-address = 0.0.0.0

- Restart MySQL:

sudo systemctl restart mysql

3. **Set up WordPress:**
   - SSH into your WordPress instance using your private key:

ssh -i your-key.pem ubuntu@3.90.208.9

   - Install Apache, PHP, and necessary PHP extensions:

sudo apt update
sudo apt install apache2 php php-mysql -y

   - Download WordPress:

wget https://wordpress.org/latest.tar.gz
tar -xvzf latest.tar.gz
sudo mv wordpress/* /var/www/html/

   - Configure WordPress to connect to the MySQL database. Edit the WordPress config file:

sudo nano /var/www/html/wp-config.php

Set the database details:
php
define('DB_NAME', 'wordpress');

```
define('DB_USER', 'wp_user');
define('DB_PASSWORD', 'varshasr');
define('DB_HOST', '172.31.31.200');
```

- Set the proper permissions:

```
sudo chown -R www-data:www-data /var/www/html/
sudo chmod -R 755 /var/www/html/
```

- Restart Apache:

```
sudo systemctl restart apache2
```

4. **Create a Welcome Page:**
   - Access your WordPress site by navigating to `http://3.90.208.9` in a browser.

if apache comes then,

Verify WordPress Installation: Ensure that WordPress files are in the /var/www/html/ directory.

SSH into your WordPress instance:

```
ssh -i your-key.pem ubuntu@3.90.208.9
```

Check the contents of the /var/www/html/ directory:

```
ls /var/www/html/
```

You should see WordPress files such as index.php, wp-config.php, wp-admin, wp-content, etc.

If you see the default index.html file from Apache, it’s causing the default page to show. You should remove it:

bash

sudo rm /var/www/html/index.html

Move WordPress Files: If you haven't already, download and extract the WordPress package:

wget https://wordpress.org/latest.tar.gz

tar -xvzf latest.tar.gz

sudo mv wordpress/* /var/www/html/

Set File Permissions: Set the correct permissions for the WordPress files:

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

sudo chmod -R 755 /var/www/html/

Configure WordPress Database Connection: Make sure the wp-config.php file is properly configured with the database details. If you haven’t done this yet, you can create the wp-config.php file by copying the sample configuration file:

sudo cp /var/www/html/wp-config-sample.php /var/www/html/wp-config.php

sudo nano /var/www/html/wp-config.php

Update the database connection details:

define('DB_NAME', 'wordpress');

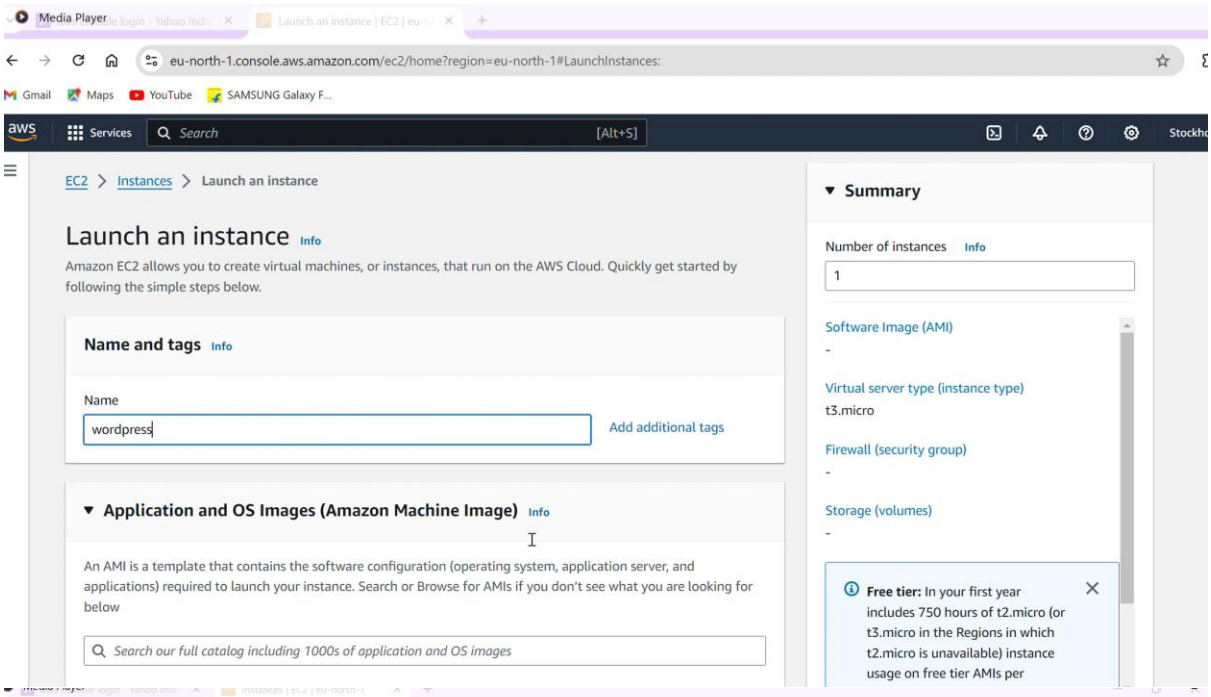
define('DB_USER', 'wp_user');

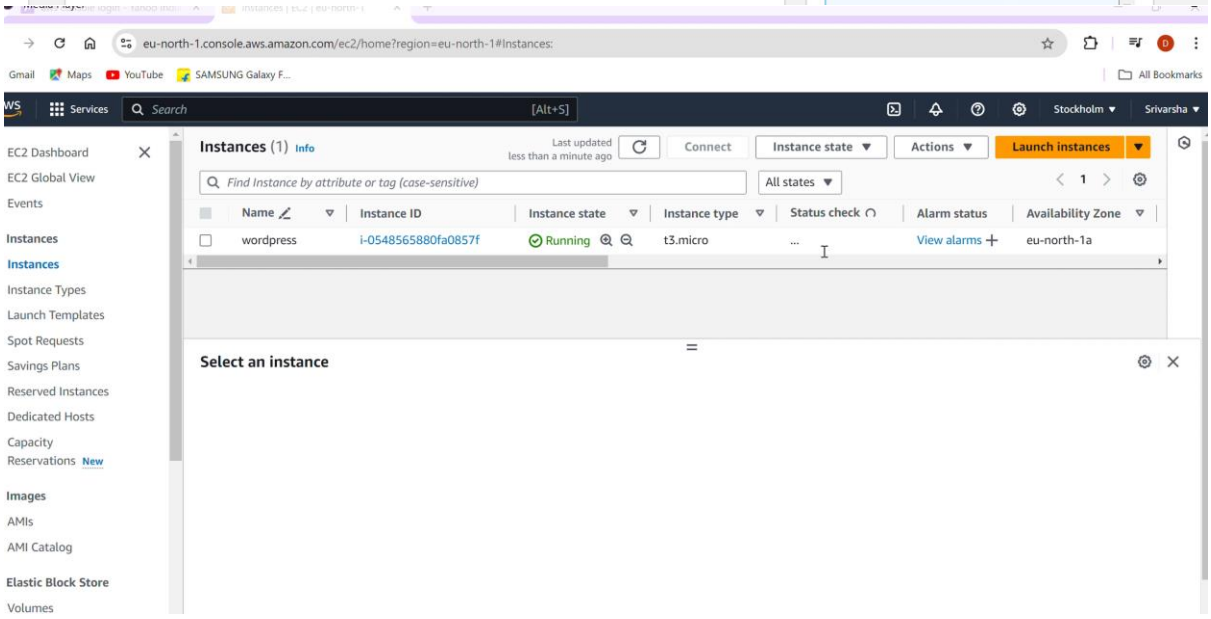
define('DB_PASSWORD', 'varshasr');

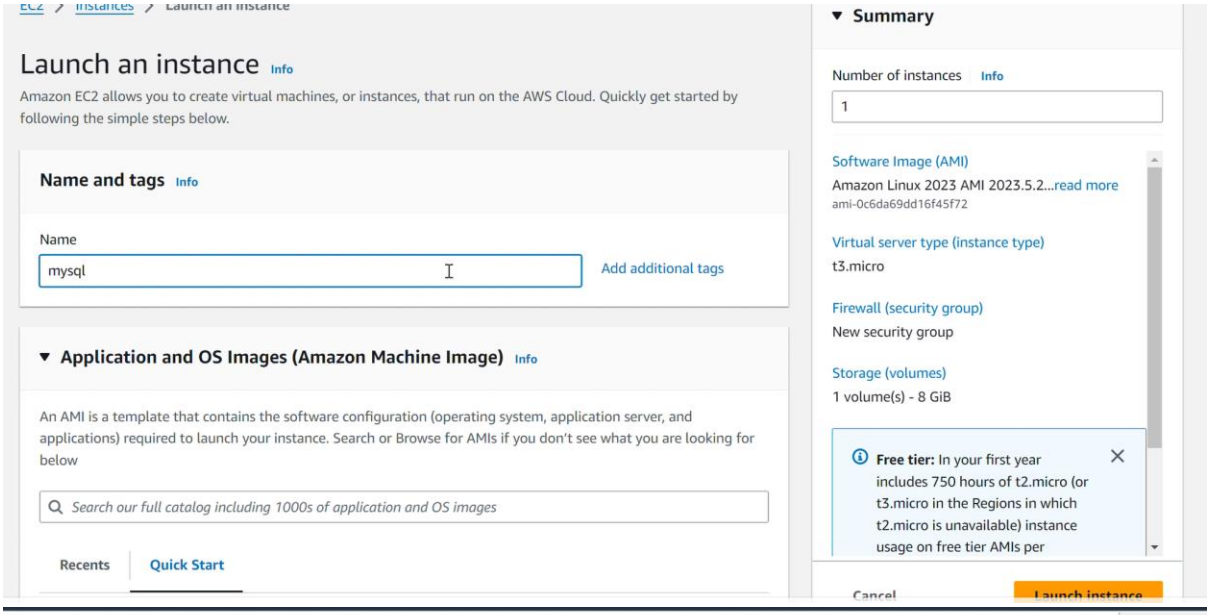
define('DB_HOST', '172.31.31.200'); // MySQL instance private IP

Restart Apache: After making all these changes, restart Apache:

sudo systemctl restart apache2







HTTPS	TCP	443

Source type Info	Source Info	Description - *optional* Info
Anywhere	Add CIDR, prefix list or security	e.g. SSH for admin desktop
	0.0.0.0/0	

Security group rule 3 (TCP, 80, 0.0.0.0/0) — Remove

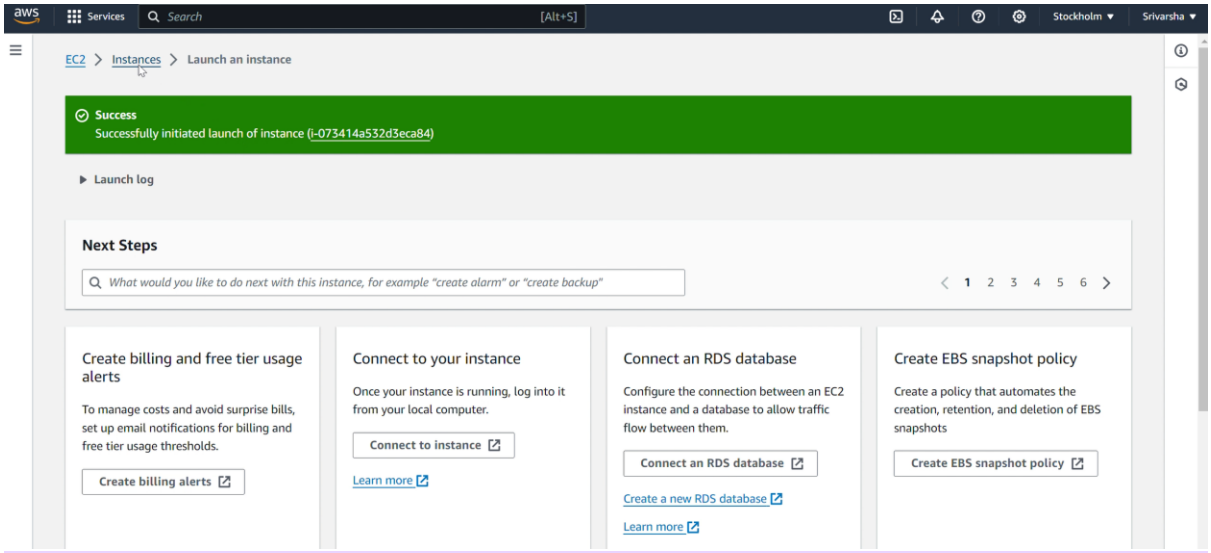
Type Info	Protocol Info	Port range Info
HTTP	TCP	80

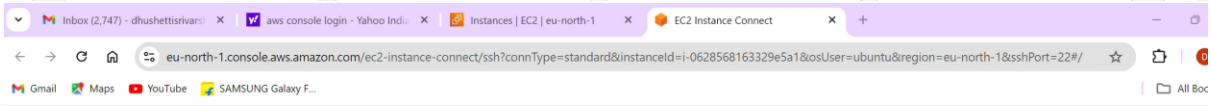
Source type Info	Source Info	Description - *optional* Info
Anywhere	Add CIDR, prefix list or security	e.g. SSH for admin desktop
	0.0.0.0/0	

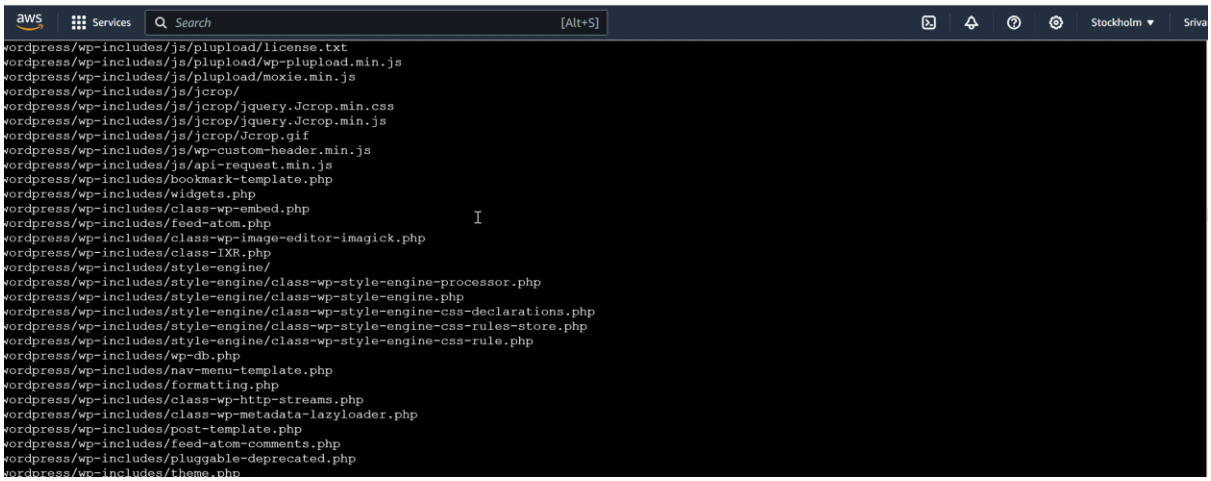
Security group rule 4 (TCP, 3306) — Remove

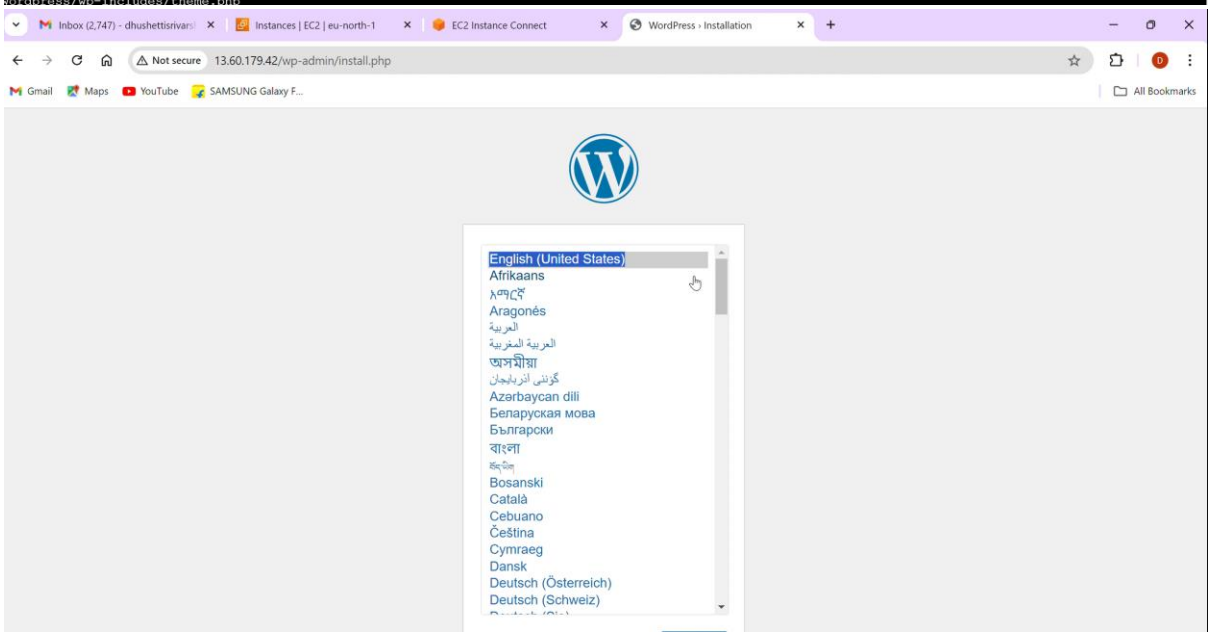
Type Info	Protocol Info	Port range Info
MYSQL/Aurora	TCP	3306

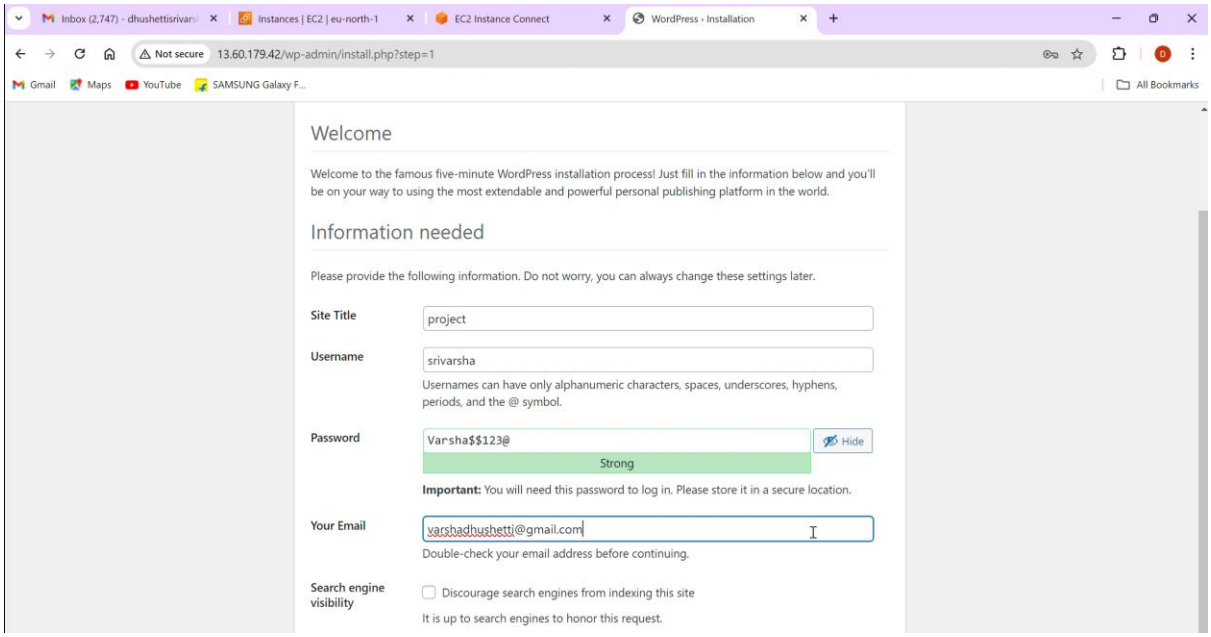
Source type Info	Source Info	Description - *optional* Info
Custom	Add CIDR, prefix list or security	e.g. SSH for admin desktop

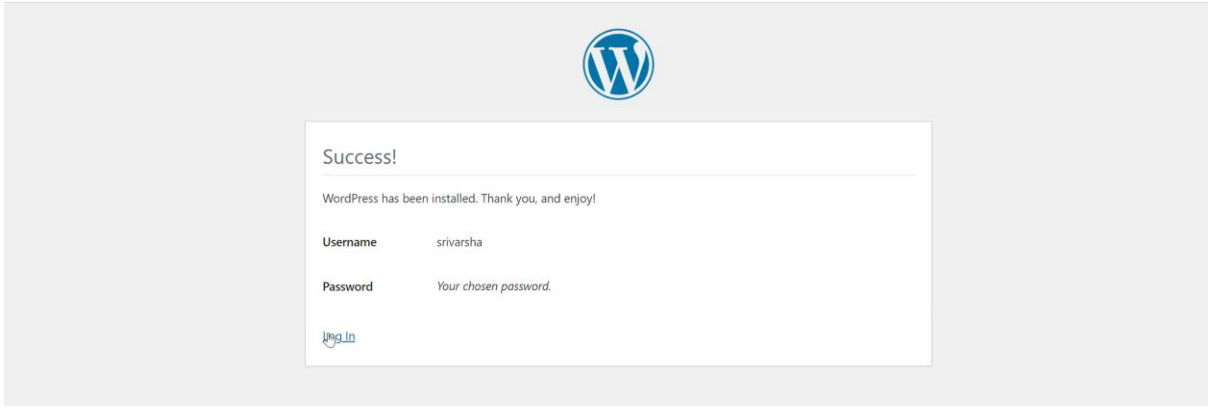

aws
Services
Search
[Alt+S]
Stockholm
Srivarsha
EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-073414a532d3eca84)
Launch log
Next Steps
What would you like to do next with this instance, for example "create alarm" or "create backup"
1 2 3 4 5 6
Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
Create billing alerts
Connect to your instance
Once your instance is running, log into it from your local computer.
Connect to instance
Learn more
Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
Connect an RDS database
Create a new RDS database
Learn more
Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots
Create EBS snapshot policy

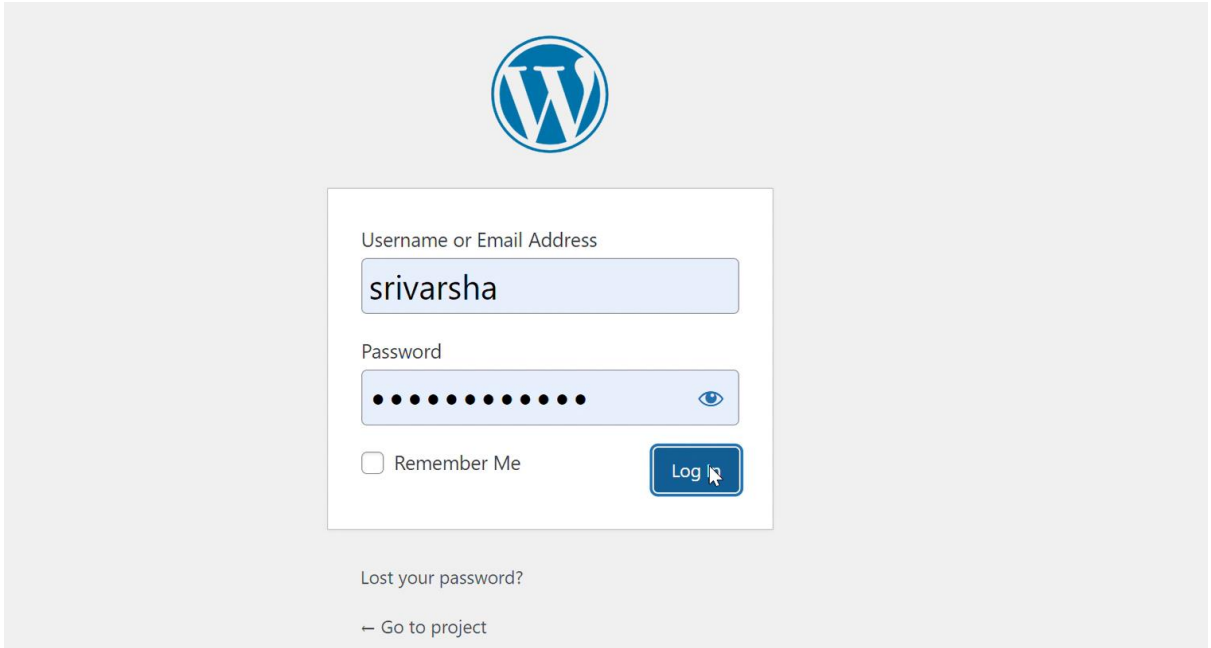

Inbox (2,747) - dhushettisrivars
aws console login - Yahoo India
Instances | EC2 | eu-north-1
EC2 Instance Connect
eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0628568163329e5a1&osUser=ubuntu&region=eu-north-1&sshPort=22#/
Gmail
Maps
YouTube
SAMSUNG Galaxy F...

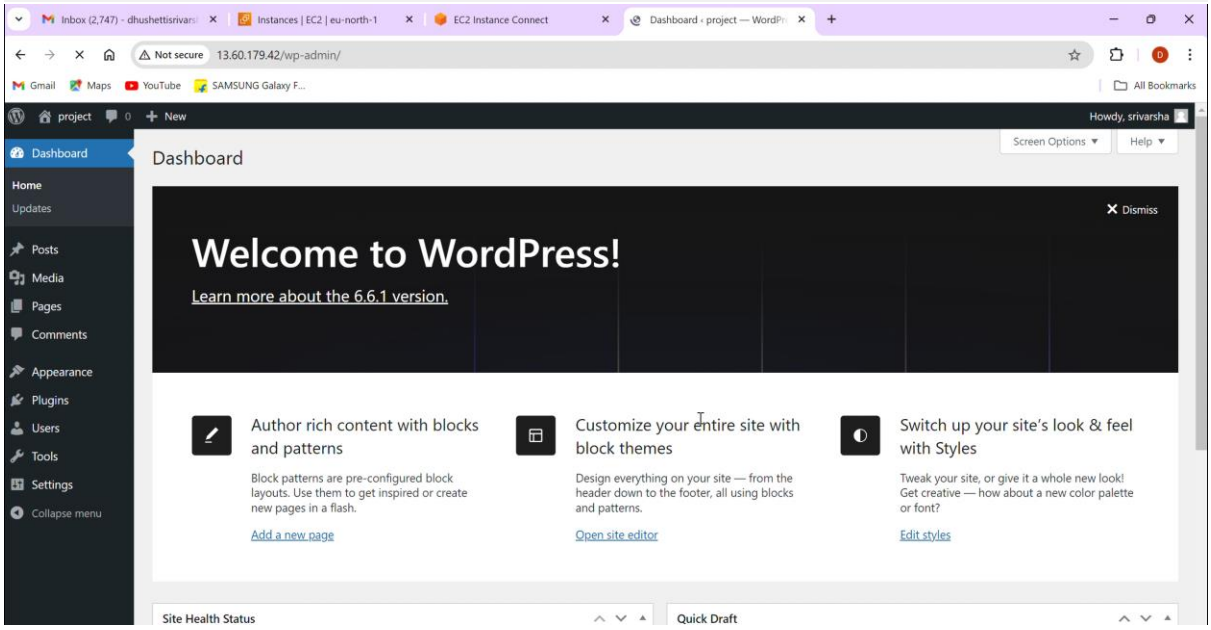

aws
Services
Search
[Alt+S]
Stockholm
wordpress/wp-includes/js/plupload/license.txt
wordpress/wp-includes/js/plupload/wp-plupload.min.js
wordpress/wp-includes/js/plupload/moxie.min.js
wordpress/wp-includes/js/jcrop/
wordpress/wp-includes/js/jcrop/jquery.Jcrop.min.css
wordpress/wp-includes/js/jcrop/jquery.Jcrop.min.js
wordpress/wp-includes/js/jcrop/Jcrop.gif
wordpress/wp-includes/js/wp-custom-header.min.js
wordpress/wp-includes/js/api-request.min.js
wordpress/wp-includes/bookmark-template.php
wordpress/wp-includes/widgets.php
wordpress/wp-includes/class-wp-embed.php
wordpress/wp-includes/feed-atom.php
wordpress/wp-includes/class-wp-image-editor-imagick.php
wordpress/wp-includes/class-IXR.php
wordpress/wp-includes/style-engine/
wordpress/wp-includes/style-engine/class-wp-style-engine-processor.php
wordpress/wp-includes/style-engine/class-wp-style-engine.php
wordpress/wp-includes/style-engine/class-wp-style-engine-css-declarations.php
wordpress/wp-includes/style-engine/class-wp-style-engine-css-rules-store.php
wordpress/wp-includes/style-engine/class-wp-style-engine-css-rule.php
wordpress/wp-includes/wp-db.php
wordpress/wp-includes/nav-menu-template.php
wordpress/wp-includes/formatting.php
wordpress/wp-includes/class-wp-http-streams.php
wordpress/wp-includes/class-wp-metadata-lazyloader.php
wordpress/wp-includes/post-template.php
wordpress/wp-includes/feed-atom-comments.php
wordpress/wp-includes/pluggable-deprecated.php
wordpress/wp-includes/theme.php


Inbox (2,747) - dhushettisrivars
Instances | EC2 | eu-north-1
EC2 Instance Connect
WordPress › Installation
Not secure
13.60.179.42/wp-admin/install.php
Gmail
Maps
YouTube
SAMSUNG Galaxy F...
All Bookmarks
English (United States)
Afrikaans
Aragonés
العربية
العربية المغربية
অসমীয়া
گؤنئی آذربایجان
Azərbaycan dili
Беларуская мова
Български
বাংলা
Bosanski
Català
Cebuano
Čeština
Cymraeg
Dansk
Deutsch (Österreich)
Deutsch (Schweiz)


Inbox (2,747) - dhushettisrivars
Instances | EC2 | eu-north-1
EC2 Instance Connect
WordPress › Installation
Not secure
13.60.179.42/wp-admin/install.php?step=1
Gmail
Maps
YouTube
SAMSUNG Galaxy F...
All Bookmarks
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
project
Username
srivarsha
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.
Password
Varsha$$123@
Hide
Strong
Important: You will need this password to log in. Please store it in a secure location.
Your Email
varshadhushetti@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.


Success!
WordPress has been installed. Thank you, and enjoy!
Username
srivarsha
Password
Your chosen password.
Log In


Username or Email Address
srivarsha
Password
Remember Me
Log In
Lost your password?
← Go to project


Not secure 13.60.179.42/wp-admin/
project
New
Howdy, srivarsha
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
Quick Draft