DEPLOYING A WORDPRESS HOMEPAGE IN MONOLITHIC ARCHITECTURE

Description:

- Create 1 EC2 Instance and Deploy wordpress and MYSQL on that Instance.

- Configure the Security Group for your instances.

- EC2 instance type: t2-micro, and USE AMI: Ubuntu

- Create a welcome page in wordpress that will be the homepage

STEPS: 1. Log in to your AWS Management Console.

2. Navigate to the EC2 Dashboard and click on “Launch Instance”.

3. Give the instance a unique name like “Monolithic_Server”.

4. Select an appropriate Amazon Machine Image (AMI) based on your requirements. For this example, let's choose the latest Ubuntu Server.

5. Choose the instance type according to your needs. We'll go with a t2.micro(Free Tier) instance.

6. Configure instance details including the number of instances, network settings, and storage. Ensure to create or select a security group that permits inbound traffic on HTTP (port 80) and SSH (port 22).

7. Review the configurations and click on the “Launch Instance” button. This setup should get you started with your EC2 instance running a WordPress server on a monolithic architecture.

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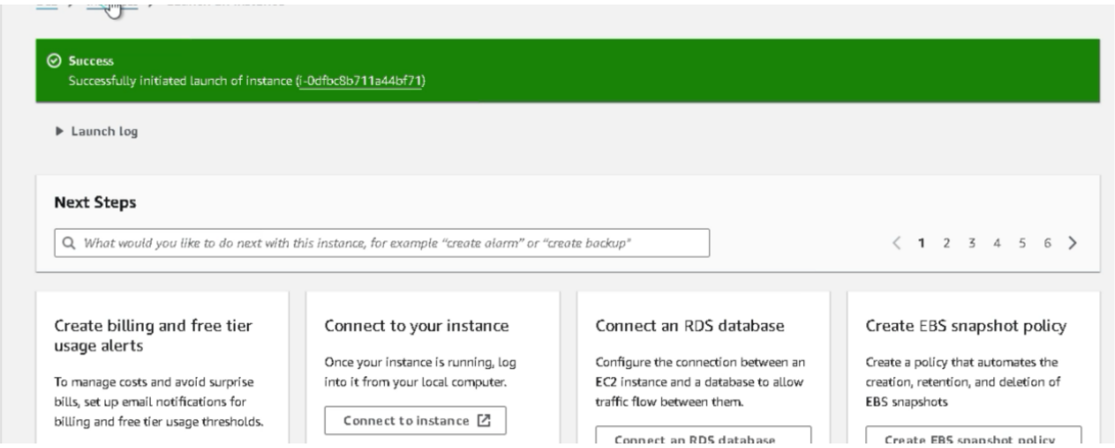


Success

Successfully initiated launch of instance (i-0dfbc8b711a44bf71)

Next Steps

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.

Connect to your instance

Once your instance is running, log into it from your local computer.

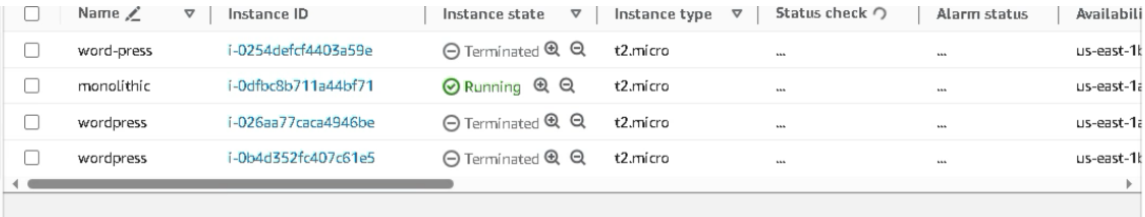
Connect an RDS database

Configure the connection between an EC2 instance and a database to allow traffic flow between them.

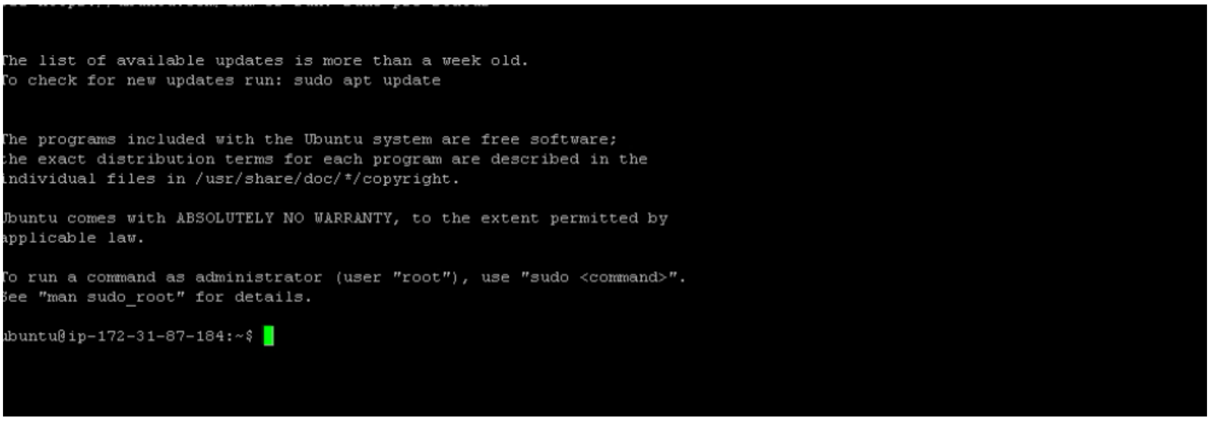
Create EBS snapshot policy

Create a policy that automates the creation, retention, and deletion of EBS snapshots

▶ Launch log
What would you like to do next with this instance, for example “create alarm” or “create backup”
‹ 1 2 3 4 5 6 ›
Connect to instance
Connect an RDS database
Create EBS snapshot policy



□	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availabili
□	word-press	i-0254defcf4403a59e	Terminated	t2.micro	...	...	us-east-1b
□	monolithic	i-0dfbc8b711a44bf71	Running	t2.micro	...	...	us-east-1a
□	wordpress	i-026aa77caca4946be	Terminated	t2.micro	...	...	us-east-1a
□	wordpress	i-0b4d352fc407c61e5	Terminated	t2.micro	...	...	us-east-1b



```
he list of available updates is more than a week old.
o check for new updates run: sudo apt update


he programs included with the Ubuntu system are free software;
he exact distribution terms for each program are described in the
ndividual files in /usr/share/doc/*/copyright.

buntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
pplicable law.

o run a command as administrator (user "root"), use "sudo <command>".
ee "man sudo_root" for details.

buntu@ip-172-31-87-184:~$
```

COMMANDS TO FOLLOW:

1. Install Apache server on Ubuntu:

- sudo apt update

- sudo apt install apache2

2. Install PHP runtime and PHP MySQL connector:

- sudo apt install php libapache2-mod-php php-mysql

3. Install MySQL server:

- sudo apt install mysql-server

4. Login to MySQL server:

- sudo mysql -u root

5. Change authentication plugin to mysql_native_password (change the password to something strong):

- ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password by 'vaibhavi12';

6. Create a new database user for WordPress (change the password to something strong):

- CREATE USER 'vaibhavi_user'@'localhost' IDENTIFIED BY 'vaibhavi12';

7. Create a database for WordPress:

- CREATE DATABASE wordpress_Tech;

8. Grant all privileges on the database 'wp' to the newly created user:

- GRANT ALL PRIVILEGES ON wp.* TO 'vaibhavi_user'@'localhost';

- exit;

9. Download WordPress:

- cd /tmp • wget https://wordpress.org/latest.tar.gz

10. Unzip:

- tar -xvf latest.tar.gz

11. Move WordPress folder to Apache document root:

- sudo mv wordpress/ /var/www/html

12. Command to restart/reload Apache server:

- sudo systemctl restart apache2

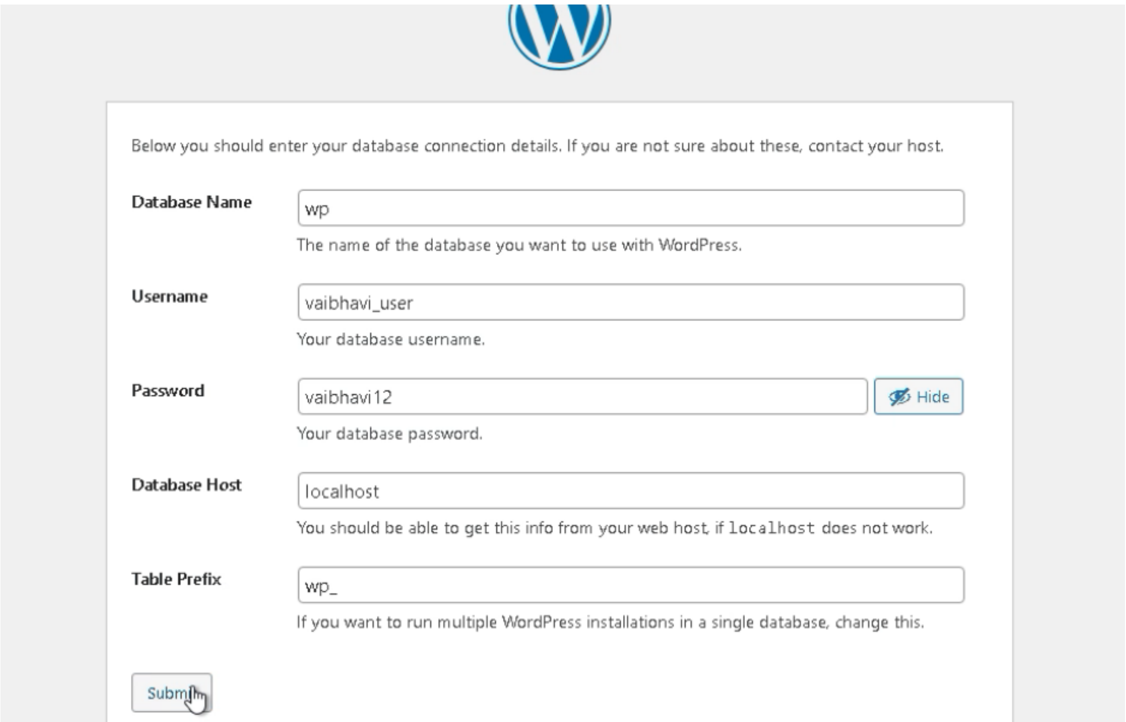
13. Now, navigate to the WordPress directory and configure the wp-config.php file:

- cd /var/www/html/wordpress

- sudo cp wp-config-sample.php wp-config.php

- sudo vim wp-config.php Open your browser and navigate to your WordPress instance's public IP address.

Follow the WordPress installation wizard to complete the setup.



Below you should enter your database connection details. If you are not sure about these, contact your host.

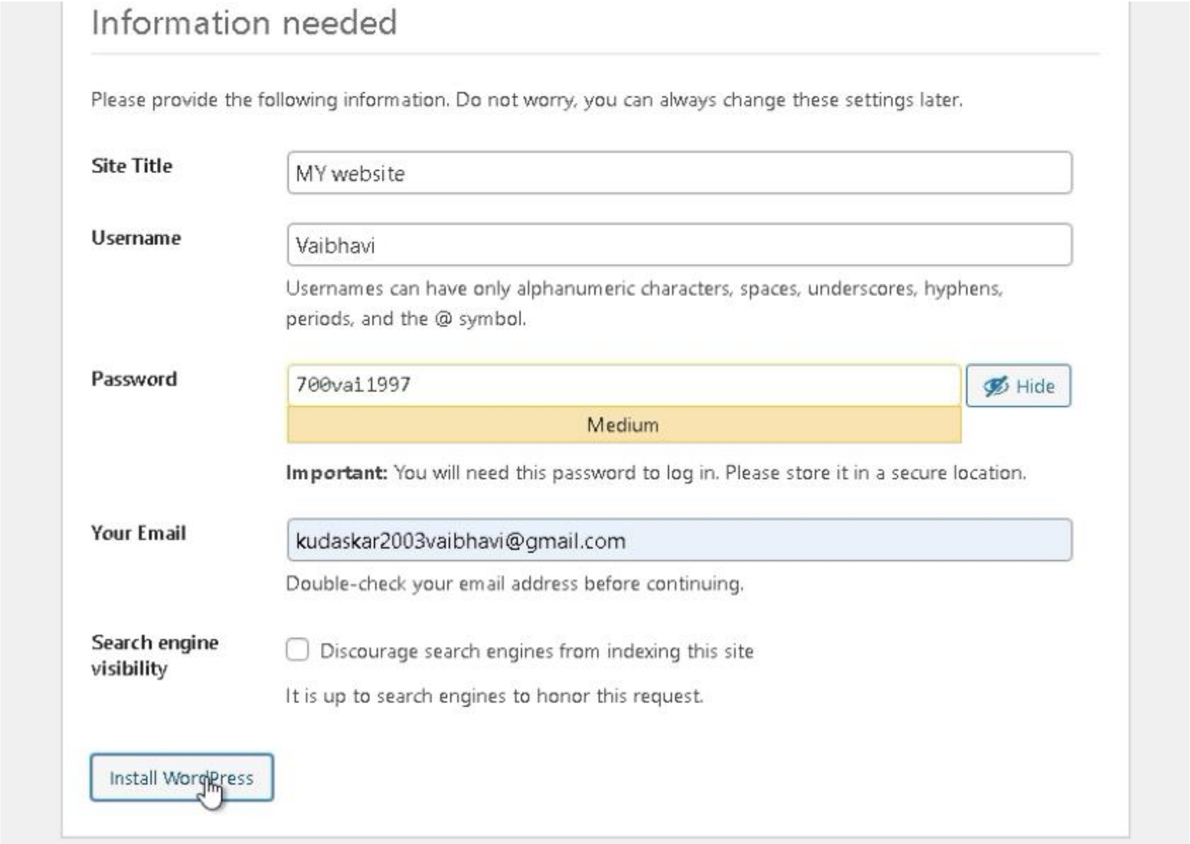
Database Name: wp
The name of the database you want to use with WordPress.

Username: vaibhavi_user
Your database username.

Password: vaibhavi12
Your database password.

Database Host: localhost
You should be able to get this info from your web host, if localhost does not work.

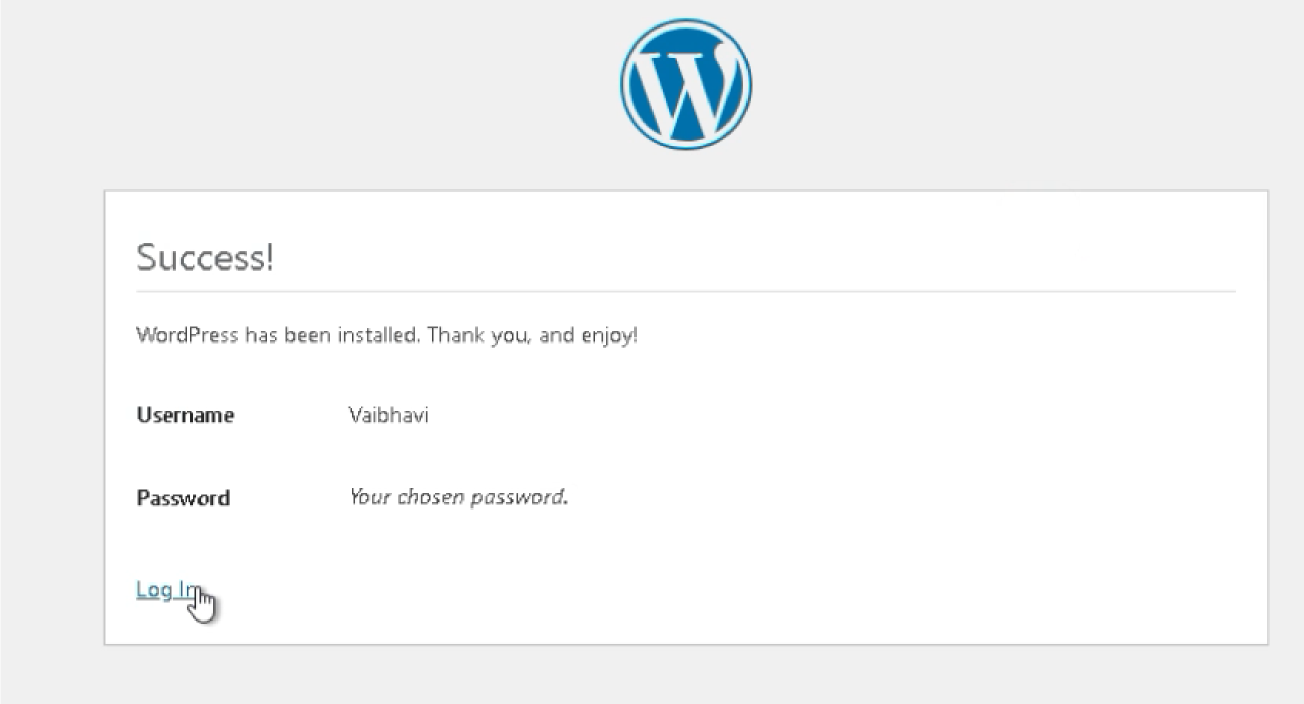
Table Prefix: wp_
If you want to run multiple WordPress installations in a single database, change this.



Information needed

Please provide the following information. Do not worry, you can always change these settings later.

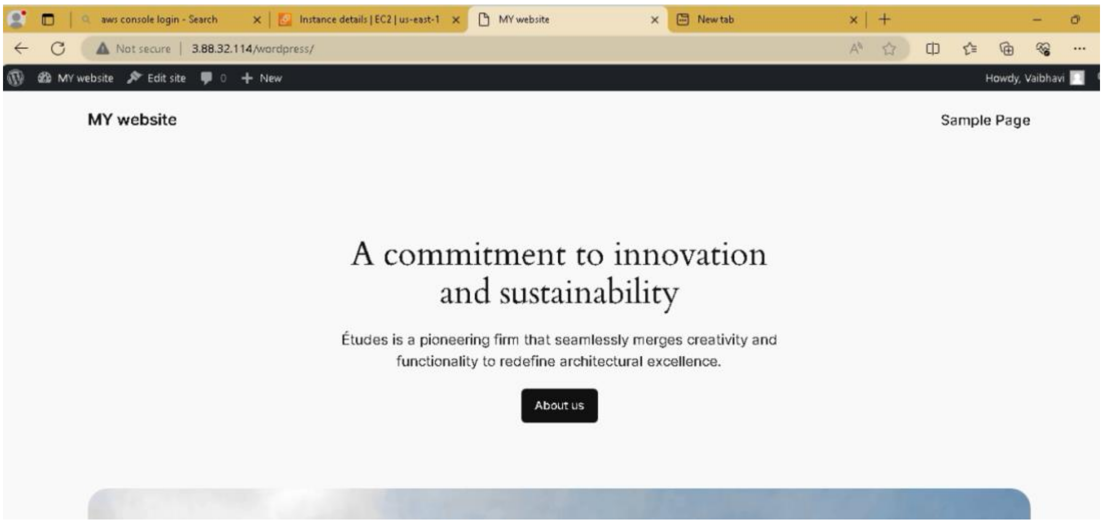
Site Title	MY website
Username	Vaibhavi Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.
Password	700vai1997 Medium **Important:** You will need this password to log in. Please store it in a secure location.
Your Email	kudaskar2003vaibhavi@gmail.com 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	Vaibhavi
Password	*Your chosen password.*


aws console login - Search
Instance details | EC2 | us-east-1
MY website
New tab
Not secure | 3.88.32.114/wordpress/
MY website
Edit site
New
Howdy, Vaibhavi
About us

MY website

Sample Page

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Deploying a WordPress Homepage in Microservice Architecture

Description:

• Setting up Wordpress and MYSQL in two different EC2 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. Creating 2 Instances 1 for Wordpress as well AS 1 for MySQL

(STEPS to create 2 EC2 instances are same)

1. Access your AWS Management Console.

2. Go to the EC2 Dashboard and hit “Launch Instance”.

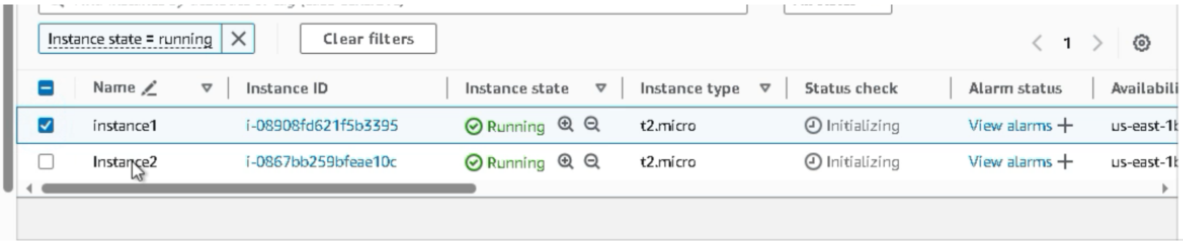
3. Name your instance “Instance1” and "Instance2".

4. Pick an appropriate Amazon Machine Image (AMI). I will Opt for Ubuntu Latest Version.

5. Select the instance type based on your needs. I'll go with a t2.micro(free-tier) instance.

6. Configure instance details like the number of instances, network settings, and storage. Ensure to include a security group allowing inbound traffic on HTTP (port 80), SSH (port 22) & MYSQL (port 3306) .

7. Review your settings and proceed by clicking “Launch instance”.



☐	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availabili
☑	instance1	i-08908fd621f5b3395	Running	t2.micro	Initializing	View alarms +	us-east-1
☐	Instance2	i-0867bb259bfeae10c	Running	t2.micro	Initializing	View alarms +	us-east-1

I Will be Setting Up MYSQL First:

1. Install MySQL on MySQL Instance:

- sudo apt update

- sudo apt install mysql-server

2. Secure MySQL Installation(optional if you want):

- sudo mysql_secure_installation

3. Create MySQL Database:

- mysql -u root -p • ALTER USER 'root'@'localhost' IDENTIFIED BY 'vaibhavi12';

- CREATE DATABASE tech_db;

- CREATE USER 'tech_user'@'%' IDENTIFIED BY 'vaibhavi12';

- GRANT ALL PRIVILEGES ON tech_db.* TO 'tech_user'@'%';

- FLUSH PRIVILEGES;

- Exit

4. Next

- sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf (change bind to address 0.0.0.0)

- systemctl restart mysql

Now Install PHP and Other Dependencies on WordPress Instance:

- sudo apt update

- sudo apt install apache2

- sudo apt install php libapache2-mod-php php-mysql

- sudo systemctl restart apache2

Download WordPress:

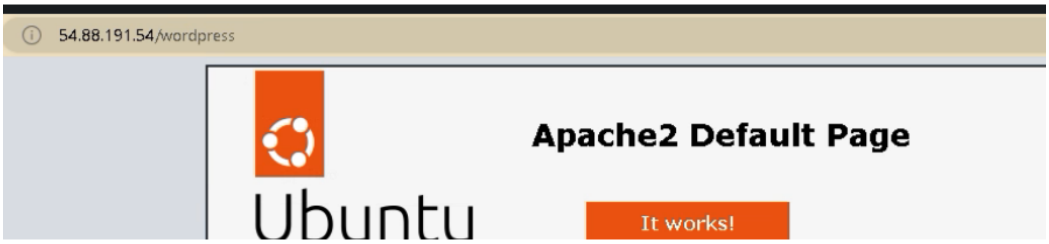
- wget https://wordpress.org/latest.tar.gz

- tar xzvf latest.tar.gz (extract)

- sudo mv wordpress /var/www/html/ (moving wordpress)

- cd /var/www/html/wordpress (changing directory)

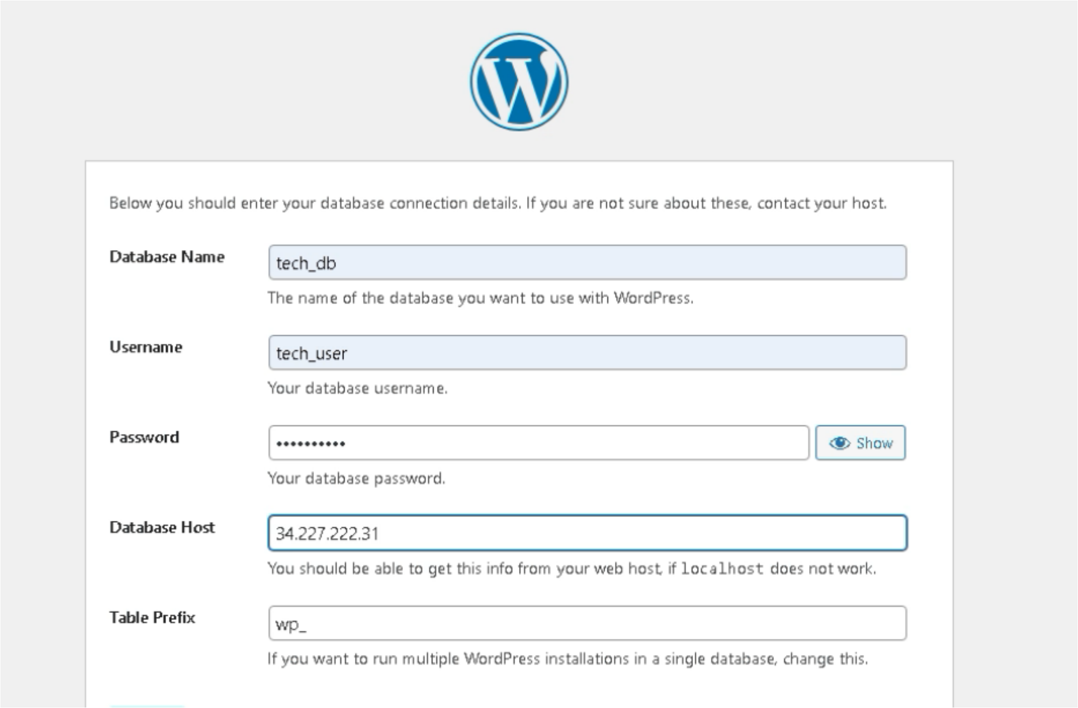
3.Update the database settings: In the Browser, enter public ip of web server ex: 8.8.8.8/wordpress to finish setup



54.88.191.54/wordpress

Apache2 Default Page

It works!



Below you should enter your database connection details. If you are not sure about these, contact your host.

Database Name tech_db
The name of the database you want to use with WordPress.

Username tech_user
Your database username.

Password ••••••••••
Your database password.

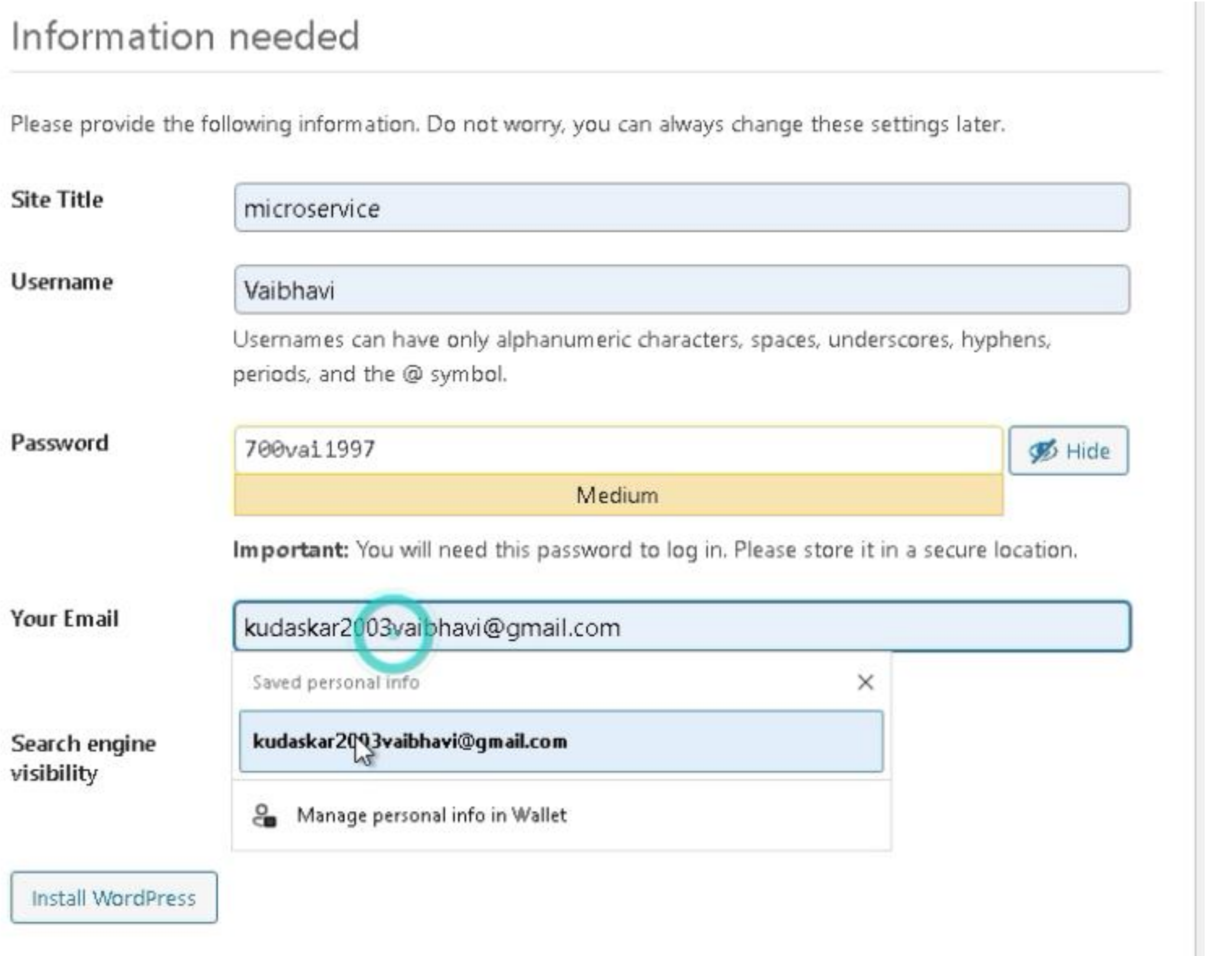
Database Host 34.227.222.31
You should be able to get this info from your web host, if `localhost` does not work.

Table Prefix wp_
If you want to run multiple WordPress installations in a single database, change this.

4.Now

- vim wp-config.php (create file and paste the configuration rules in this file)
- sudo systemctl restart apache2

Browse with your public IP/wordpress. Wordpress will automatically connect to the MySQL server on another EC2.



Information needed

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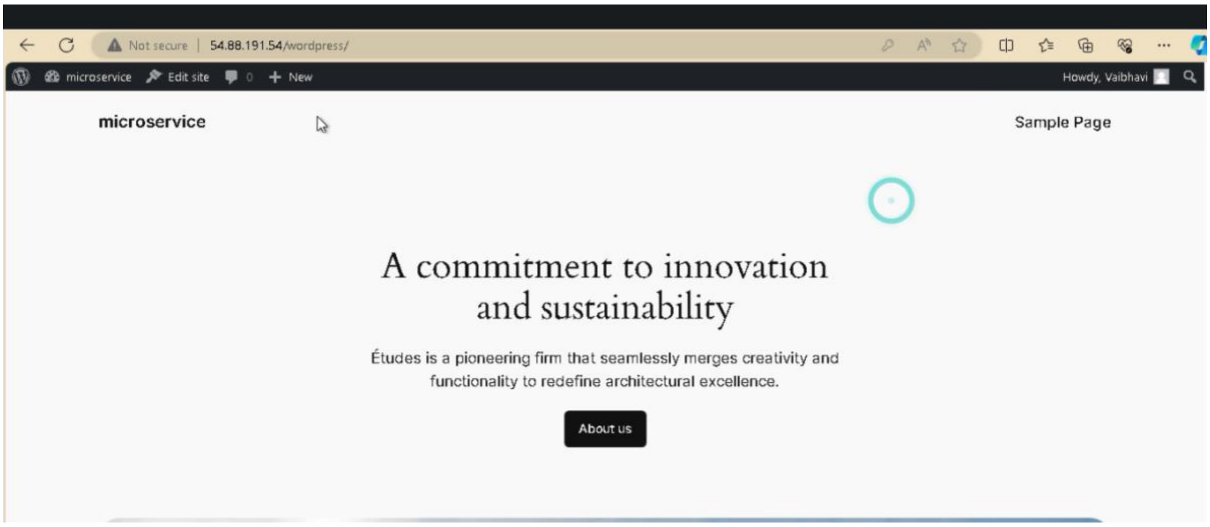
Username	Vaibhavi Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.
Password	700vai1997 Medium **Important:** You will need this password to log in. Please store it in a secure location.
Your Email	kudaskar2003vaibhavi@gmail.com
Search engine visibility	

Hide
Saved personal info
kudaskar2003vaibhavi@gmail.com
Manage personal info in Wallet
Install WordPress



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