DEPLOYING A WORDPRESS HOMEPAGE IN MONOLITHIC ARCHITECTURE

STEPS:

• 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 name like “Monolithic”

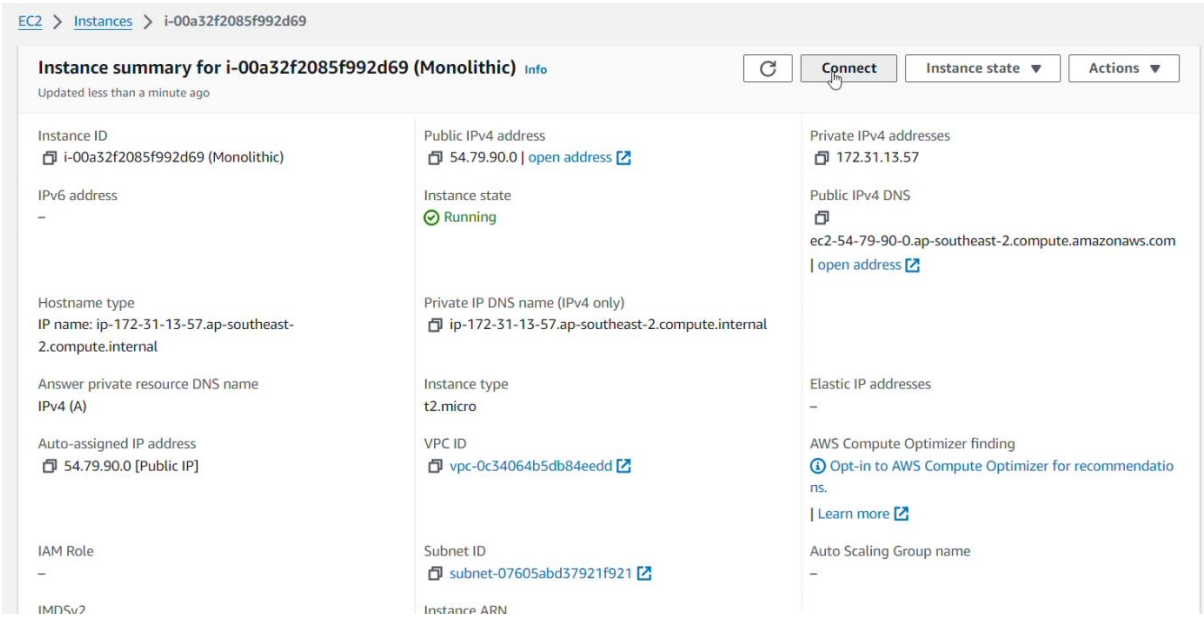
4. Select an appropriate Amazon Machine Image (AMI) based on your requirements. For this example, let's choose the latest Ubuntu Server.

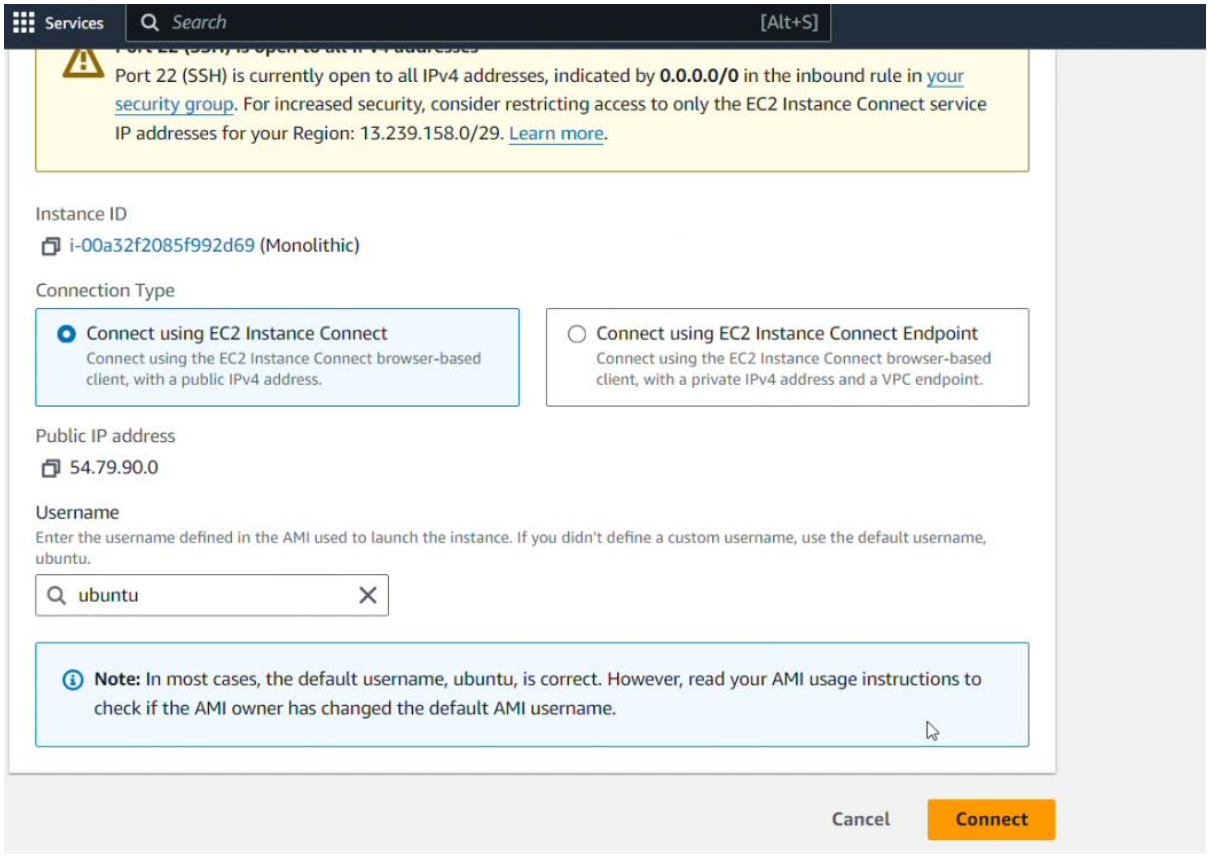
5. Choose the instance type according to your needs. We'll go with a t2.micro(Free Tier) instance.

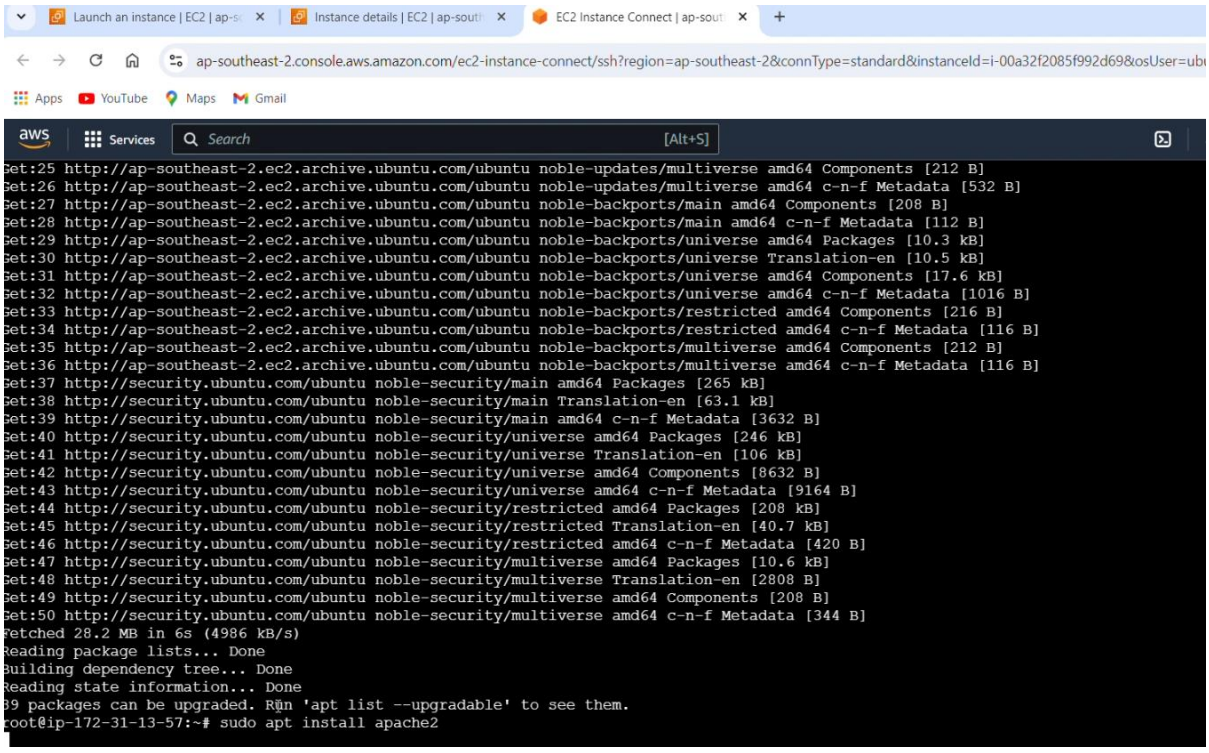
6. Configure instance details including the number of instances, network settings, and storage. Ensure to create or select a security group that permits inbound traffic on HTTP (port 80) and SSH (port 22).

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.

This setup should get you started with your EC2 instance running a WordPress server on a monolithic architecture




Services
Search
[Alt+S]
Port 22 (SSH) is currently open to all IPv4 addresses, indicated by 0.0.0.0/0 in the inbound rule in your security group. For increased security, consider restricting access to only the EC2 Instance Connect service IP addresses for your Region: 13.239.158.0/29. Learn more.
Instance ID
i-00a32f2085f992d69 (Monolithic)
Connection Type
Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.
Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.
Public IP address
54.79.90.0
Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.
ubuntu
Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.
Cancel
Connect


Launch an instance | EC2 | ap-s
Instance details | EC2 | ap-south
EC2 Instance Connect | ap-sout
ap-southeast-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-southeast-2&connType=standard&instanceId=i-00a32f2085f992d69&osUser=ub
Apps
YouTube
Maps
Gmail
aws
Services
Search
[Alt+S]
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Get:26 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [532 B]
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Get:35 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:36 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:37 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [265 kB]
Get:38 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [63.1 kB]
Get:39 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [3632 B]
Get:40 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [246 kB]
Get:41 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [106 kB]
Get:42 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [8632 B]
Get:43 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [9164 B]
Get:44 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [208 kB]
Get:45 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [40.7 kB]
Get:46 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [420 B]
Get:47 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [10.6 kB]
Get:48 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [2808 B]
Get:49 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Get:50 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [344 B]
Fetched 28.2 MB in 6s (4986 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
39 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@ip-172-31-13-57:~# sudo apt install apache2

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 'Akshay@123';

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

- CREATE USER 'vaibhavi_user'@'localhost' IDENTIFIED BY ' Akshay@123';

7. Create a database for WordPress:

- CREATE DATABASE wp;

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

- GRANT ALL PRIVILEGES ON wp.* TO 'wp_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

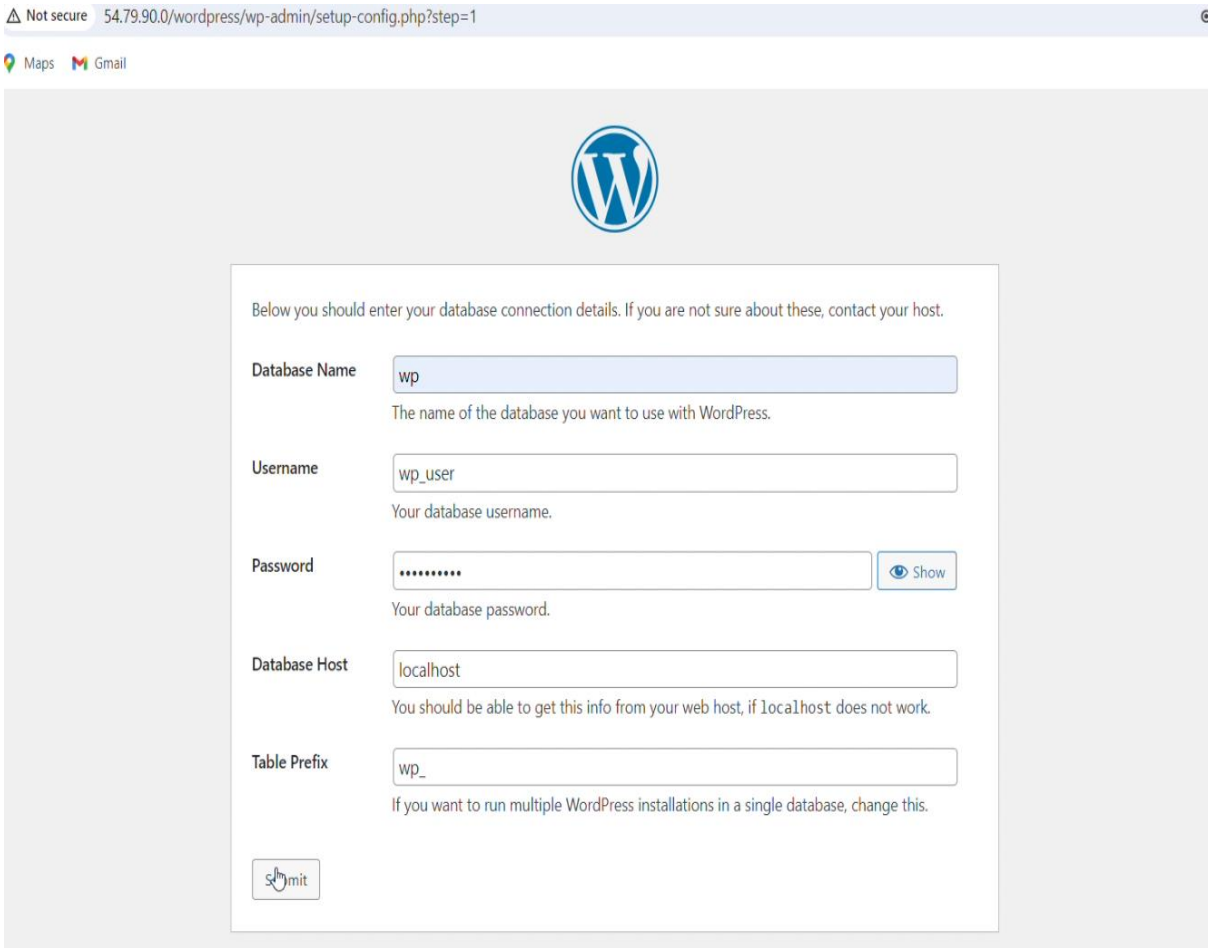
12. Command to restart/reload Apache server:

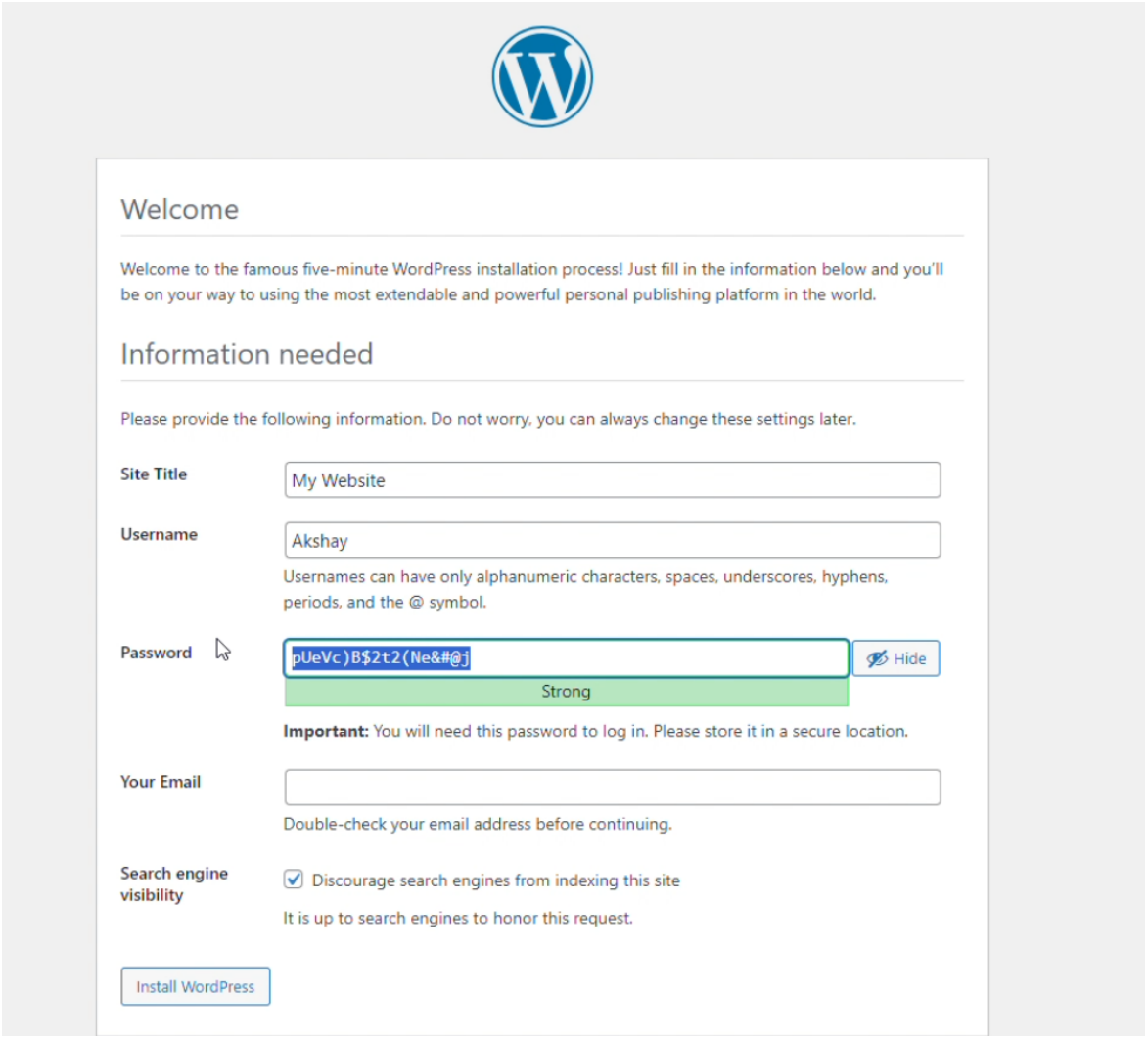
- sudo systemctl restart apache2

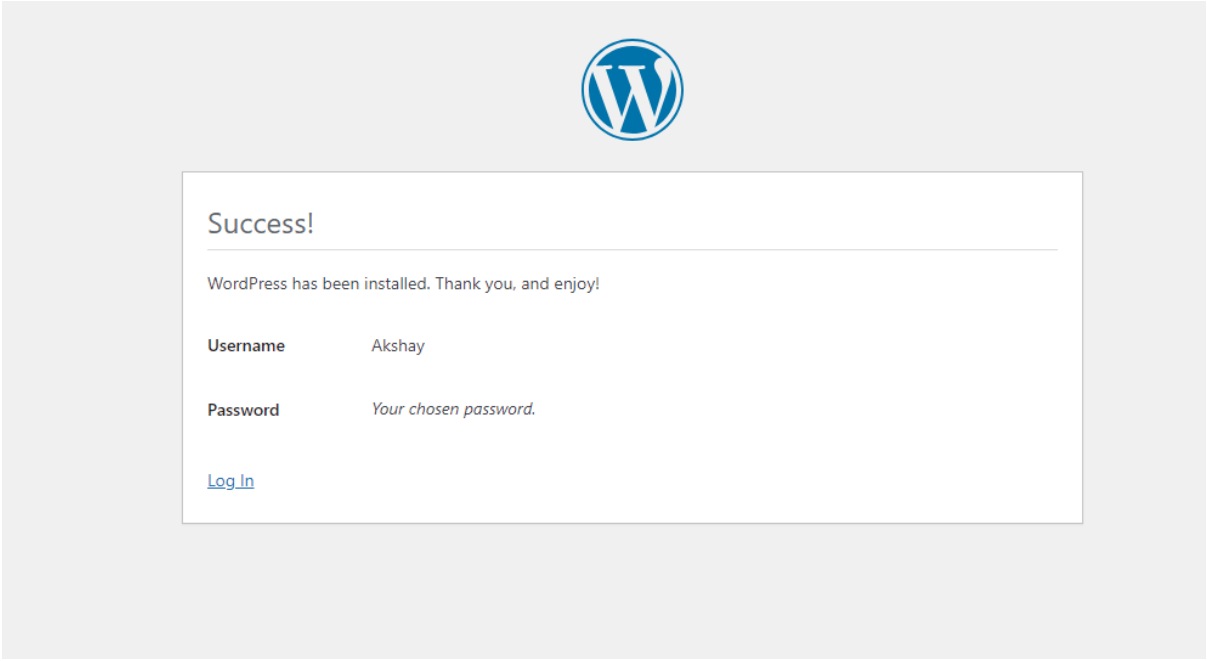
13. Now, navigate to the WordPress directory and configure the wp-config.php file:

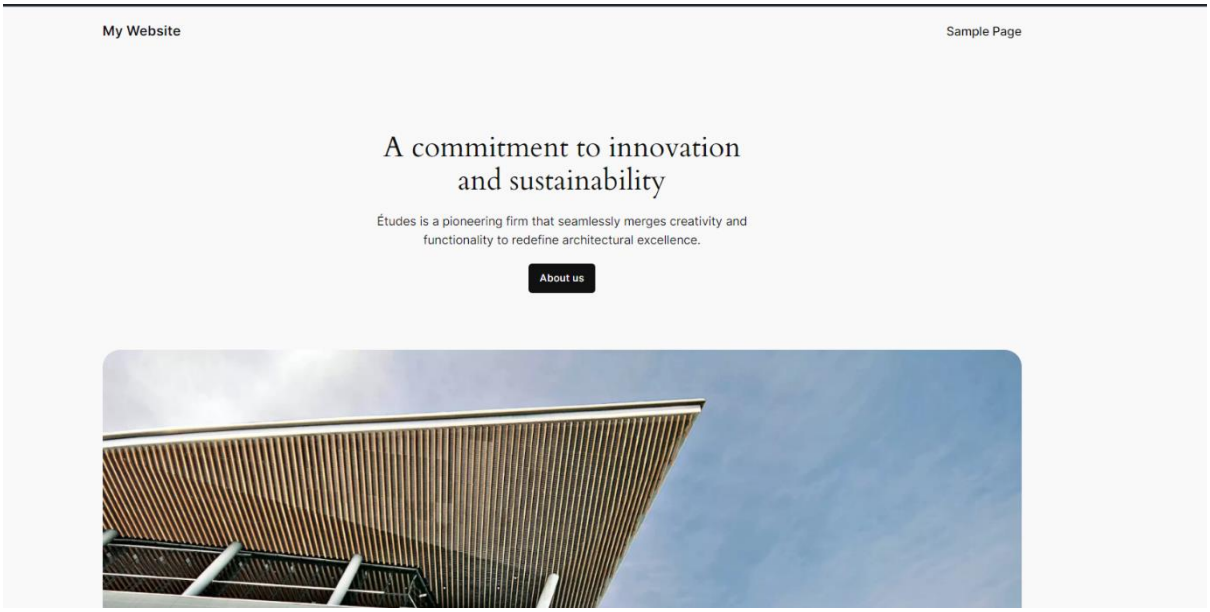
- cd /var/www/html/wordpress
- sudo cp wp-config-sample.php wp-config.php
- sudo vim wp-config.php Open your browser and navigate to your WordPress instance's public IP address.

Follow the WordPress installation wizard to complete the setup.




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
My Website
Username
Akshay
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.
Password
pUeVc)B$2t2(Ne&#@j
Hide
Strong
Important: You will need this password to log in. Please store it in a secure location.
Your Email
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


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



DEPLOYING A WORDPRESS HOMEPAGE IN MONOLITHIC 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”.

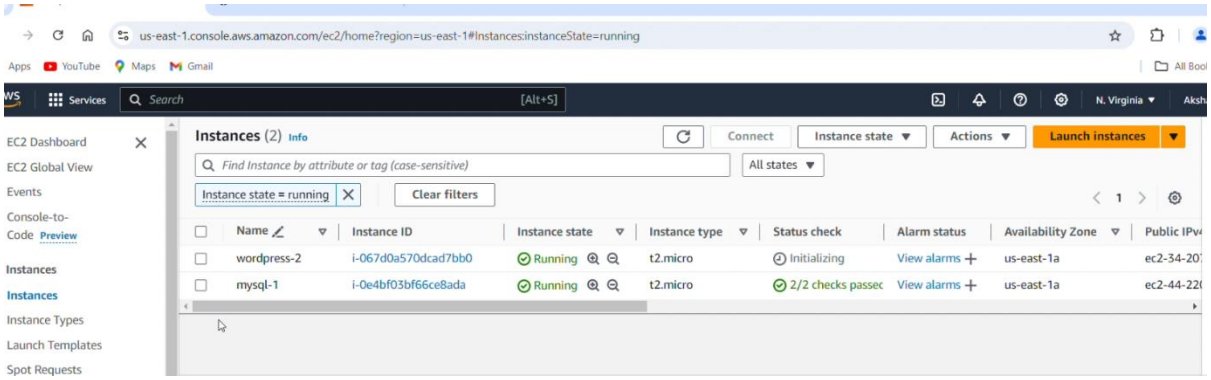
3. Name your instance “ Instance1” and "Instance2".

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”.



I Will be Setting Up mysql-1 First:

1. Install MySQL on MySQL Instance:
- sudo apt install mysql-server -y
- sudo apt update
- sudo apt install apache2 y

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

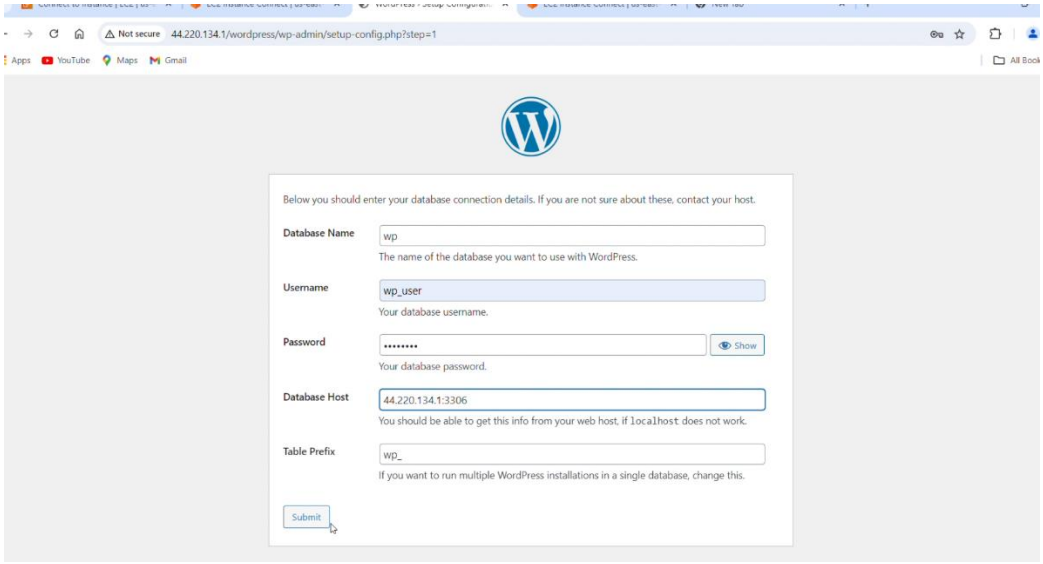
Now Install PHP and Other Dependencies on WordPress Instance:
- sudo apt update
- sudo apt install apache2
- sudo apt install php libapache2-mod-php php-mysql -y
- sudo systemctl restart apache2

Create MySQL Database:
- ALTER USER 'root'@'localhost' IDENTIFIED BY 'Akshay12';
- CREATE DATABASE wp;
- CREATE USER 'wp_user'@'%' IDENTIFIED BY 'Akshay12';
- GRANT ALL PRIVILEGES ON wp.* TO 'wp_user'@'%';
- Exit

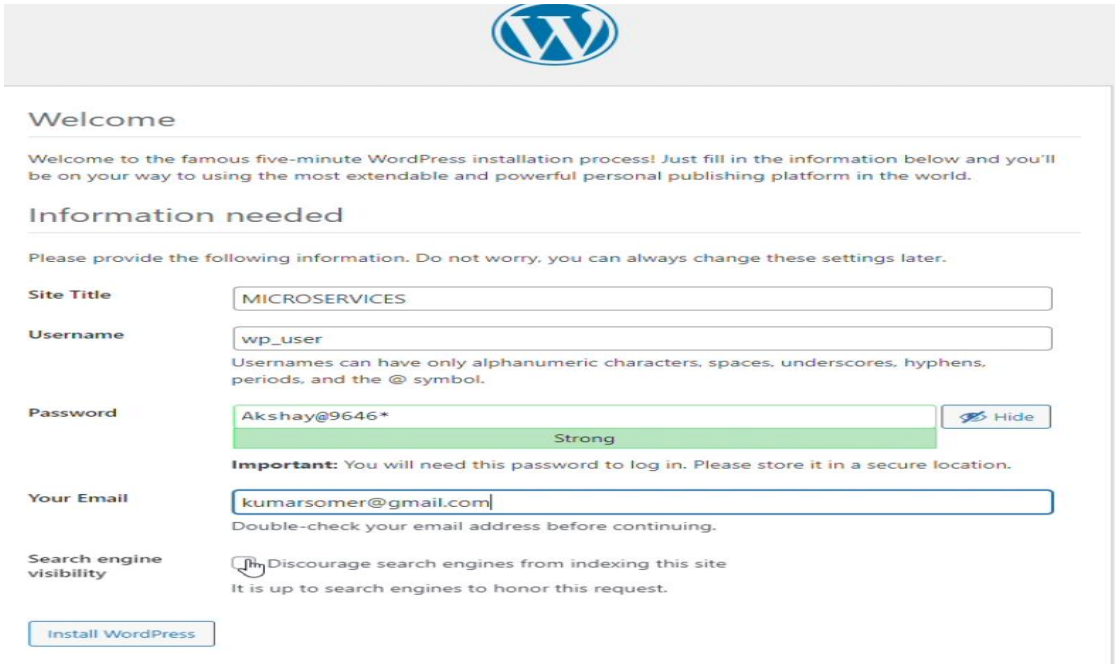
ON Instance 2
- sudo apt update
- sudo apt install apache2 -y
- mysql -u wp user -p -h %
- show DATABASES;
- use wp;
- show tables;
- cd /tmp

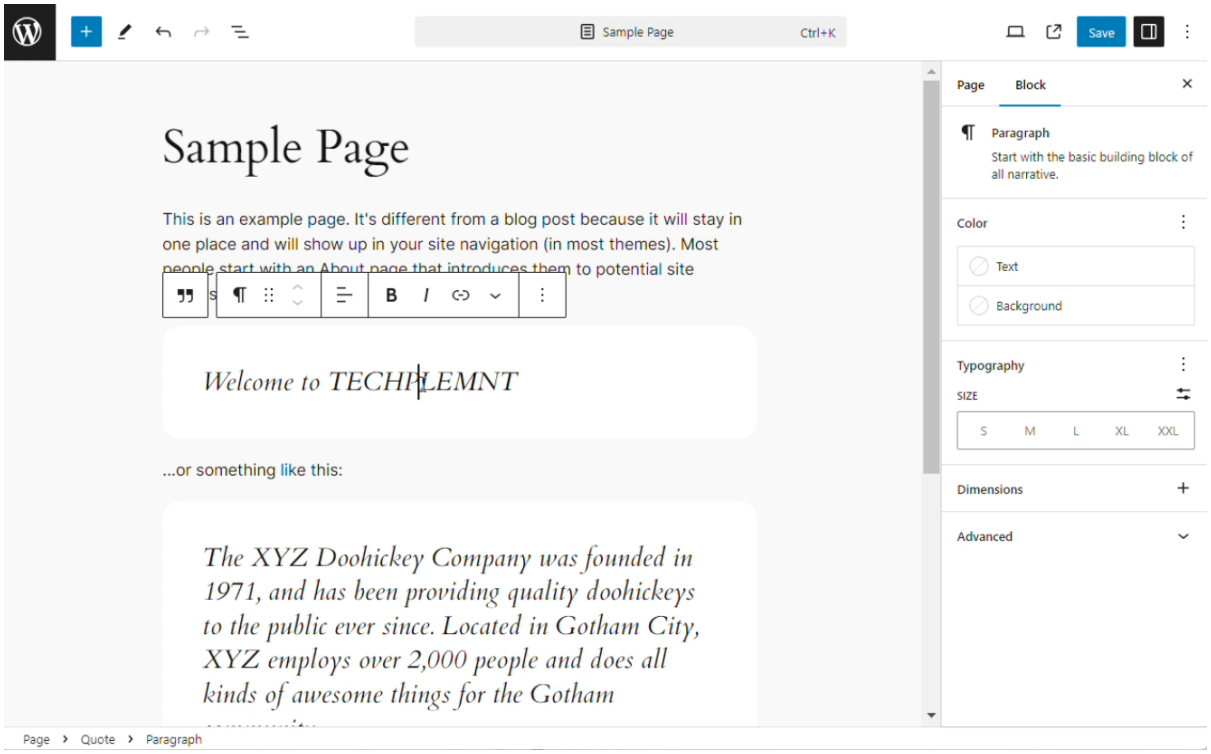
Download WordPress:
- wget https://wordpress.org/latest.tar.gz

•sudo apt install unzip
•unzip latest.zip
• 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



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.




Sample Page
Ctrl+K
Save
Sample Page
This is an example page. It's different from a blog post because it will stay in one place and will show up in your site navigation (in most themes). Most people start with an About page that introduces them to potential site
Welcome to TECHPLEMNT
...or something like this:
The XYZ Doohickey Company was founded in 1971, and has been providing quality doohickeys to the public ever since. Located in Gotham City, XYZ employs over 2,000 people and does all kinds of awesome things for the Gotham
Page
Block
Paragraph
Start with the basic building block of all narrative.
Color
Text
Background
Typography
SIZE
S
M
L
XL
XXL
Dimensions
Advanced
Page › Quote › Paragraph