Deploying WordPress website using monolith: -

For deploying the website (WordPress) using monolith approach is: -

First, we need to create an EC2 Ubuntu(instance) server and install the dependencies for hosting the WordPress website.

- We will take the access of the instance using various methods like using Putty or Command prompt or EC2 Instance connect.
- Now, we will install the LAMP stack in the server and WordPress as well.

We will use the following command for installing the dependencies: -

apt update && apt upgrade

apt install apache2

 systemctl status apache2

https://ip-address

 apt install mariadb-server mariadb-client

$ mysql_secure_installation

Y

 Y

 Y

Y

apt install php php-mysql

vim /var/www/html/info.php

https://ip-address/info.php

$ mysql -u root -p

CREATE DATABASE wordpress_db;

CREATE USER 'wp_user'@'localhost' IDENTIFIED BY 'password';

GRANT ALL ON wordpress_db.* TO 'wp_user'@'localhost' IDENTIFIED BY 'password';

FLUSH PRIVILEGES;

Exit;

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

tar -xvf latest.tar.gz

cp -R wordpress /var/www/html/

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

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

$ mkdir /var/www/html/wordpress/

wp-content/uploads

chown -R www-data:www-data /var/www/html/wordpress/wp-content/uploads/

https://server-ip/wordpress

And now============

Database Name: wordpress_

db Username: wp_user

 Password: password

Database Host: localhost

t Table Prefix: wp_

Now hit "Submit"

Site Title: your title

Username: vigyan

Password: xveers

 scroll down and hit install Now login with Username "vigyan" and password "xveers"

Screenshot 1 — EC2 Launch Instance

Key pair name - *required*

ubuntu_key

Create new key pair

▼ Network settings   Info   Edit

Network   Info
vpc-00a526f8d91bdd192

Subnet   Info
No preference (Default subnet in any availability zone)

Auto-assign public IP   Info
Enable

Firewall (security groups)   Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

○ Create security group   ○ Select existing security group

We'll create a new security group called 'launch-wizard-3' with the following rules:

☑ Allow SSH traffic from
Helps you connect to your instance
Anywhere
0.0.0.0/0

☑ Allow HTTPS traffic from the internet

▼ Summary

Number of instances   Info
1

Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-078c1149d8ad719a7

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Cancel   Launch instance

Review commands

Screenshot 2 — Connect to instance

Connect to instance   Info

Connect to your instance i-082cc05aa9caac30d (ubuntu) using any of these options

EC2 Instance Connect   Session Manager   SSH client   EC2 serial console

Instance ID
i-082cc05aa9caac30d (ubuntu)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is ubuntu_key.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
   chmod 400 ubuntu_key.pem
4. Connect to your instance using its Public DNS:
   ec2-13-215-253-248.ap-southeast-1.compute.amazonaws.com

✓ Command copied

ssh -i "ubuntu_key.pem" ubuntu@ec2-13-215-253-248.ap-southeast-1.compute.amazonaws.com

ⓘ **Note:** In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel

Screenshot 3 — Terminal

```
systemctl restart getty@tty1.service
systemctl restart networkd-dispatcher.service
systemctl restart unattended-upgrades.service
systemctl restart user@1000.service

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

root@ip-172-20-25:~#
root@ip-172-20-25:~# apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap
  liblua5.3-0 mailcap mime-support ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser bzip2-doc
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap
  liblua5.3-0 mailcap mime-support ssl-cert
0 upgraded, 13 newly installed, 0 to remove and 4 not upgraded.
Need to get 2139 kB of archives.
After this operation, 8518 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libapr1 amd64 1.7.0-8ubuntu0.22.04.1
[108 kB]
0% [1 libapr1 0 B/108 kB 0%]
```