Deploying WordPress website using Microservices: -

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

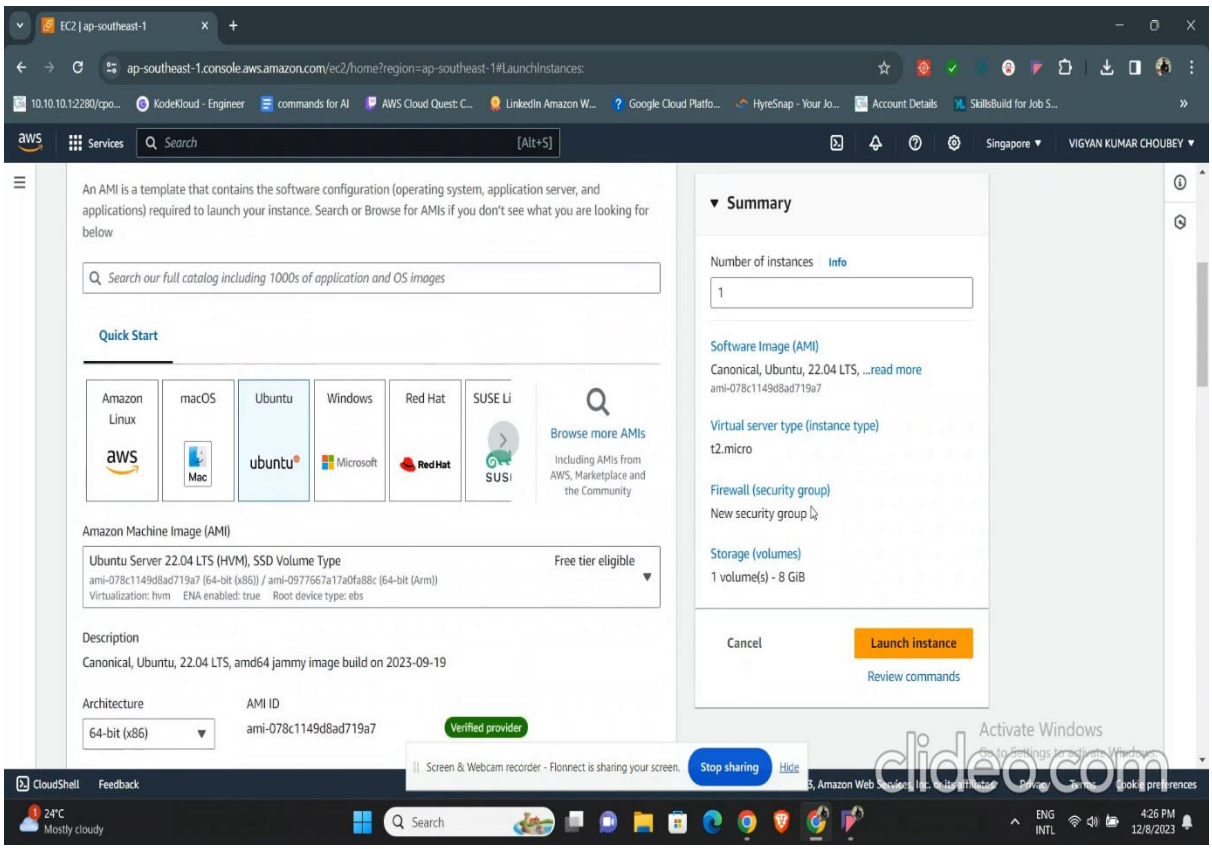
First, we need to create two EC2 Ubuntu(instance) servers and install the dependencies for hosting the WordPress website and another for the database server.

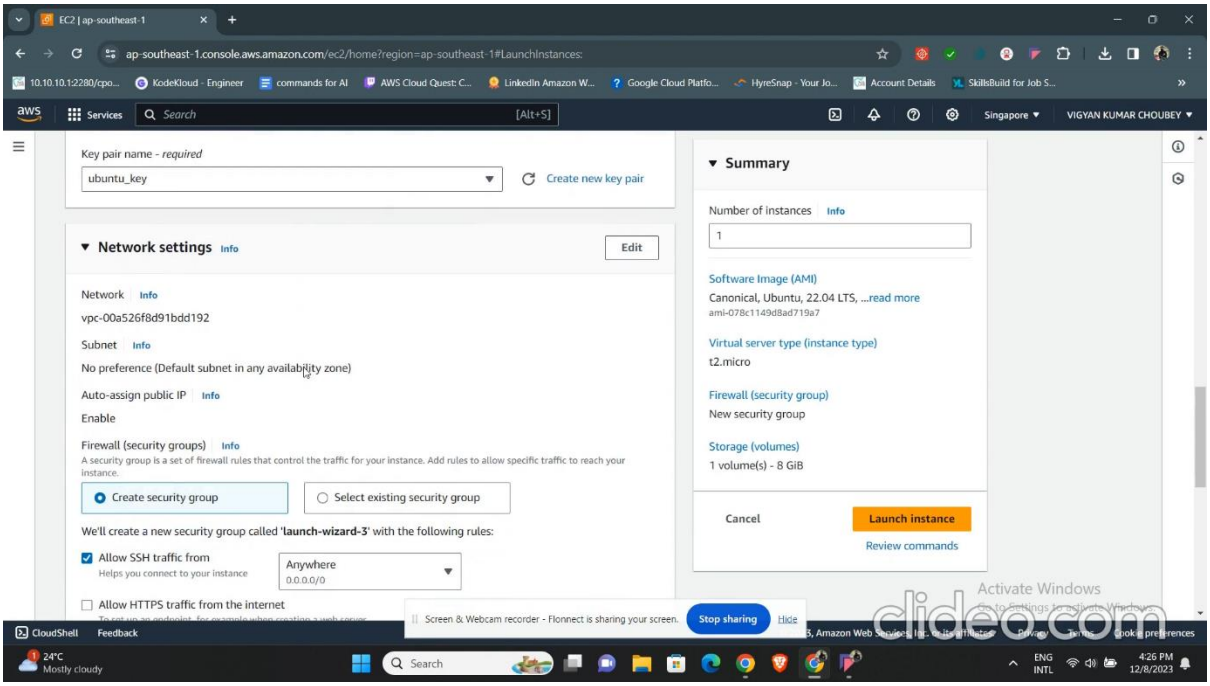
- We will take the access of the instance using various methods like using Putty or Command prompt or EC2 Instance connect.
- Now, we will install the LAMP stack in the server and WordPress as well.

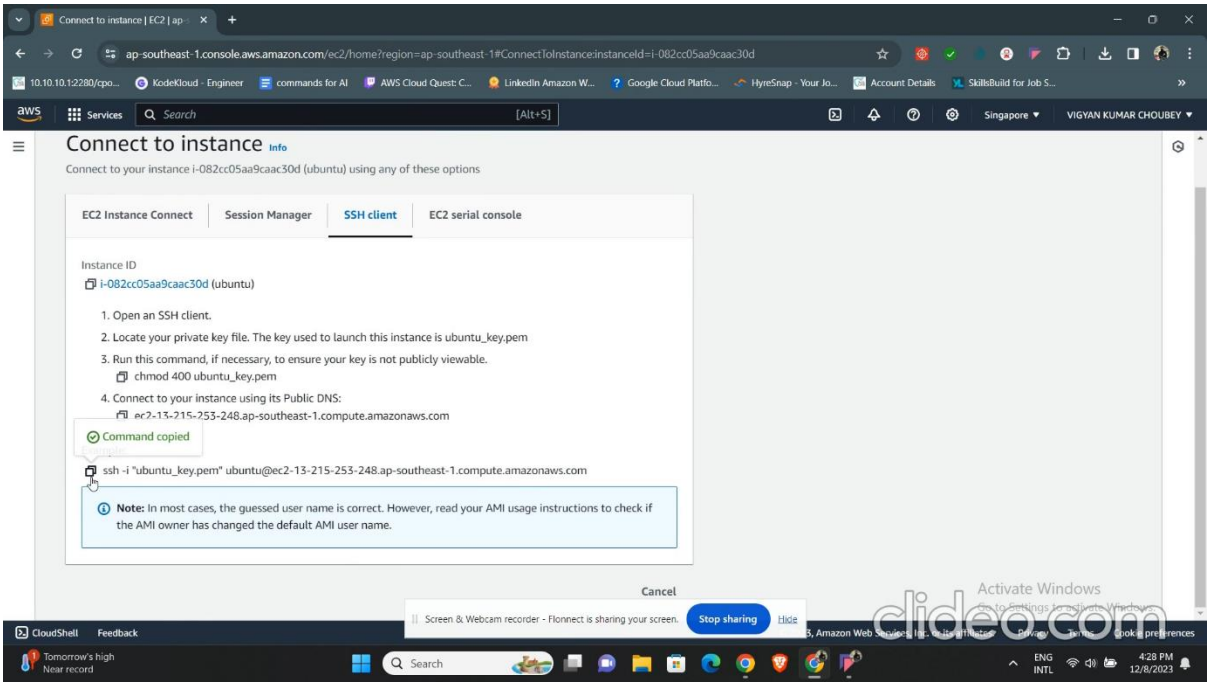
We will use the following command for installing the dependencies: -

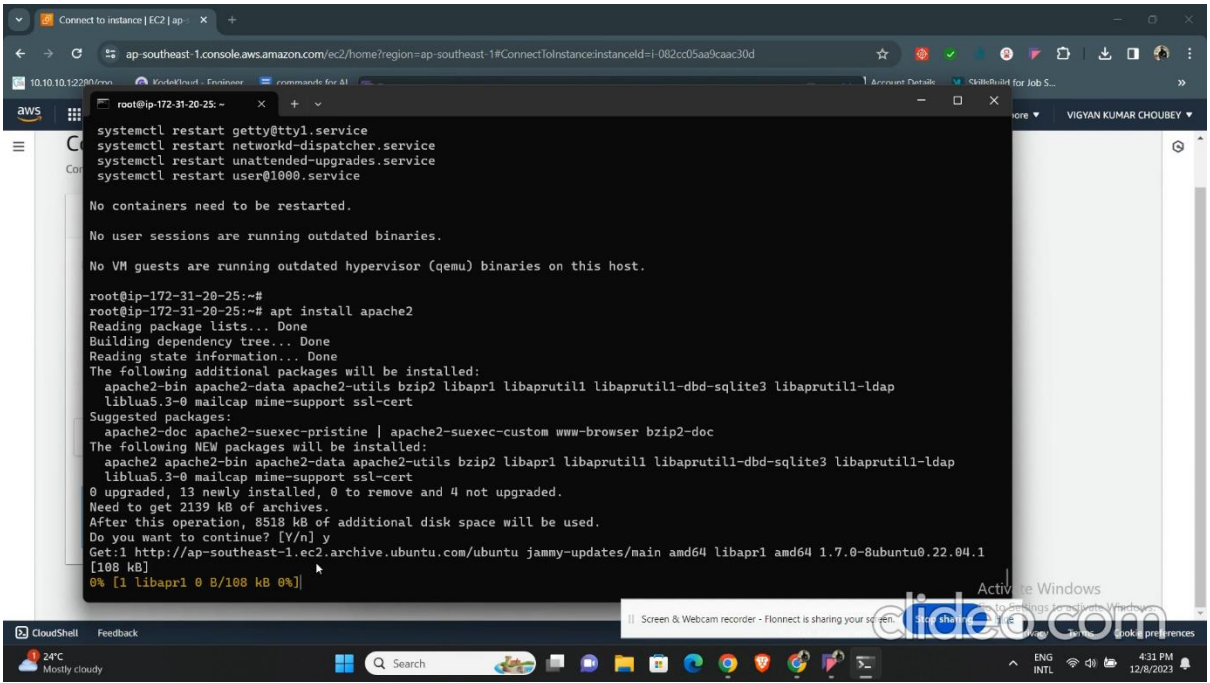
- apt update && apt upgrade
- apt install apache2
- systemctl status apache2
- apt install php libapache2-mod-php php-mysql
- apt install mysql-server
- mysql -u root
- ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'password123';
- CREATE USER 'wp_user'@'localhost' IDENTIFIED BY 'password123'
- CREATE DATABASE wp;
- GRANT ALL PRIVILEGES ON wp.* TO 'wp_user'@localhost;
- cd /tmp

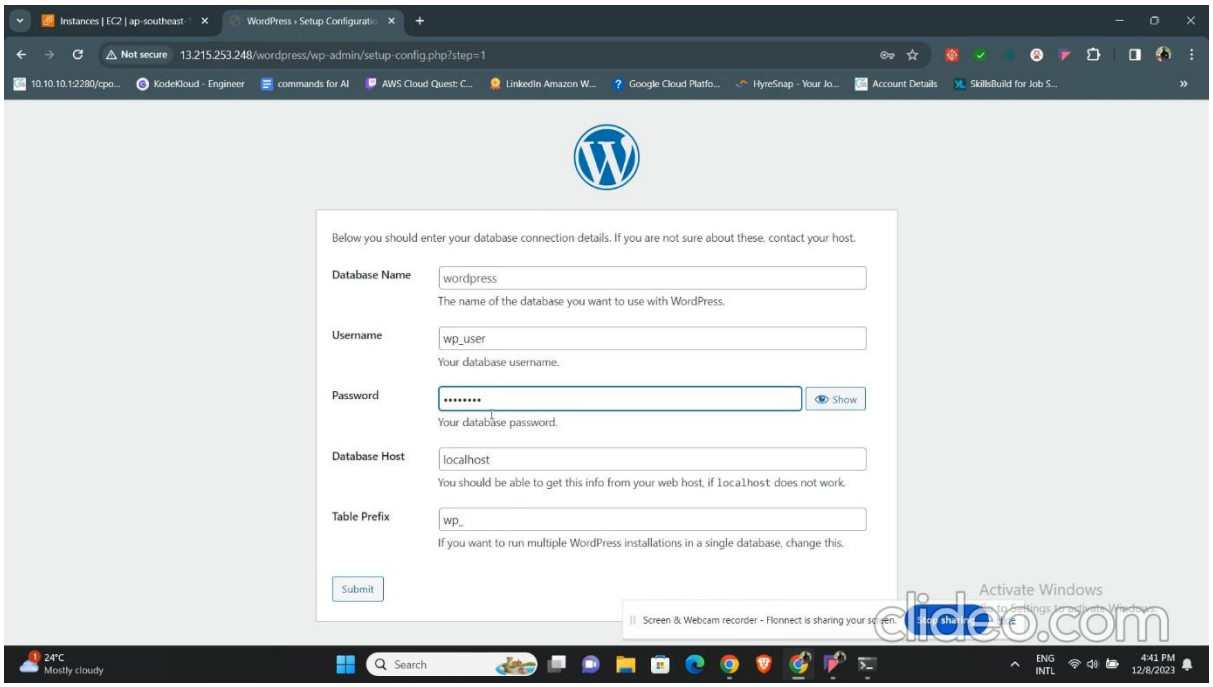
- wget https://wprdpress.org/latest.tar.gz
- tar -xvf latest.tar.gz mv wordpress/ /var/www/html/ cd /var/www/html/
- https://server-ip/wordpress
- And now==========
- Database Name: wp
- Username: wp_user
- Password: password123
- Database Host: localhost
- Table Prefix: wp_ Now hit "Submit"
- now in console :==
- cd wordpress vi wp-config.php
- paste from the page shown in above window :wq
- Site Title: infotrix test Username: vigyan11 Password: xveers
- scroll down and hit install Now login with Username "vigyan11" and password "xveers

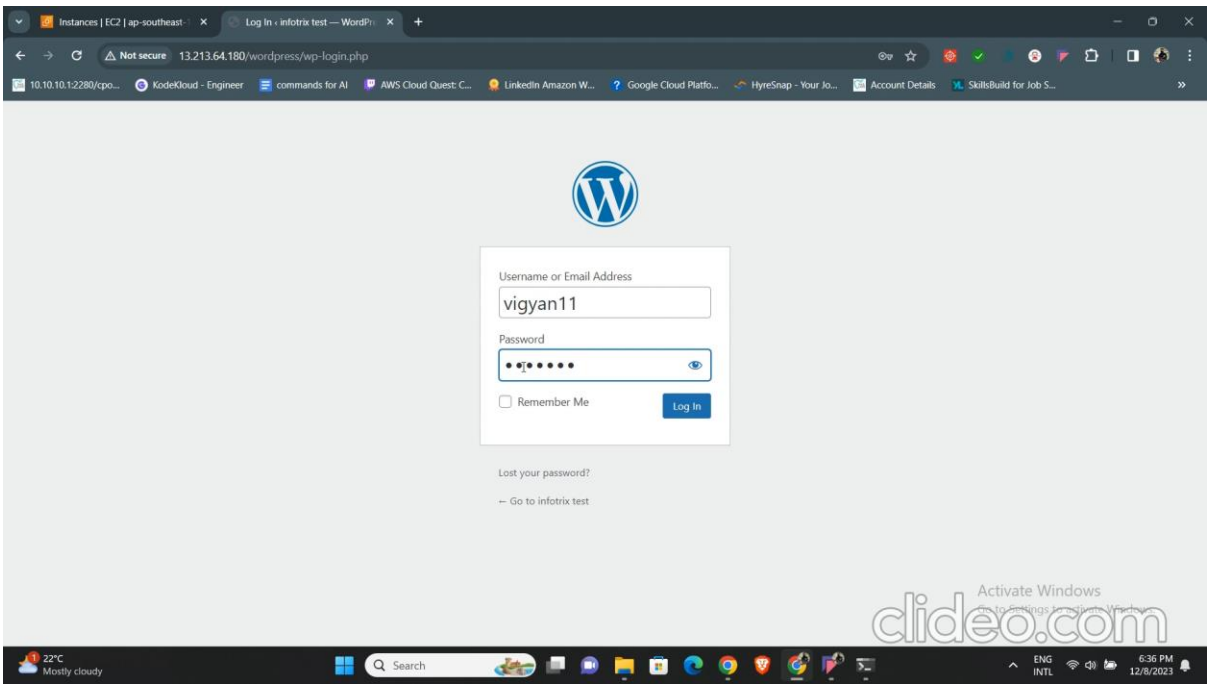


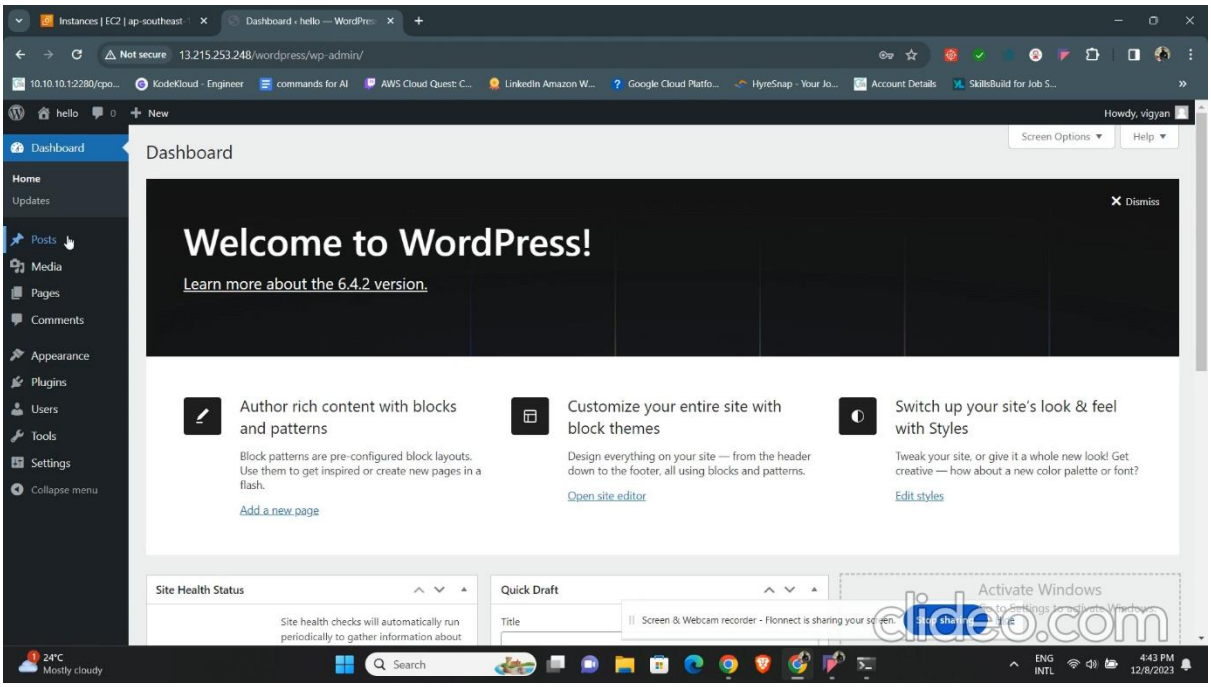

EC2 | ap-southeast-1
ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#LaunchInstances:
Key pair name - required
ubuntu_key
Create new key pair
Network settings Info
Edit
Network Info
vpc-00a526f8d91bdd192
Subnet Info
No preference (Default subnet in any availability zone)
Auto-assign 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
Screen & Webcam recorder - Flonnect is sharing your screen.
Stop sharing
Hide
CloudShell
Feedback
24°C
Mostly cloudy
Search
ENG
INTL
4:26 PM
12/8/2023


Connect to instance | EC2 | ap-
ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#ConnectToInstance:instanceId=i-082cc05aa9caac30d
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
Screen & Webcam recorder - Flonnect is sharing your screen.
Stop sharing
Hide
CloudShell
Feedback
Tomorrow's high
Near record
Search
ENG
INTL
4:28 PM
12/8/2023


root@ip-172-31-20-25: ~
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-172-31-20-25:~#
root@ip-172-31-20-25:~# 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%]
Screen & Webcam recorder - Flonnect is sharing your screen.
CloudShell
Feedback
24°C
Mostly cloudy
Search
ENG
INTL
4:31 PM
12/8/2023


Not secure 13.215.253.248/wordpress/wp-admin/setup-config.php?step=1
Below you should enter your database connection details. If you are not sure about these, contact your host.
Database Name
wordpress
The name of the database you want to use with WordPress.
Username
wp_user
Your database username.
Password
Show
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.
Submit
Activate Windows
clideo.com


Not secure 13.213.64.180/wordpress/wp-login.php
Username or Email Address
vigyan11
Password
Remember Me
Log In
Lost your password?
← Go to infotrix test
Activate Windows
clideo.com


Not secure 13.215.253.248/wordpress/wp-admin/
Howdy, vigyan
Dashboard
Home
Updates
Posts
Media
Pages
Comments
Appearance
Plugins
Users
Tools
Settings
Collapse menu
Screen Options
Help
Welcome to WordPress!
Learn more about the 6.4.2 version.
Dismiss
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
Title
Activate Windows
clideo.com

Now, we will install MySQL to another instance named database server: -

- **Again, we will take access of the database server.**
- **And install all the dependencies for the database installation.**
  We will use the following command for the database installation.

- apt update
- apt install mysql-server
- mysql
- ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'admin123'; CREATE DATABASE mysql_test;
- USE mysql_test;
- CREATE TABLE table1(id int, name varchar(12));
- INSERT INTO TABLE table1 VALUES(1,'Mariya'),(2,'Shyam'),(3,'Radha'),(4,'shreyansh')