

TASK-1

Deployment of WordPress and MySQL in a Monolithic Architecture

Step1 : Install Apache, MySQL, and PHP- Update Packages:

```
sudo apt update
```

```
sudo apt upgrade -y
```

- Install Apache:

```
sudo apt install apache2 -y
```

- Install MySQL:

```
sudo apt install mysql-server -y
```

- Secure MySQL Installation:

```
sudo mysql_secure_installation
```

- Install PHP and Required Extensions:

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

Step 2: Configure MySQL- Log in to MySQL:

```
sudo mysql -u root -p
```

- Create a Database and User:

```
CREATE DATABASE wordpress;  
CREATE USER 'wpuser'@'localhost' IDENTIFIED BY 'varshar';  
GRANT ALL PRIVILEGES ON wordpress.* TO 'wpuser'@'localhost';  
FLUSH PRIVILEGES;  
EXIT;
```

Step 3: Install WordPress- Download WordPress:

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

- Configure WordPress:

```
sudo cp /tmp/wordpress/wp-config-sample.php /tmp/wordpress/wp-config.php  
sudo nano /tmp/wordpress/wp-config.php
```

Update the database details in wp-config.php:

```
define('DB_NAME', 'wordpress');  
define('DB_USER', 'wpuser');
```

```
define('DB_PASSWORD', 'varshasr');
```

```
define('DB_HOST', 'localhost');
```

- Move WordPress Files to Apache Root:

```
sudo cp -r /tmp/wordpress/* /var/www/html/
```

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

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

Step 4: Complete WordPress Installation- Restart Apache:

```
sudo systemctl restart apache2
```

NOW CHECK THE IP ADDRESS

if (APACHE IT WORKS) try this after that

Step 1: Verify WordPress Files- Check if WordPress files are in the correct directory:

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

You should see WordPress files like index.php, wp-config.php, etc.

Step 2: Remove Default Apache Page- Remove the default Apache index.html:

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

Step 1: Restart Apache- Restart Apache:

```
sudo systemctl restart apache2
```

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

- Enable PHP Module:

```
sudo a2enmod php7.4
```

```
sudo systemctl restart apache2
```

Step 2: Check File Permissions- Set Correct Permissions:

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

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

Step 3: Verify Apache Configuration- Check Apache Configuration:

```
sudo nano /etc/apache2/sites-available/000-default.conf
```

Ensure the DocumentRoot is set to /var/www/html.

- Restart Apache:

```
sudo systemctl restart apache2
```

Step 4: Remove Default Apache Page- Remove the default Apache index.html:

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

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#LaunchInstances:

Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags

Name: Add additional tags

Application and OS Images (Amazon Machine Image)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Summary

Number of instances:

Software Image (AMI): Amazon Linux 2023.5.2...read more
ami-0c6da69dd16f45f72

Virtual server type (instance type): t3.micro

Firewall (security group): New security group

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

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Instances:

Instances (1/1)

Find instance by attribute or tag (case-sensitive)

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone |
|-------------------|---------------------|----------------|---------------|--------------|--------------|-------------------|
| monolithic-ins... | i-0628568163329e5a1 | Running | t3.micro | Initializing | View alarms | eu-north-1b |

i-0628568163329e5a1 (monolithic-instance)

Instance summary

Instance ID: i-0628568163329e5a1 (monolithic-instance)

Public IPv4 address: 13.60.179.42 | open address

Private IPv4 addresses: 172.31.36.162

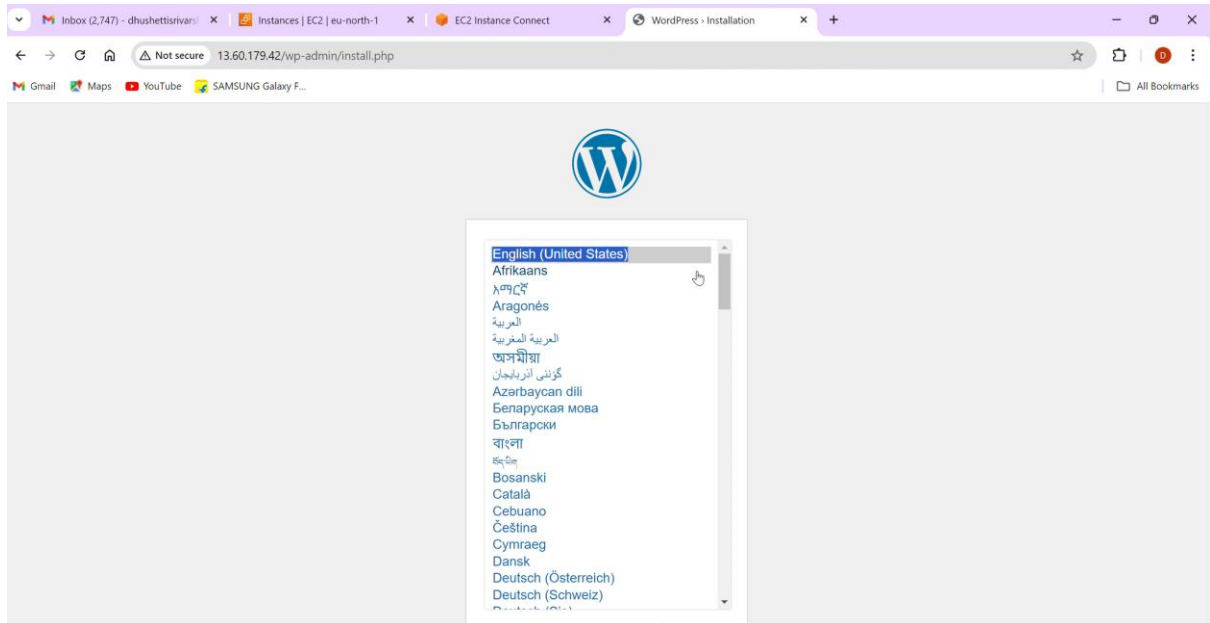
Instance state: Running

Public IPv4 DNS: ec2-13-60-179-42.eu-north-1.compute.amazonaws.com | open address

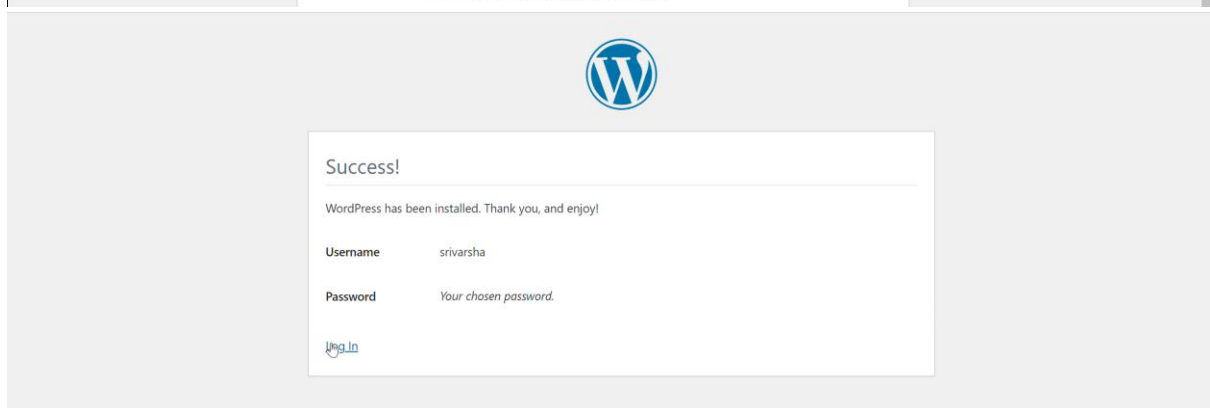
Private IP DNS name (IPv4 only):

eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0628568163329e5a1&osUser=ubuntu®ion=eu-north-1&sshPort=22#

```
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/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
```

This screenshot shows the 'Information needed' step of the WordPress installation process. The page has a 'Welcome' header followed by a brief introduction. The main section is titled 'Information needed' and contains a form with the following fields and options:

- Site Title:** A text input field containing the word 'project'.
- Username:** A text input field containing 'srivarsha'. Below the field, a note states: 'Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.'
- Password:** A text input field containing 'Varsha\$\$123@'. To the right of the field is a 'Hide' button. Below the field, a green bar indicates the password strength as 'Strong'. An 'Important' note below the password field reads: 'Important: You will need this password to log in. Please store it in a secure location.'
- Your Email:** A text input field containing 'varshadhusbetti@gmail.com'. Below the field, a note says: 'Double-check your email address before continuing.'
- Search engine visibility:** A checkbox labeled 'Discourage search engines from indexing this site' is currently unchecked. Below it, a note says: 'It is up to search engines to honor this request.'

The browser's address bar shows the URL '13.60.179.42/wp-admin/install.php?step=1'.



Username or Email Address

srivarsha

Password

••••••••••••••••



☐ Remember Me

Log

[Lost your password?](#)

[← Go to project](#)

Browser tabs: Inbox (2,747) - dhushettisrivarsha, Instances | EC2 | eu-north-1, EC2 Instance Connect, Dashboard - project - WordPress

Address bar: Not secure 13.60.179.42/wp-admin/

Browser extensions: Gmail, Maps, YouTube, SAMSUNG Galaxy F...

WordPress Dashboard Header: Dashboard, Home, Updates, Posts, Media, Pages, Comments, Appearance, Plugins, Users, Tools, Settings, Collapse menu

Dashboard Content:

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

No information yet...

Site health checks will automatically run periodically to gather information about your site. You can also [visit the Site Health screen](#) to gather information about your site now.

Quick Draft

Title

Content

Footer: 26°C Mostly cloudy, Search, Windows taskbar icons, ENG IN, 12:09, 10-09-2024