

# Cloud (AWS) Week 1 Task

**Prerequisites:** AWS account with free-tier access

## Step 1: Launching the EC2 Instance

- Access EC2 Service: Navigate to the AWS Management Console and select Services > Compute > EC2, then click Launch Instances.
- Choose Configuration: Select an Ubuntu-based AMI (e.g., Ubuntu Server 20.04 LTS), choose t2.micro (free-tier eligible), and ensure a public IP is assigned.
- Storage and Tags: Retain the default 8GB storage (or increase if needed) and add a Name tag, such as Name: wordpress-monolithic.
- Set Up Security: Configure inbound rules for HTTP (port 80), HTTPS (port 443), and SSH (port 22). Use 0.0.0.0/0 for testing but restrict to your IP for SSH access.
- Key Pair and Launch: Select or create a key pair for SSH access, review settings, launch the instance, and note its Public IPv4 address or DNS.

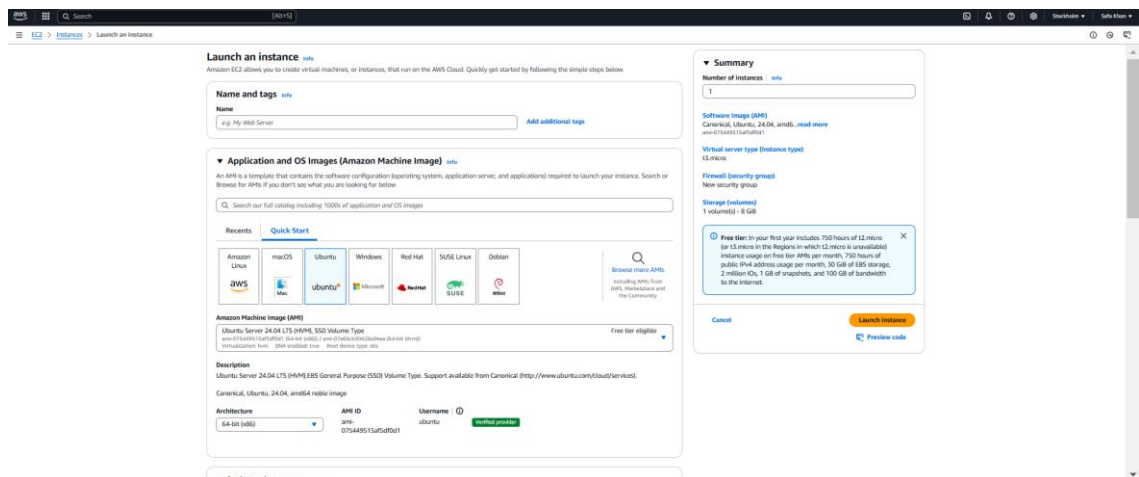


Fig. – EC2 Launch Instance page

## Step 2: Connect to the EC2 Instance

- From your local machine, open a terminal.
- SSH into the instance.

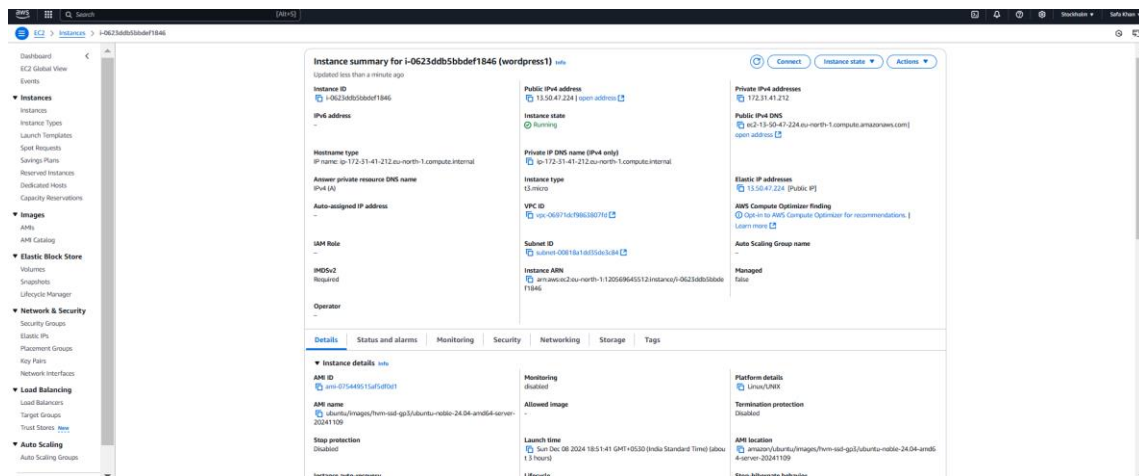


Fig. – EC2 Launch Instance page - Wordpress

### Step 3: Update and Install Required Packages

- Update the package lists and upgrade existing packages.
- Install Apache, PHP, and required extensions.
- Install MySQL Server then run the security script.

### Step 4: Create a MySQL Database and User for WordPress

- Log into MySQL as root.
- Create the WordPress database.
- Create a WordPress user and grant privileges.

### Step 5: Install and Configure WordPress

- Download the latest WordPress package.
- Move WordPress files to the Apache document root.
- Adjust ownership and permissions.
- Create WordPress configuration file.
- Restart Apache.

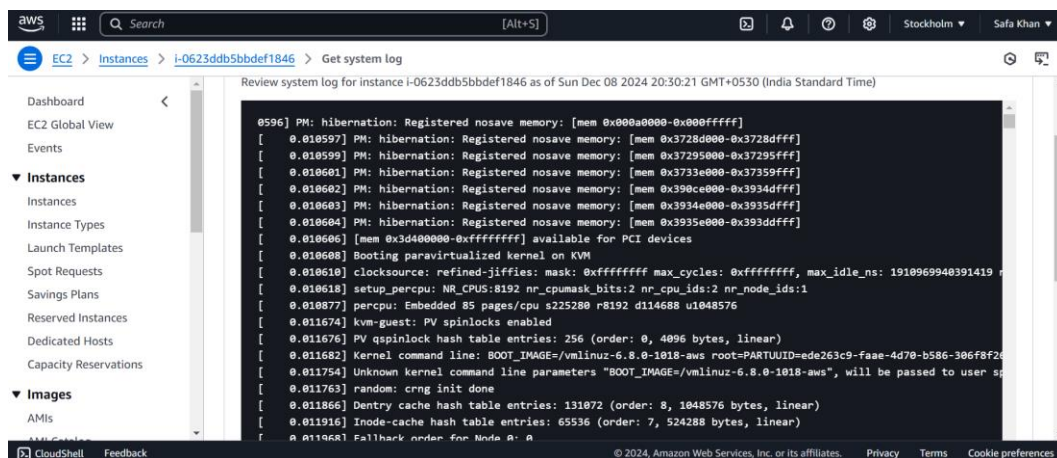


Fig. – System Log

### Step 6: Complete the WordPress Installation via Browser

- Access the Site: Open your browser and navigate to <http://<EC2-Public-IP-Address>/wordpress> (or the root directory if files are located there).
- Run the Installation: Choose your preferred language, Enter details such as site title, admin username, password, and email, Click Install WordPress to complete the setup.
- Log in to Admin Dashboard: Visit <http://<EC2-Public-IP-Address>/wordpress/wp-admin>, and log in using the credentials created during installation.

```
ubuntu@ip-172-31-35-244: /var/www/html/wordpress
GNU nano 7.2 wp-config.php
define( 'DB_NAME', 'wordpress_db' );
define( 'DB_USER', 'wp_user' );
define( 'DB_PASSWORD', 'strongpassword' );
define( 'DB_HOST', 'localhost' );
<?php
/**
 * The base configuration for WordPress
 *
 * The wp-config.php creation script uses this file during the installation.
 * You don't have to use the website, you can copy this file to "wp-config.php"
 * and fill in the values.
 *
 * This file contains the following configurations:
 *
 * * Database settings
 * * Secret keys
 * * Database table prefix
 * * ABSPATH
 *
 * @link https://developer.wordpress.org/advanced-administration/wordpress/wp-config/
 *
 * @package WordPress
 */

// ** Database settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'database_name_here' );

/** Database username */
define( 'DB_USER', 'username_here' );

/** Database password */
define( 'DB_PASSWORD', 'password_here' );

/** Database hostname */
define( 'DB_HOST', 'localhost' );
```

Fig. – Admin Dashboard backend

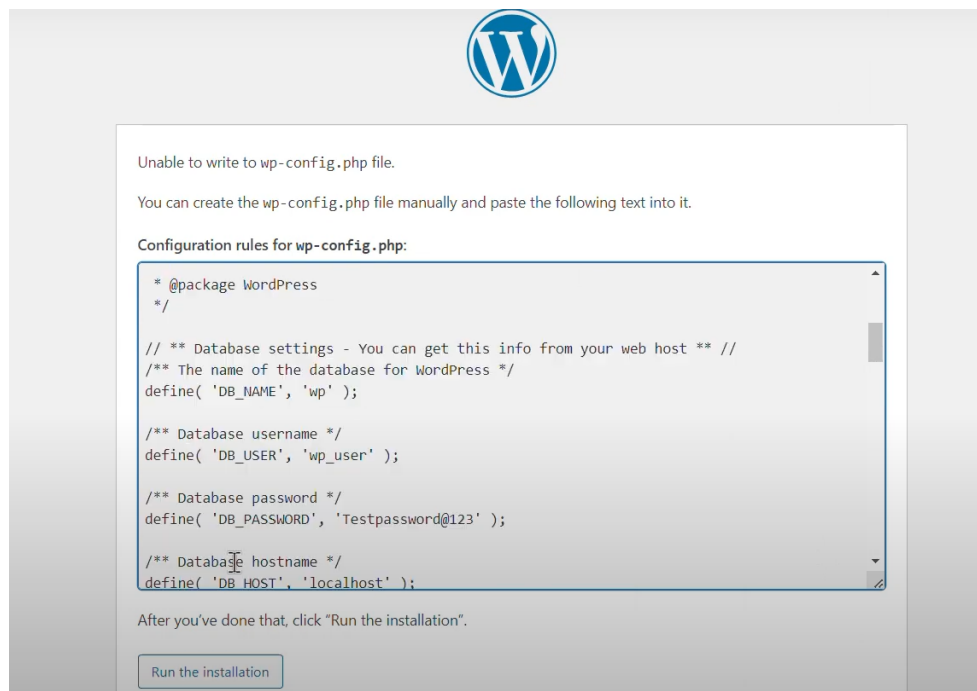


Fig. – Admin Page for credentials

### Step 7: Create a Welcome Page as the Homepage

- In the WordPress Dashboard: Create a page titled “Welcome”, Add any introductory content, images, text as desired, Publish the page.
- Set the Welcome Page as the Front Page.
- Visit your site’s main URL (<https://13.50.47.224/wordpress>) and you should see the Welcome page as the front page.

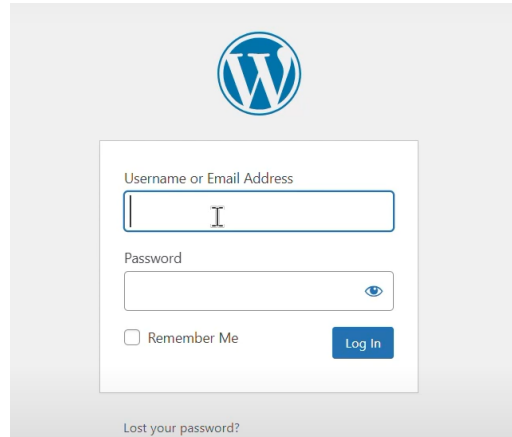


Fig. – Web Page frontend

**SAFA KHAN**