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.
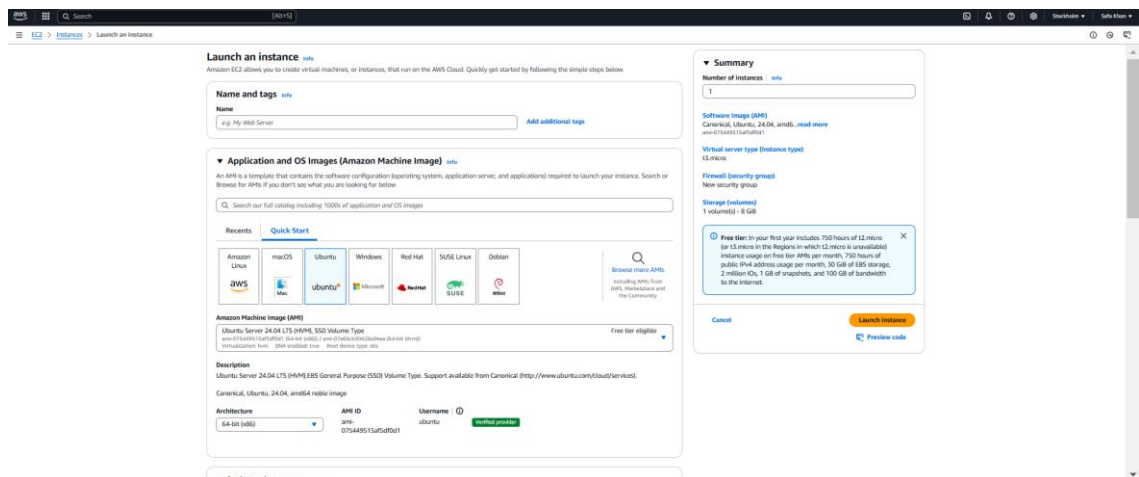

Fig. – EC2 Launch Instance page

Step 2: Connect to the EC2 Instance

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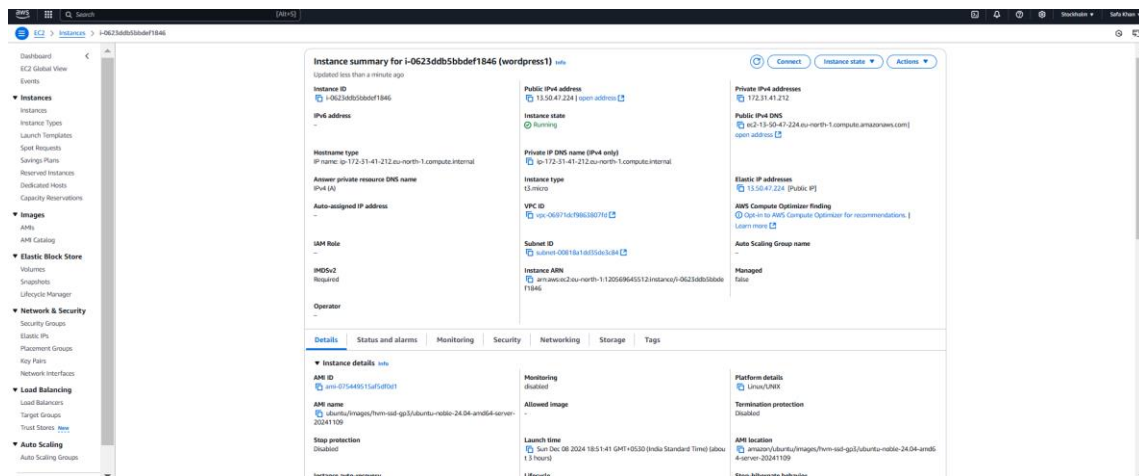
- SSH into the instance.

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.
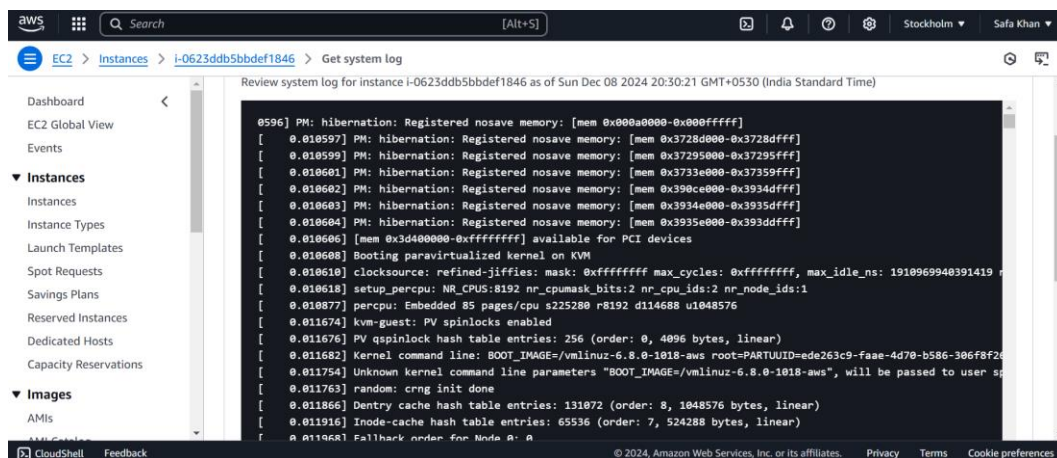- Create WordPress configuration file.
- Restart Apache.

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.
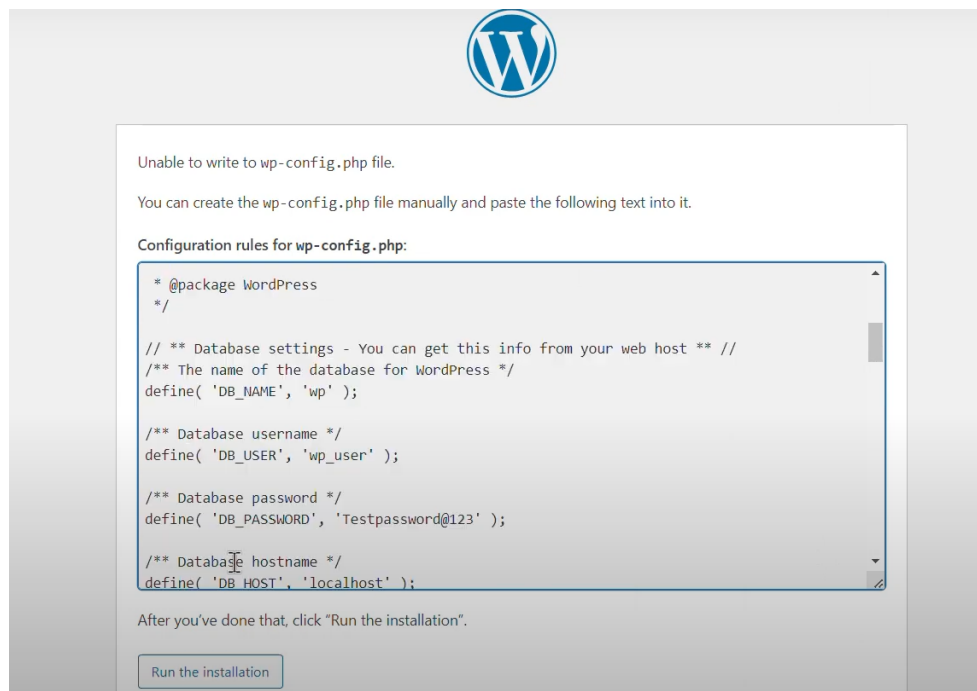
Fig. – Admin Dashboard backend

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.
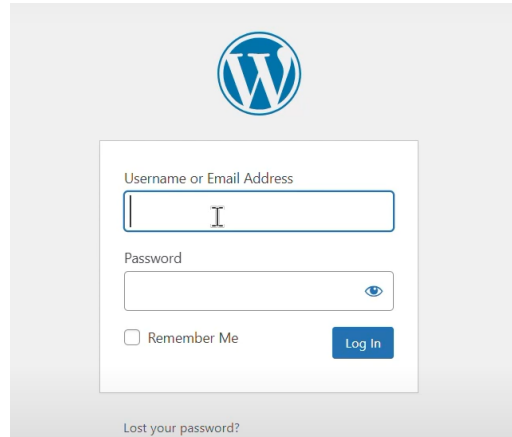- Visit your site's main URL (https://13.50.47.224/wordpress) and you should see the Welcome page as the front page.

Fig. – Web Page frontend

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