Major AWS Project

# Dynamic Website Hosting with EC2 and RDS

Overview: Built a dynamic website using EC2 and RDS, allowing users to log in through a web interface connected to a backend MySQL database.

## Steps Involved

* Launched an Ubuntu EC2 instance and installed Apache, PHP, and the MySQL client.
* Cloned website files from GitHub and hosted the static portion on the EC2 instance.
* Set up an RDS MySQL database and configured security groups to allow connections from the EC2 instance.
* Moved PHP and backend files to EC2 and connected them to the RDS database.
* Created a table, inserted test user data, and implemented a login form.
* Debugged and resolved issues related to missing PHP modules and configurations.

## AWS Services Used

EC2, RDS, IAM, Security Groups

## Outcome

This was my first major AWS project where I successfully hosted a dynamic login-based website. It taught me how to integrate compute and database services, troubleshoot configurations, and manage a small-scale deployment—all within AWS Free Tier limits.