

Week-One Project Review

Project overview:

The objective of this project is to deploy a WordPress application along with its associated MySQL database on Amazon Web Services (AWS) using both monolithic and microservices architectures. For the monolithic architecture, both WordPress and MySQL will be deployed on a single EC2 instance, while for the microservices architecture, WordPress and MySQL will be deployed on separate EC2 instances. The necessary security groups will be configured for each instance, and a welcome page will be created in WordPress to serve as the homepage.

Monolithic Architecture:

- ❖ EC2 Instance: 1
- ❖ WordPress and MySQL deployed on the same instance.
- ❖ Security Group: Configured to allow traffic only on required ports for WordPress and MySQL.

Microservice Architecture:

- ❖ EC2 Instances: 2
- ❖ WordPress and MySQL deployed on separate instances.
- ❖ Security Groups: Configured individually for WordPress and MySQL instances to allow necessary traffic.

Deployment Steps:

1.Setting up Ec2 instance -

- ❖ Launched EC2 instances with type t2-micro and Ubuntu AMI.
- ❖ Configured security groups for each instance to allow inbound traffic on necessary ports

2.Deployment in Monolithic Architecture –

- ❖ Installed WordPress and MySQL on the same EC2 instance.
- ❖ Configured MySQL database for WordPress.
- ❖ Configured WordPress settings.

3. Deployment of Microservice Architecture –

- ❖ Installed WordPress on one EC2 instance and MySQL on another.
- ❖ Configured MySQL database for WordPress.
- ❖ Configured WordPress settings to connect to the remote MySQL instance.

4. Creation of welcome web page-

- ❖ Developed a welcome page within WordPress to serve as the homepage.

Conclusion:

The deployment of WordPress application in both monolithic and microservices architectures has been successfully accomplished on AWS EC2 instances. By documenting the process and sharing it on GitHub, the deployment steps, configurations, and references are made accessible for future reference and collaboration. This project demonstrates the versatility of deployment architectures and the ability to tailor solutions according to specific requirements.