**Individual Weekly Report – Week 1**

**Project: E-commerce Web Application TechPlaza**

**Role: DevOps Engineer**

**Completed Tasks:**

1. **Infrastructure Planning**: Outlined initial plans for the infrastructure that will support the e-commerce platform, focusing on scalability and robustness, given the diverse range of products and potential traffic.
2. **Kickoff Meeting**: Participated in project kickoff meeting with teams to understand project scope, requirements, and goals.
3. **Security Measures Analysis**: Conducted preliminary research on security measures that will need to be implemented to secure transactions and protect users' personal and financial information. Started outlining the security aspects of the CI/CD pipeline.

**Ongoing/In-Progress Tasks:**

1. **CI/CD Pipeline Design**: Started the design of the Continuous Integration/Continuous Deployment pipeline that will ensure swift and reliable code integration, testing, and deployment.
2. **Environment Setup**: Working on setting up development, staging, and production environments, ensuring that they are correctly configured and secure.
3. **Infrastructure as Code (IaC):** Developing scripts for infrastructure as code to automate the provisioning and management of the platform's infrastructure.
4. **Monitoring System**: Beginning to plan the structure of the monitoring system to detect and react to any incidents or issues proactively.

**Issues/Challenges:**

**Issue 1:** Choosing the most suitable DevOps tools for the CI/CD pipeline. Currently comparing multiple tools to find the best fit for the project's needs.

**Issue 2**: Identifying the most effective security measures for the DevOps pipeline and the application. Reviewing multiple security options and consulting with security experts to ensure the most robust security solution is implemented.