HOW BLUEPI HELPED IN AUTOMATION OF DEPLOYMENT PROCESS FOR REPCHECKER (BY QMETRIX GROUP) USING AWS DEVOPS SERVICES

About the Client
qMetrix provides customized, integrated logistics solutions to a variety of industries including healthcare, hospitality, transportation, and warehousing. We believe that complex supply chains require sophisticated solutions, and we focus on combining data collection with real-time reporting utilizing portable wireless devices for both operational and quality metrics.

Business Problem
As business grows, more and more developers are required to work on enhancing the application and its underlying services. Some resources are working on adding new features while some resources are fixing the issues. As a result of multiple resources working on same code it was difficult to manage the changes and would often result in issues during deployments. The following diagram shows the old deployment process:

1. Code is committed on Feature branch by the Developer.
2. After Code review the Feature Branch is merged into Test Branch.
3. Before Prod Deployment, the code from Test Branch is merged into Prod Branch.

- Build WAR locally with properties for Test environment.
- Download the WAR that has been verified on Test Server, and replace with Prod properties.
- Manually Deploy WAR on each Test Instance.
- Manually Deploy WAR on each Prod Instance.

Test Environment
Amazon EC2 Instances

Prod Environment
Amazon EC2 Instances
BluePi’s Solution:

Understanding the issues, BluePi provided the DevOps solution which used the following services:

- AWS CodeCommit
- AWS CodeBuild
- AWS CodeDeploy
- AWS CodePipeline

Results & benefits:

- Automating the complete deployment process took less than a day.
- No manual intervention for code deployment and promotion. The developer’s check-in the code and configuration which are deployed to Test environment and Prod environment after testing.