



Devops Automation using Multi-Container Elasticbeanstalk

Customer: BitModern

Customer Engagement

BitModern owns a SaaS platform named TestQuality.com. BitModern wanted to deploy the SaaS platform on AWS with recommended best practices and automated devOps process.

Problem Statement

- Customer wanted to move from Homestead & Vagrant based deployment process to Docker based deployment process so that their developers can create environments with a single click for testing and development.
- Customer also wanted to automate the deployment from development to staging to production by running the automated test cases.

Proposed Solution

Production Environment

- Powerupcloud created Docker images for PHP & Node.js components.
- These Docker images were then implemented in Multi-Container ElasticBeanstalk.
- Ansible is used as the configuration management platform to manage user configuration and environment state.
- The entire environment is provisioned using CloudFormation template.
- CI/CD process was implemented using Jenkins.
- Amazon lambda was used to automate backups.
- Route53 was used as the DNS.

Staging Environment

- Powerupcloud created stand-alone Docker images for several components like MongoDB, Redis, Postgres, etc.