

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

1. 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.
2. Customer also wanted to automate the deployment from development to staging to production by running the automated test cases.

Proposed Solution

Production Environment

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

Staging Environment

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