

DevOps Dashboard

**Client: Large Financial Institution
(Staff Augmentation Services)**

EBUSINESS SOLUTIONS, INC.

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Authored by: Sakthiraj Kanankarithanam

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Problem Statement

Provide a consolidated view via dashboard on various life cycle events of an application – Security Scan, Unit and Integration Test, Build, Deployment and Site Walk.

Background

Being a large organization with geographically distributed teams and hundreds of applications to manage, there was no centralized place to monitor the status of each application's lifecycle health.

Key Drivers

Security issues along with high vulnerability issues and ability to track and resolve them in stipulated timeframe. In addition, integrating with task and ticket management systems (JIRA, ServiceCenter) ties everything together to provide greater visibility for proactive resolution.

Approach

- Identified event types for various activities - Deployment START, Deployment SUCCESS, Deployment FAILED, along with corresponding payload.
- Built REST interface for DevOps team to hook into the FASTPod application.
- Leveraged ActiveMQ for event queuing and load balancing.
- Deployed MongoDB as backend along with AngularJS UI for dashboard.
- Integrated with JIRA / Email to notify respective Application and Business Owners of critical issues requiring immediate attention.

Three Tenets

- Events
- Queue
- Dashboard

Deliverables

- Interactive dashboard – Application view, Time View
- Critical metrics for all applications owned by an Application owner to know -
 - Number of application with Build FAILED event
 - Number of code vulnerability issues
- Heartbeat View – what's up and what's down (RED/Green/Amber)
- Heatmap view – Displays every hour test results status.