Alpha Presentation
Ford Accelerate Monitor

The Capstone Experience
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Project Overview

- Web Portal
  - Register teams, projects and products
  - Manage and edit information
- CI/CD Product Integration
  - Jenkins, GitHub, and SonarQube (stretch)
  - Software statistics calculated with data from products
- Smart Home Device Skill
  - Google Assistant and Alexa (stretch)
  - Retrieve software statistics for their team or project by asking structured questions
System Architecture
Team Homepage
Registering Products
GitHub Registration

To register the GitHub repository used for your project, enter the following information:

- Accelerate Monitor
- https://github.com/accelerateMonitor
- Ford
- teamford2020

Save | Return

SonarQube
Complete!

Incident
Complete!

Jenkins
Complete!
Project Information

Team Homepage

Project List

- Ford Project
- Accelerate Monitor

Delete all the projects
Delete selected project

Project Information:

- Repo Name: Accelerate Monitor
  - Repo URL: https://github.com/accelerateMonitor
  - Username: Ford
  - Authentication Token: teamford2020

- Instance Name: SonarQube Accelerate Monitor
  - Project URL: https://www.sonarqube.org/
    Authentication Token: sonarqubeford

- Job Name: Jenkins Accelerate Monitor
  - Project URL: https://app.circleci.com/projects/AcelerateMonitor
  - Authentication Token: JenkinsFord

Options:
- Spring actuator health endpoint

Show Details
Deployment Frequency Statistics
Remaining Statistics

• Accelerate
  ▪ Mean time to restore (MTTR)
  ▪ Change fail percentage
  ▪ Lead time

• Other
  ▪ Build frequency
  ▪ Commit frequency by team member
Mean Time To Restore

Incident Record in Database

- MJmyGMQw13DmrcjBotJ
- MJnSzk0j-2bECEiXlrP
  - date: "2020-10-16 18:11:42 EDT"
  - projectName: "incident-test"
  - status: "Down"
- MJnXDDk7pRR-arsk9LK
  - date: "2020-10-16 18:30:10 EDT"
  - projectName: "incident-test"
  - status: "Restored"
- MJwLZC50GaE9kLERGUc

Down Record

Restored Record
Lead Time

Build Record in Database

- **commitID**: "ad5f42a9725cf221fe2c6057dedf5c090a5143cc"
- **date**: "2020-09-16 23:11:05 EDT"
- **deployment**: true
- **env**: "PROD"
- **projectName**: "jenkins-test"
- **status**: "FAILURE"
Change Fail Percentage

Build Record in Database

```
-MJiM5VRAhBv5tGhh_pz

commitID: "ad5f42a9725cf221fe2c6057dedf5c090a5143cc"
date: "2020-09-16 23:11:05 EDT"
deployment: true
env: "PROD"
projectName: "jenkins-test"
status: "FAILURE"
```

Commit SHA
Build Timestamp
Deployment?
Environment
Registered Name
Build Result
What’s left to do?

• Calculate remaining accelerate statistics
• Testing with Ford pre-production data
• Build failure notification
• Continue to refine UX of web portal
• Stretch goals
  ▪ Create software statistics dashboard in web portal
  ▪ Integrate SonarQube statistics
  ▪ Add Alexa compatibility
Questions?