



PLAY
REIMAGINED



DevOps in a Legacy Application – Is the New Reality

April 27, 2019



⚡ This is our story!

Background

Creating a
safety net
from
scratch

Strengthening
the safety
net

Setting up
Fast
feedback

Improving
monitoring

Road
Further
Ahead

⚡ A flashback into a decade before



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⚡ A Tale of a Complex Application...



⚙️ Our Great Grandfather State...

Develop

**Manual Code
Merge**

Automated Build

Manual Testing

**Manual
Deployment**

Who Cares?



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⚙ Little drops of water make the mighty ocean?

Unit tests

Continuous
Integration

Code Coverage

Automated Tests



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⚡ Does it take two hands to Clap?

Quality
Dashboard

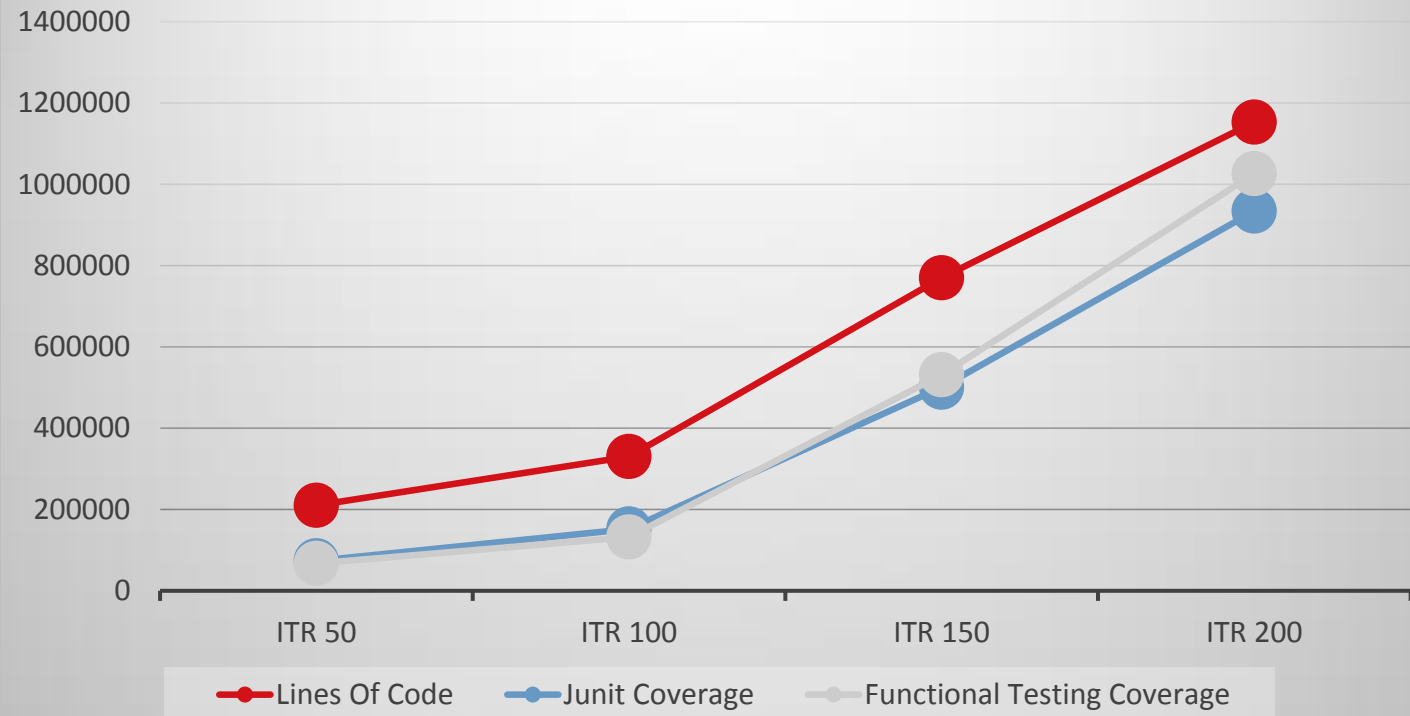
Automated
Deployment

Functional Test
Coverage

Distributed Test
Execution

Doneness of a
story include
Automated Tests
& Quality Gates

Progress Measured





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⚡ Fail Fast, Fail Often?

Smoke Tests

Performance
Tests

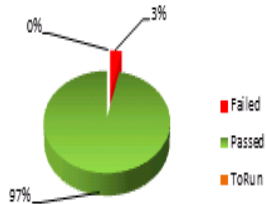
Automated
Regression
Analysis

Build Promotion

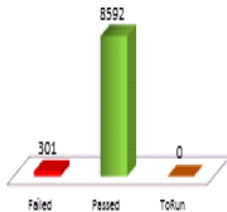
Package
Distribution

Regression Analysis Dashboard

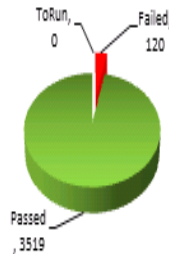
OVER ALL REGRESSION STATUS



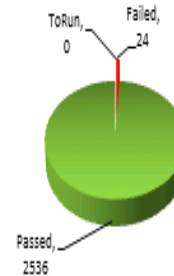
TOTAL RUN STATS



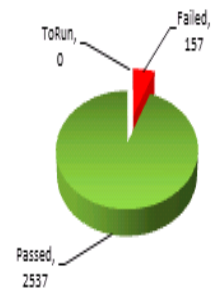
REGRESSION GROUP 1 STATUS



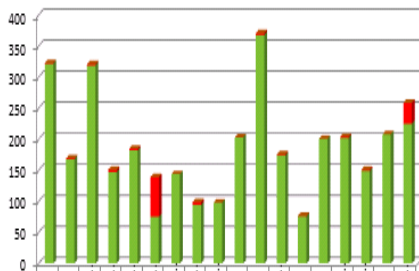
REGRESSION GROUP 2 STATUS



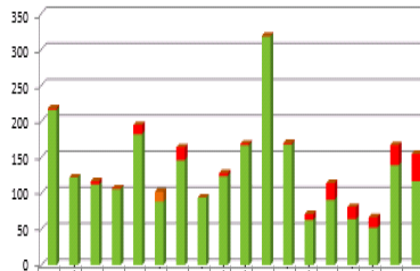
REGRESSION GROUP 3 STATUS



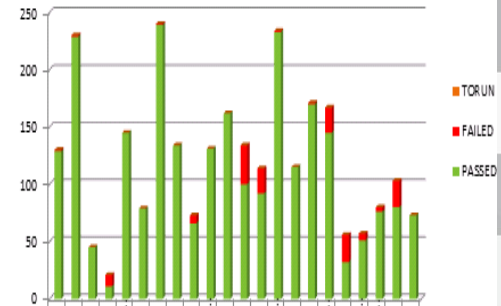
REGRESSION GROUP 1 STATUS By JOB - Build #90



REGRESSION GROUP 2 STATUS By JOB - Build #90



REGRESSION GROUP 3 STATUS By JOB - Build #90





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a
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**Improving
monitoring**

scratch

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⚙️ Eyes have only one Language...

Log Analytics

**Metrics
Dashboard**

Health Checks

**Application
Monitoring**

**Performance
Monitoring**

**Automated
Incident
Management**



Develop



JUnit



REACT

Build

maven

Integrate



Jenkins

sonarqube

VERACODE

Test



Deploy



ANSIBLE

Post- Deploy



dynatrace



elastic

service
now



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Build Automation and
Source Quality
Management

Test Automation

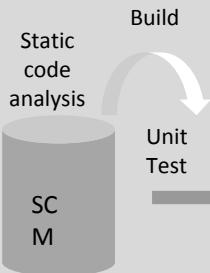
Monitoring Automation

Infrastructure Automation

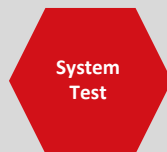
Deployment Automation



Development
Team



Continuous
Integration



System
Test



Integration
Testing



Production
Test

Continuous
Testing



Production

Continuous
Monitoring



Q & A ?

THANKS !

References:

<https://www.itchronicles.com/dev-ops/new-book-on-the-science-devops/>

<https://www.infosys.com/IT-services/application-development-maintenance/white-papers/Documents/devops-legacy-systems.pdf>

<https://www.dynatrace.com/platform/>

<https://www.elastic.co/elk-stack>

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