

Proposal for DevOps Project

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Table of Contents

Impact On Business.....	2
Current state of Development.....	2
Some notable issues on the floor.....	2
Goals.....	3
How would Business Benefit.....	3
Realization Path.....	3
Phase – I.....	3
Phase – II.....	3

Impact On Business

1. Increased turn around time with multiple iterations to deliver promised features
2. Business Growth is limited
3. Potential Revenue Losses and Eroding Customer Trust due to internal incapability

Current state of Development

1. Heavy dependency on people over methodology and process
2. Quality of the product is not verified on regular basis. Verification process is always triggered by external events like new release, customer issue or release of service pack.
3. No control over check – ins. Quality of the build is verified at the destination not at the source
4. Testing is completely manual
5. White box testing is almost non – existing
6. Scope and Output of testing is driven by external circumstances (Release Pressures, Inter-Personal Relationships & Tester Skillset)
7. Repetition of same activities, losing valueable resource cycles and causing human burn out

Some notable issues on the floor

1. Build is triggered on request basis either by QA team or due to impending release
2. No separate team for build generation. Being handled by developers
3. Stored procedures and DB scripts are not versioned
4. Testing and certification of build is done manually in the release
5. Approval of the build is with the project management team
6. There are 4 – 5 branches of code base and not properly structured.

Goals

1. Repeat-ability of quality with methodology, process and tool set
2. Process oriented development over people dependent development
3. Continuous Integration & Continuous Delivery to ensure the timely delivery

How would Business Benefit

1. Guaranteed quality levels of the product with timely delivery
2. Internal team is equipped with appropriate process and tool-set to support business growth
3. Customer acquisition is non tedious.

Realization Path

Phase – I

Activities

1. Defining and Implementing Development Process in the areas
 - a) Configuration Management
 - b) Build and Release Management
2. QA Automation for existing functionality
3. Continuous Quality Verification and Certification using DevOps

Expected Time Lines

9 – 12 months

Phase – II

Activities

1. Control Quality at Source i.e. Quality Verification before code is in the version control
2. White box testing at API Level
3. Continuous Integration, Pipelining, Automated Load, Automated Performance Testing & Continuous Delivery using DevOps

Expected Time Lines

1 Year