

# eProSoft DevOps Methodology – White Paper

## Abstract

DevOps is an increasingly common process of software delivery in which software development and operation teams work together to design, prototype, deploy and monitor applications with speed, quality and control.

eProSoft's DevOps services reduce inefficiencies and increase software quality and reliability. DevOps services offered by eProSoft provide features, improvements, and upgrades that meet your needs.

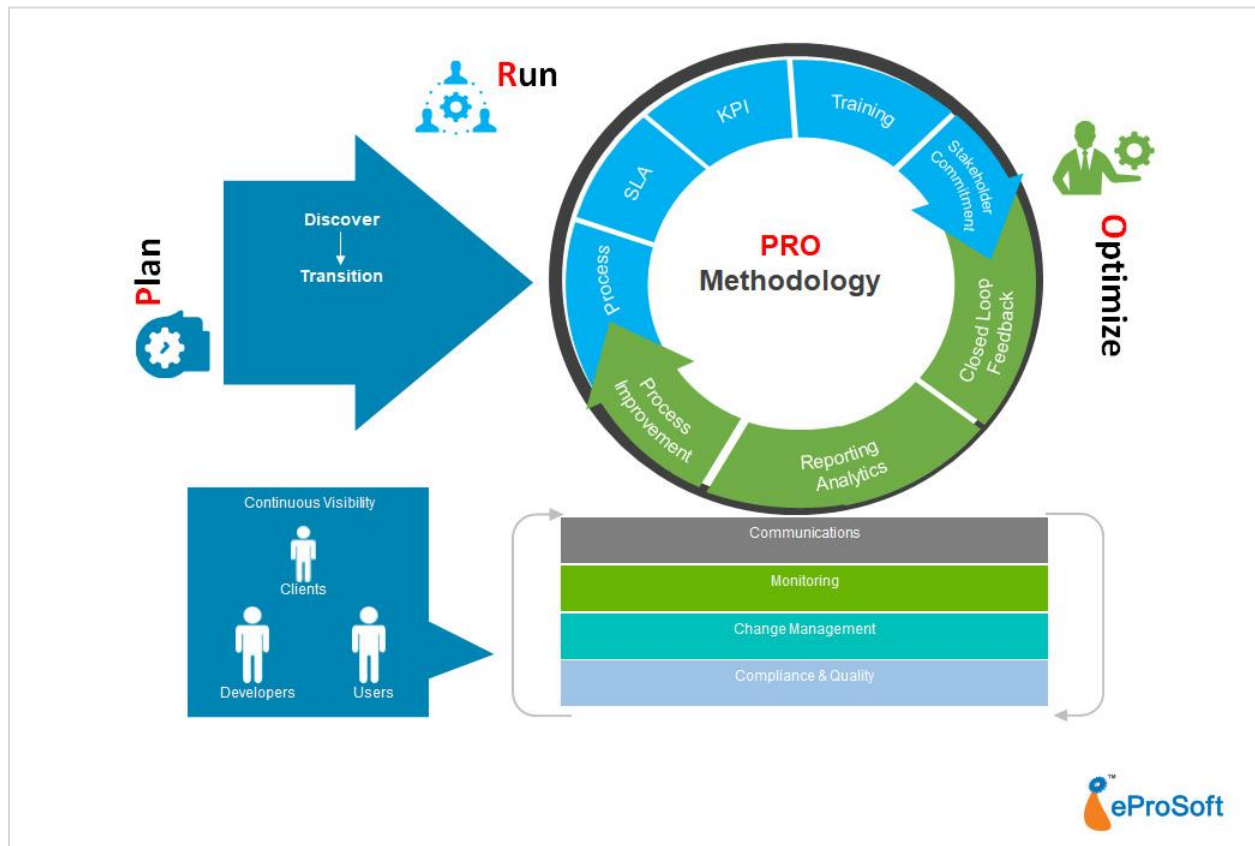
## Background

Successful and efficient DevOps is about optimizing the factors that drive successful development and ensuring that adequate infrastructure is needed to support any development efforts.

DevOps services have two cornerstones— ensuring the continuous development, execution and distribution of software, and automating routine tasks to free up human resources and reduce the risk of errors. eProSoft has a strong understanding of these activities, as well as a deep knowledge of the existing business IT infrastructure, processes, and operations.

It is not enough to structure the DevOps team the right way, as a transparent pipeline is needed to ensure the business continuity and optimal resource allocation. Here's how we at eProSoft do it.

## eProSoft's DevOps Strategy



### Step 1: Plan

The first stage of refining the current DevOps processes requires thorough planning with the below key steps:

- Determining current business issues
- Assessment of already/existing built-in IT infrastructure
- Audit of product delivery lifecycle maturity
- Implementation of the action plan needed to solve the problems the organization faces
- Application of the calculating performance metrics for evaluation
- Selection of the appropriate tools and processes
- Provide estimation of the timelines and cost for each operation

## Step 2: Run

- Once the plan and projections have been prepared and accepted, the real work of implementation begins for execution:
- Implementation of Agile Application Development Lifecycle environment
- Development and implementation of procedures for the identification, tracking, recording and reporting of operations
- Completion of operational tasks as per the roadmap
- Validation of Automation, Configuration and Deployment activities
- Measuring efficiencies according to the predefined metrics

## Step 3: Optimize

If the defined business goals are met, the last step to boost the DevOps output is to ensure optimum resource allocation and business continuity:

- System processes involve constructive monitoring and problem resolution
- Determining and rectifying the origin of the issues
- Continuous improvement of existing workflows and operations
- Updating, patching, updating or migrating existing infrastructure to a new Cloud platform
- Ensure organizational business standards are always high

The main problem is that even if this process might seem simple and straightforward, there are actually quite a lot of underwater reefs in it. Vague requirements, weak infrastructure knowledge, outdated technology and lack of managerial support to transformational grassroots initiatives are just a few of these challenges.

This is why working with a trustworthy managed services provider such as eProSoft, can be a great solution, because we ensure our tools, skills and processes are in place to assure successful completion of the project.

## eProSoft's Managed Services

### 1) Infrastructure Management:

Managing the infrastructure is a fundamental building block for any enterprise that seeks to achieve the DevOps methodology.

### 2) Configuration Management:

Management of configurations standardizes resource configurations and enforces their status across IT infrastructures. Senior DevOps engineers will enable your company to do that in an agile and automated manner

### 3) Code Inspection & Integration:

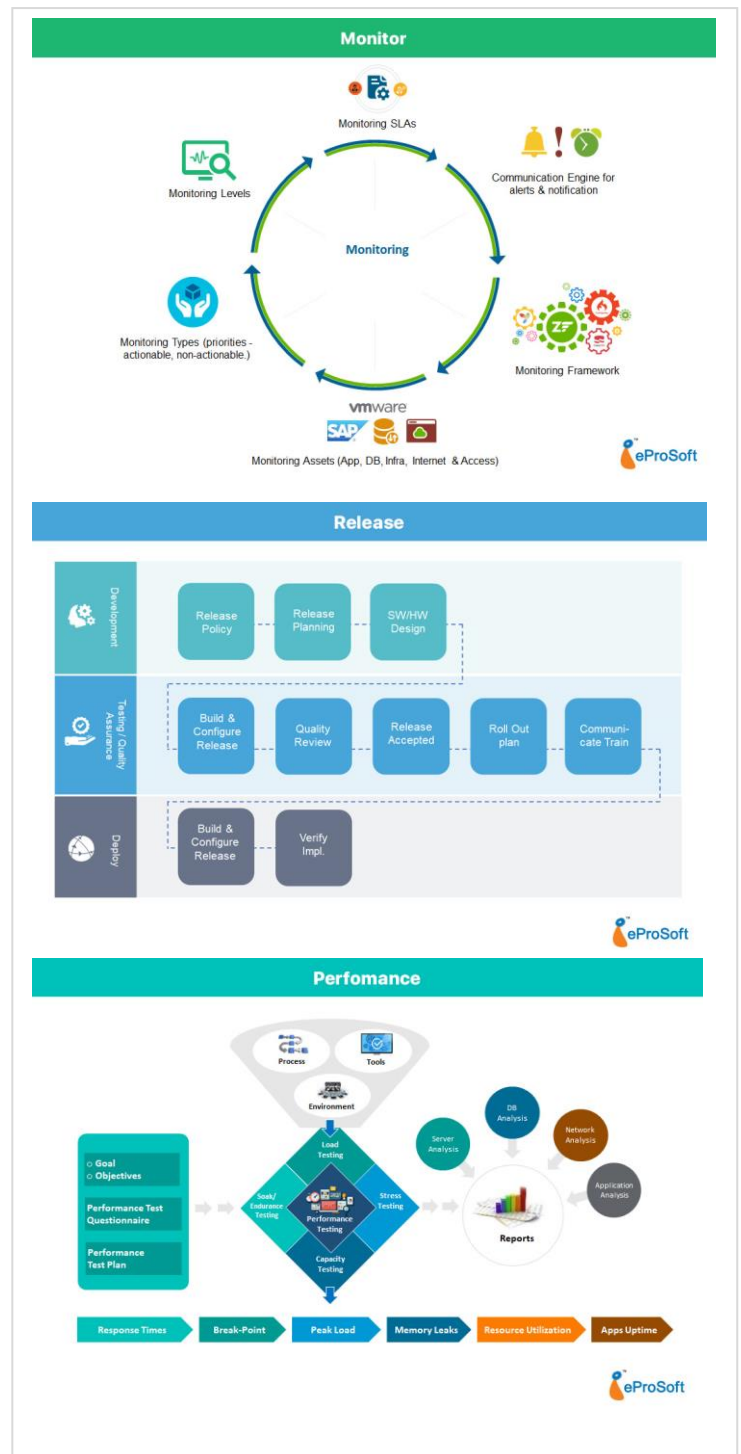
Clean coding provides the basis for continuous integration. Experienced DevOps engineers will work with your team to help check and improve code, verify deployment artifacts and help ensure quality reporting and application creation.

### 4) DevOps Automation Service:

Automating the deployment process increases the flexibility and productivity of organizations while reducing overall production time and associated risk.

### 5) Virtualization:

Virtualization allows developers and IT teams to use the same compute and network environments, further break down barriers within a DevOps organization and substantially reduce costs.



**Our DevOps as a service expertise includes:**

- One click deployments and rollback
- Configure Automated Alerts
- Centralized Log Management
- Infrastructure Security
- Continuous Process and Infrastructure Development
- Continuous Integration and Continuous Development
- Disaster Recovery
- Performance Optimization and Stress Testing
- Collaboration with Dev and QA team