

2020



Magenic GitHub DevOps Accelerator

A close-up photograph of a microscope lens, showing the lens element and the surrounding metal housing. The lens is positioned on the right side of the slide, with a wooden surface visible in the background.

Agenda

- » Magenic's View of DevOps
 - › The Importance of DevOps
 - › The DevOps Maturity Journey
 - › Why GitHub Integration is Important
- » Common Barriers to Implementation
- » How Magenic Can Help You Get There Faster
- » Magenic GitHub DevOps Accelerator

DevOps: The Magenic Definition

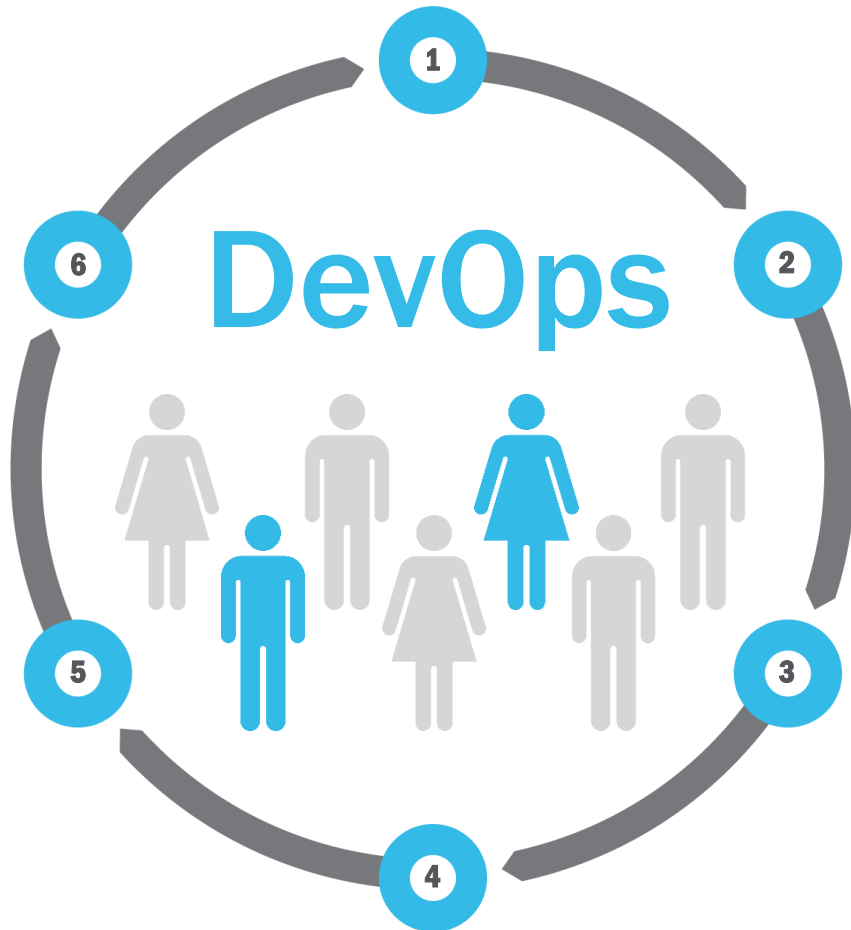
DevOps [dĕv' • ۆps]

n.

Collaborative intersection of the Business, Product Development, Quality Engineering, IT Operations and the End User

It consists of procedures, processes, and tools that improve: Stability; Consistency; Configurability; Communication within your Software Development Lifecycle (SDLC); Operability; Adaptability; Time to market

High-level View of DevOps



1) Plan

- Backlog Grooming
- Spring Planning

2) Build

- Develop
- Compile
- Configure/Deploy
- Create Artifact
- Operability

3) Test

- Unit
- Feature
- Regression
- Performance
- UAT

4) Release

- Pull Artifact
- Configure/Deploy
- Hosting

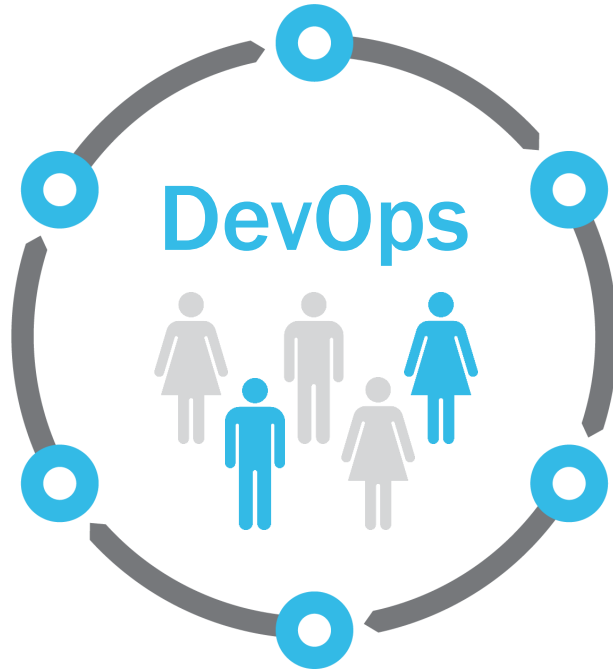
4) Release

- Pull Artifact
- Configure/Deploy
- Hosting

5) Operate

- Configuration
- Deployment
- Health Checks

The Importance of DevOps



DevOps helps deliver software faster, more reliably, and with fewer errors

440x

FASTER
LEAD TIME

96x

FEWER
DEFECTS

29%

MORE TIME
SPENT ON
NEW WORK

2x

LESS TIME FIXING
SECURITY ISSUES

46x

MORE FREQUENT
DEPLOYMENTS

24x

FASTER
RECOVERY

2.2x

IMPROVED
EMPLOYEE NET
PROMOTER SCORE

2x

MORE LIKELY
TO EXCEED

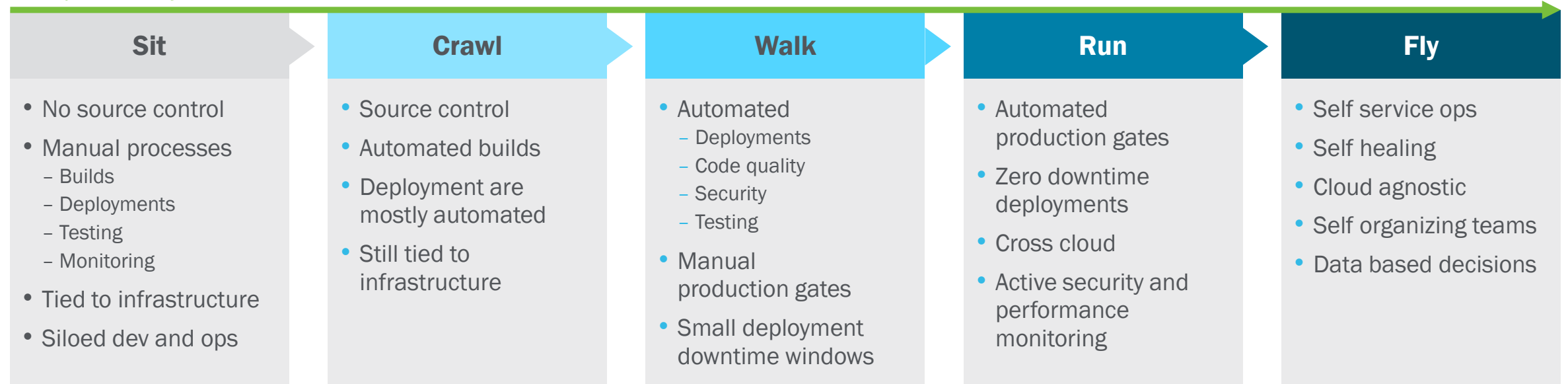
Source: <https://puppet.com/resources/whitepaper/state-of-devops-report>

The DevOps Maturity Journey

- » Beginning with Automated builds
- » Each step in the journey builds on the previous
- » Final state in the DevOps Maturity Journey is Self Service Ops, Self Organized, Self Healing...



DevOps Maturity



Why GitHub Integration is Important

- » Enterprise DevOps Tooling
- » Largest source control host in the world
 - › Used by more than 50 million developers
 - › Hosting some of the most popular projects in the industry such as Kubernetes, .Net Core and many more
- » Built in project management capabilities
- » Strong build and release management capabilities
- » Supports public and private package management
- » Documentation, Reporting and Dashboarding features
- » One stop shop for many of your DevOps tooling needs



Common Barriers to DevOps Implementation

- » Culture
 - › “I’m afraid we’ll try to do too much too fast and then just give up”
 - › “It’s too hard to change how we work and what work is done”
- » Time constraints
 - › “We don’t have the time to do this”
 - › “Our teams will be overwhelmed by the process and technical debt”
- » Too many tools
 - › “There are so many tools on the market...picking the right one is overwhelming”
- » Lack of experience
 - › “We don’t know where to start”
 - › “We’ll end up spending a lot of time reinventing the wheel”



How Magenic Can Help You Implement DevOps Faster

Magenic DevOps Can Help You Deliver Results



Real world
client results

98%

REDUCTION IN
REGRESSION
TESTING

96%

REDUCTION IN
SMOKE TESTING

12x

FASTER
RELEASES

99%

LESS
DOWNTIME

300%

INCREASE OF
AUTOMATED
RELEASES

180x

RELEASE
CAPACITY

95%

FEWER
REGRESSION
DEFECTS

How Magenic Can Help You Implement DevOps Faster



DevOps Accelerators

When you need an experienced outside perspective to formulate a roadmap and plan



Backlog Workshop

When you've identified DevOps changes, but need validation and a plan



Implementation Services

When you have a plan and need a partner to accelerate implementation of DevOps practices

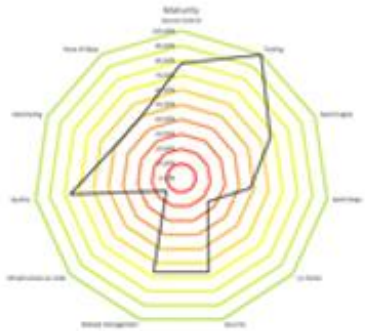
How Magenic Can Help You Implement DevOps Faster

- » Magenic's GitHub DevOps Accelerator
- » A proven and repeatable process for helping you achieve DevOps maturity faster
 - › Time-boxed, fixed-bid engagement that provides an action plan for speed and efficiency
 - › Helps you define your DevOps Goals
 - › Highlights both process and tooling improvements
 - › Helps you take advantage of the enterprise level feature available within GitHub
 - › Evaluates where you current are in your maturity journey
 - › Provides an Implementation road map

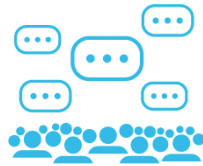
Magenic's DevOps Accelerator Deliverables



Maturity Assessment



1.



Detailed Recommendations

Area	Key	Recommendation	Impact
CI/CD	CI/CD Pipeline	Implement a CI/CD pipeline to automate the build and deployment process.	High
Cloud	Cloud Migration	Migrate on-premise infrastructure to the cloud to improve scalability and cost efficiency.	High
Security	Security Audit	Conduct a security audit to identify vulnerabilities and implement remediation measures.	High
Compliance	Compliance Framework	Implement a compliance framework to ensure adherence to industry regulations.	High
Risk Management	Risk Assessment	Perform a risk assessment to identify potential risks and develop mitigation strategies.	High
Audit	Audit Trail	Implement an audit trail to track changes and ensure accountability.	High
Infrastructure as Code	IaC Implementation	Implement Infrastructure as Code (IaC) to manage infrastructure configuration.	High
DevOps	DevOps Culture	Foster a DevOps culture of collaboration and continuous improvement.	High

2.



High-Level Roadmap



3.



Executive Review



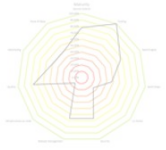
4.

The Magenic DevOps Accelerator Process



**Individual interviews are typically time boxed to an hour to minimize the impact to normal business*

Magenic DevOps Accelerator Cost



Week 1



Weeks 2-3



Weeks 4-5



Week 6

Planning

- Identify key stakeholders
- Identify key technical resources
- Schedule interviews and technical deep dive sessions
- Assessors plan areas of measurement

Interviews/Technical Reviews

- Information gathered from the interviews and reviews are *Fixed Fee* assessed
- Follow up interviews or email questionnaires

Analysis & Follow-up

- Create recommendations document
- Build implementation roadmap

Finalize & Present

- Documentation peer reviewed by other Magenic DevOps professionals
- Deliver maturity matrix, detailed finds document and high-level Implementation roadmap
- Present high-level findings and Implementation roadmap in executive review

6 weeks; \$32,000

Magenic's DevOps Accelerator Benefits

- » Independent assessment of your organization's maturity
- » Technical real-world guidance
 - › Recommendation and advice from professionals that use GitHub day to day
- » Actionable implementation plan which aligns with your business goals
 - › Based on extensive industry/hands on experience
 - › Prioritize to maximize results and minimize business disruption
- » Helps you realize the benefits of DevOps faster
 - › Happier teams delivering software faster, more reliably, and with fewer errors

