



Cloud 9 Infosystems

INTRODUCTION TO DEVOPS WITH VSTS

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AGENDA

What, Why and Where?

Automated build, test and deploy

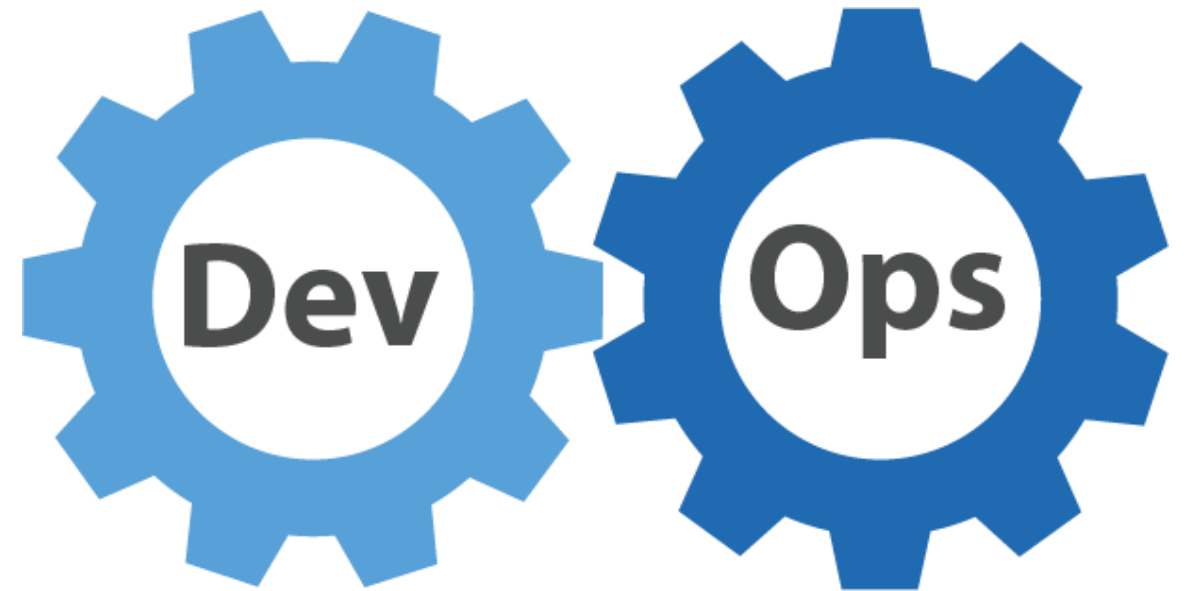
Where does DevOps fit in software development?

Version control

Basics of Git

Demo

DEVOPS — WHAT, WHY, AND WHERE??



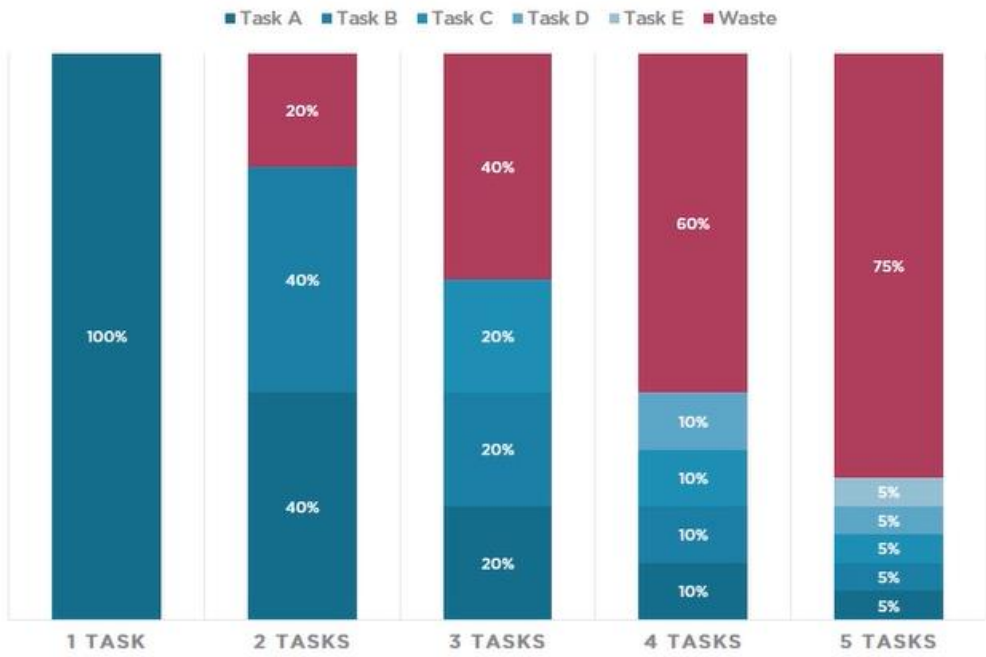
**DEVOPS IS A MINDSET PLUS A SET OF PRACTICES
THAT FOCUSES ON AUTOMATION.**

**DELIVER FASTER AND MORE OFTEN WITH LESS
WORK**

PRODUCTIVITY VS WASTE

or What's Important? That's Up, What's Why and Why?

Productivity vs. Waste



MULTITASKING SNEAKS UP ON YOU

You are assigned one task...

...and a couple of bugs

...and something is weird in production

...and patches are needed on the servers

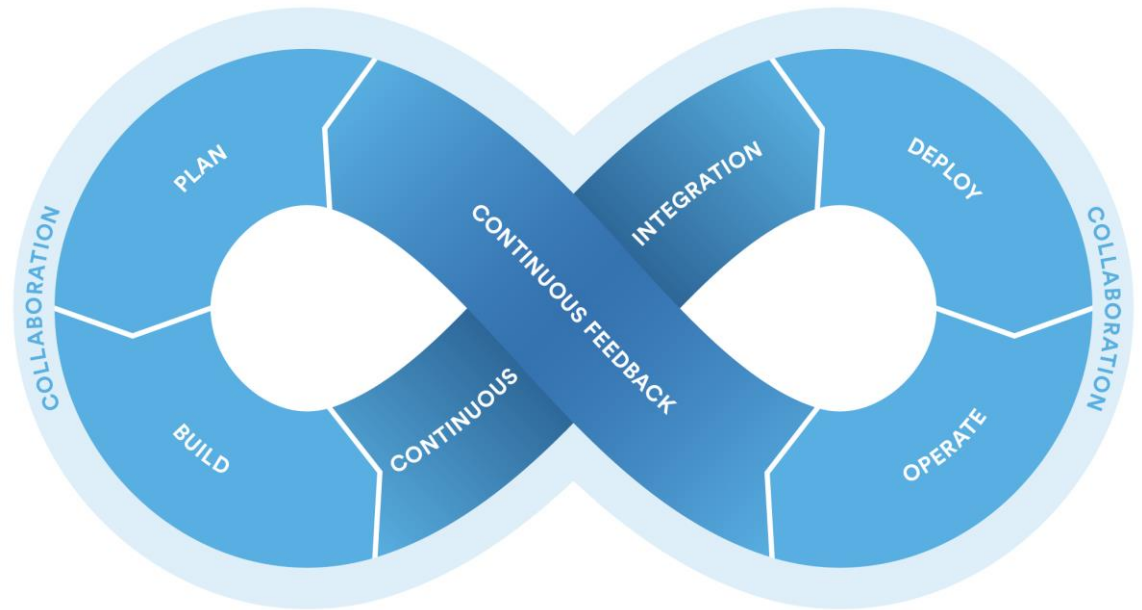
...and fix a problem in QA

...and deploy a release

DEVOPS = ELIMINATE DISTRACTIONS

**IF IT IS REPETITIVE, AUTOMATE IT.
IF IT IS PAINFUL, AUTOMATE IT.**

AUTOMATED BUILD, TEST AND DEPLOY



AUTOMATED BUILD, TEST AND DEPLOY - BENEFITS

Release more often

- Not scary, painful, disruptive

Faster bug fixes

Smaller, more frequent releases

- Easier to change
- Easier to test
- Easier to get feedback

Respond faster to feedback

**DEVOPS DECREASES THE TIME FROM FEEDBACK
TO FIX**

**DECREASES THE NUMBER OF THINGS YOU NEED
TO WORRY ABOUT.**

FOCUS ON YOUR REAL JOB.

WHERE DOES DEVOPS FIT IN SOFTWARE DEVELOPMENT?

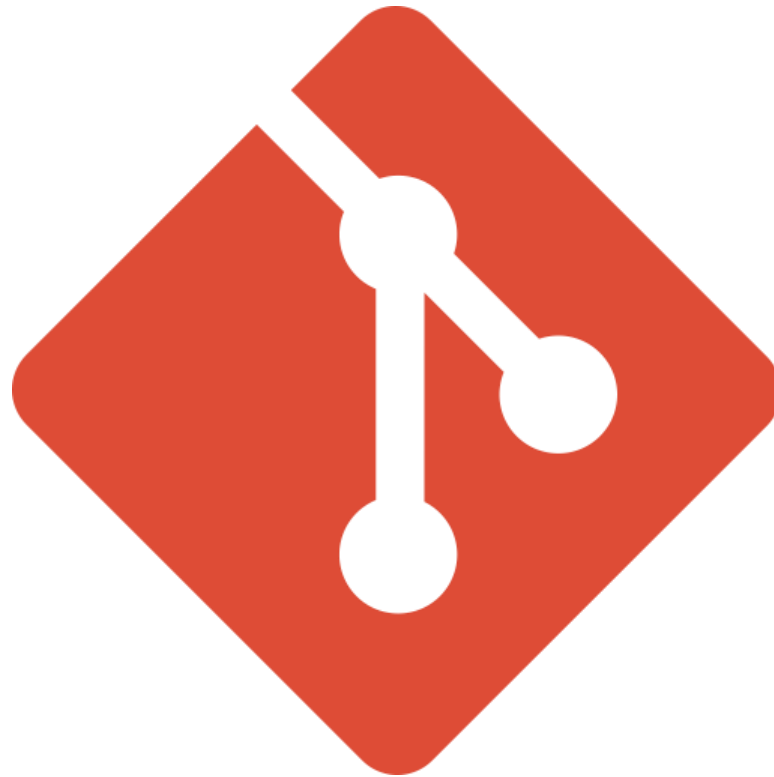


SOFTWARE DEVELOPMENT INDUSTRY VS SOFTWARE DELIVERY INDUSTRY

SOFTWARE THAT IS WRITTEN IS INTERESTING

SOFTWARE THAT IS DELIVERED IS VALUABLE

VERSION CONTROL



WORK BY YOURSELF

Life is simple

Protect from your own errors

Backup your code

History

Diff



WORK WITH A TEAM

All the same problems as the solo mode

Integration

Combine all work ----- the usable software



WORK WITH MULTIPLE TEAMS

More people more complicated

Integrations across teams

Combine all work ----- the
usable software



<http://less.works> 

WHY USE VERSION CONTROL

It is the integration point

Core tools for integrating

Track and compare history

But if you are aspiring to DevOps awesomeness...

...version control is required.

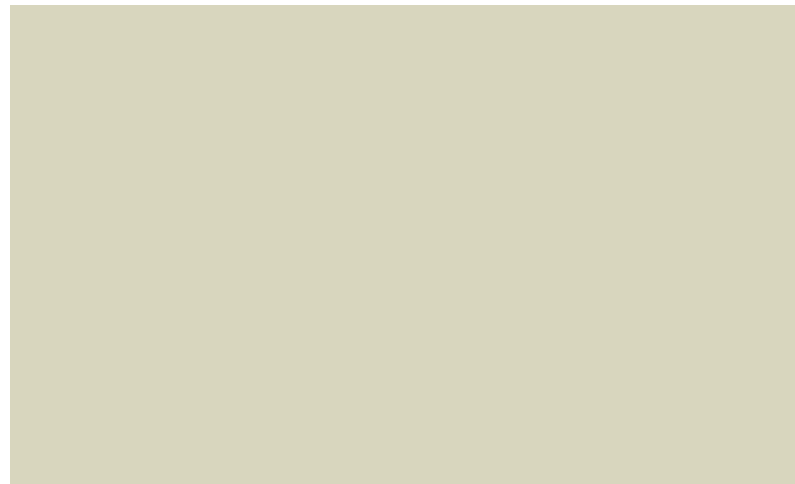
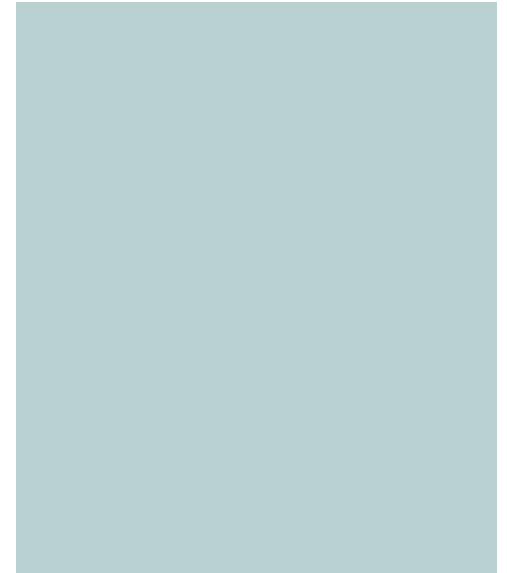
TWO TYPES OF VERSION CONTROL IN TFS

Centralized version control – TFVC

Distributed version control - GIT



Git



Team Foundation Server
Version Control
(TFVC)

BASICS OF GIT



THE BASIC GIT FLOW

Clone the remote repository

- First time only
- Creates a local copy

Work locally

- Add, edit, delete, etc.
- Commit
- (repeat)

Share

- Push to remote
- Publishes local commits to remote server

DEMO

Create a TFS team project

Initial setup of a Git repository

Add some code

Push to TFS

Web interface for version control

Q & A

AZURE EVERYWHERE FREE ASSESSMENT

Focus on Business not Infrastructure

Plan your migration off unsupported servers

Business Intelligence & Analytics

Business Continuity

Azure PaaS

Dynamics ERP in the Cloud

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