

Azure DevOps in the Real World

DevOps Culture

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Presenter

Sebastian Schütze

MS Cloud DevOps Architect @ Schindler

- *Born in Berlin*
- *37 years of age*
- *Working with web technologies over 10 years and SharePoint 5 years and now DevOps & Culture*



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<https://razorpoint.com>

AGENDA

What is DevOps

DevOps Culture on Enterprise Level

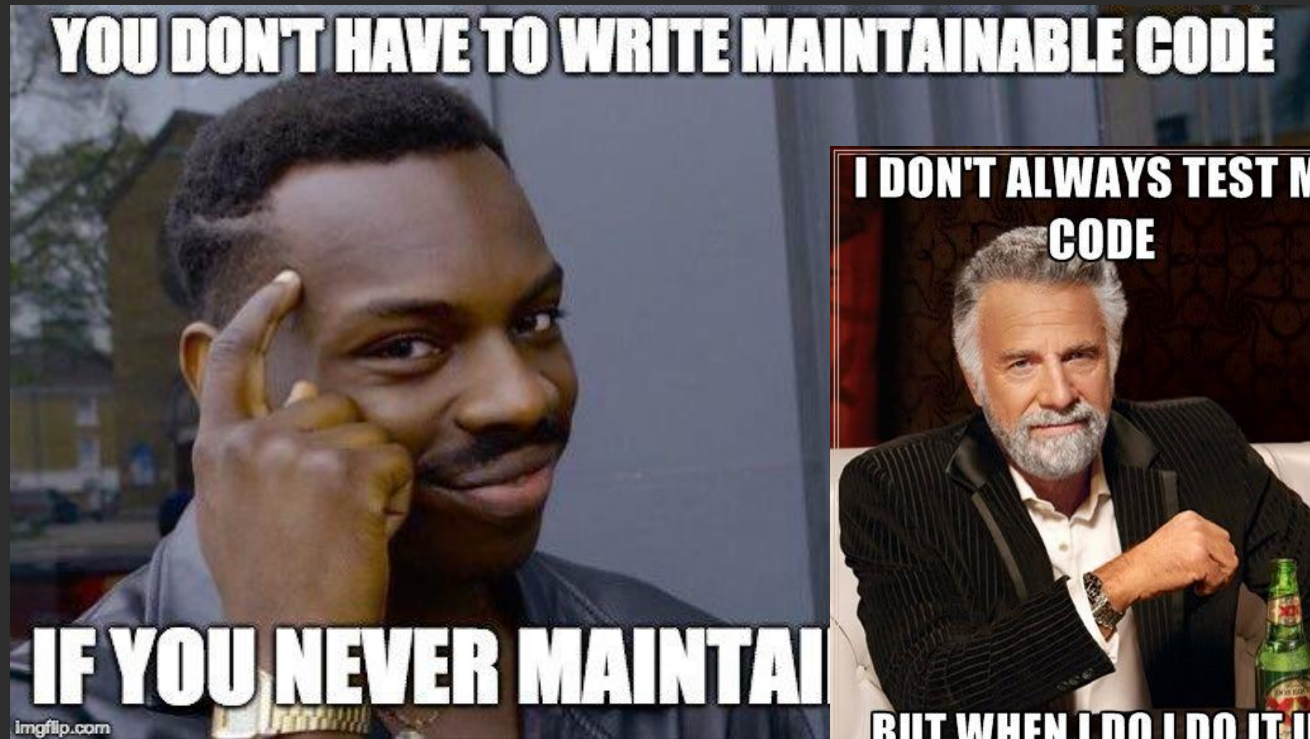
Azure DevOps as a Service - Demo

We need to talk about
DevOps



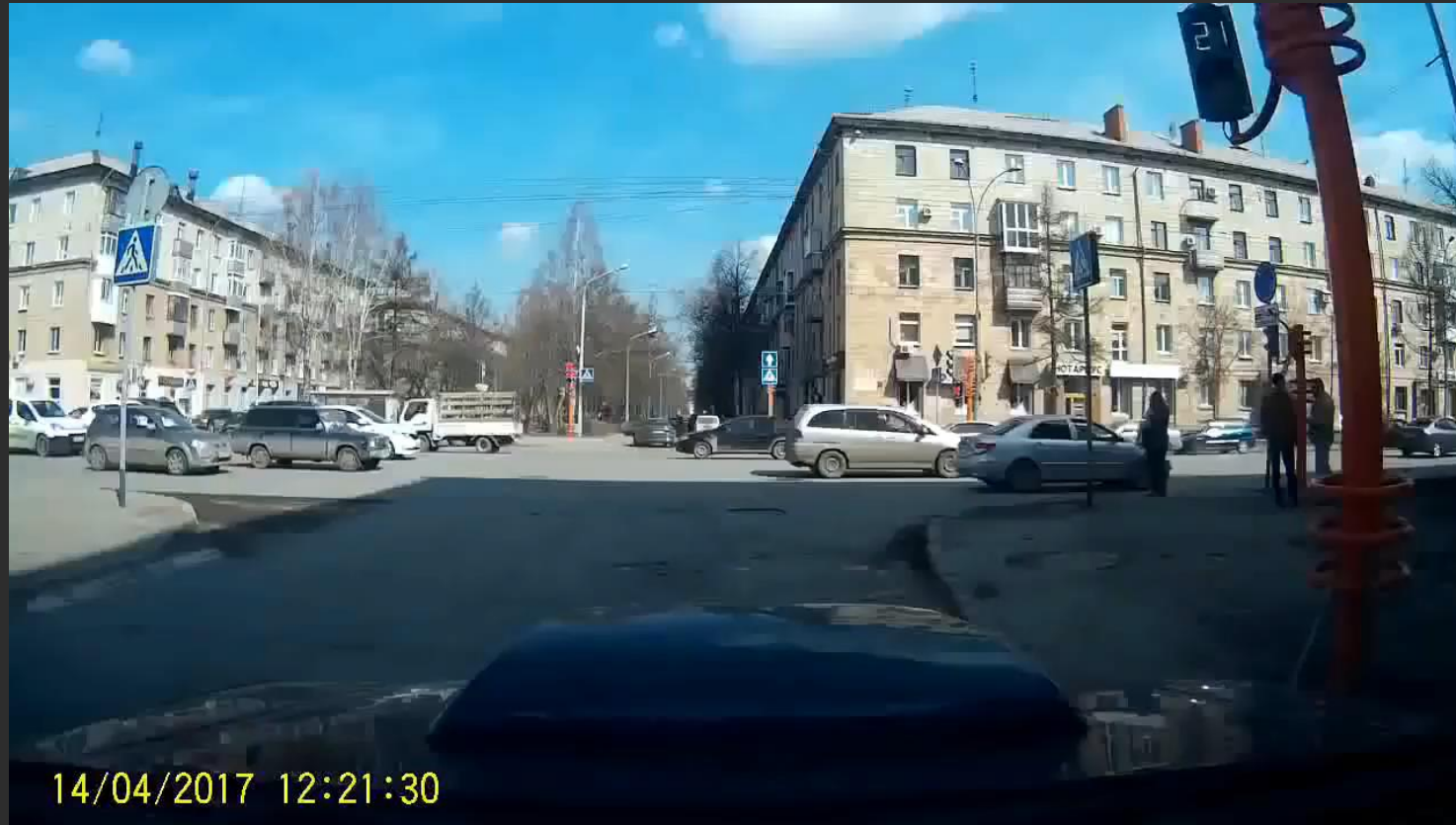
BUT WHO NEEDS DEVOPS?

The Myth of too Much Overhead!



THIS IS WHY YOU NEED DEVOPS!

Human Failure!



WHAT IS DEVOPS

Three People, Five Opinions

„DevOps is development and operations **collaboration**”

„DevOps is using **automation**”

„DevOps is **small** deployments”

It's DevOps!

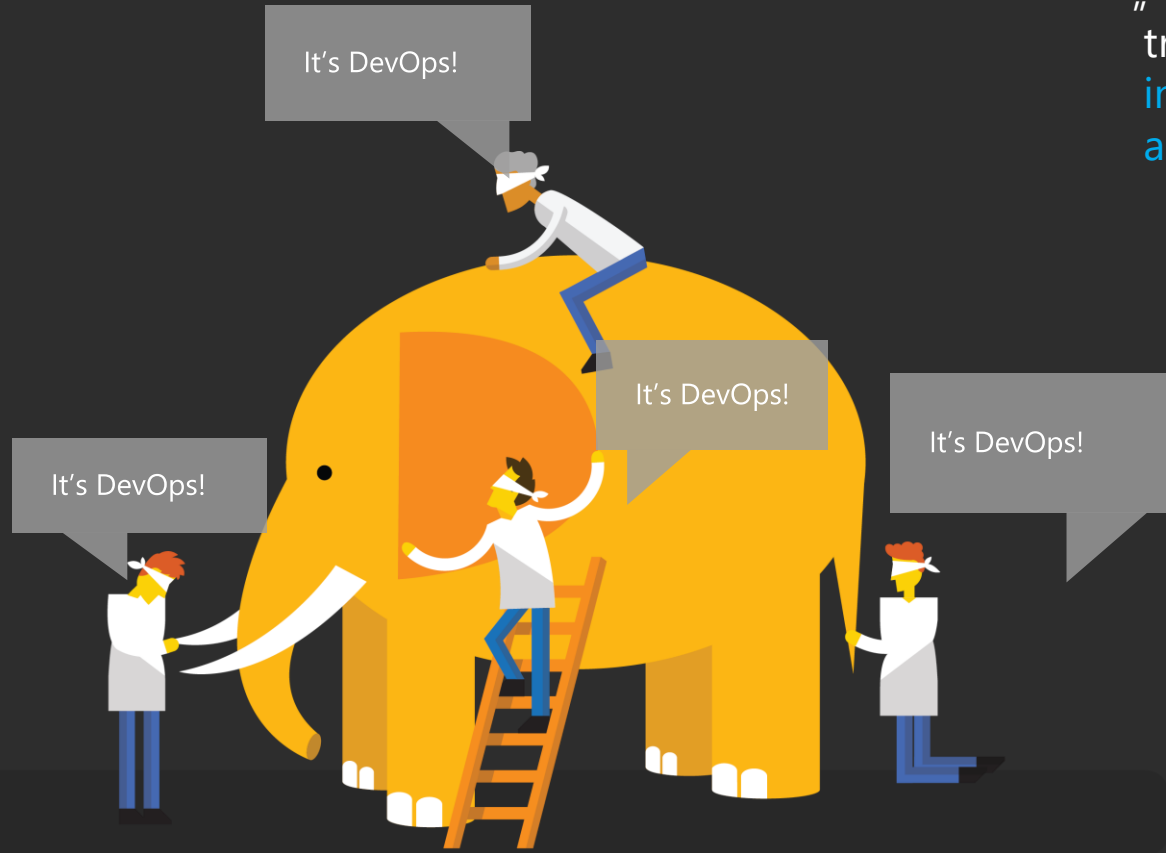
It's DevOps!

It's DevOps!

„DevOps is treating your **infrastructure as code**”

„DevOps is feature **switches**”

„Kanban for Ops”



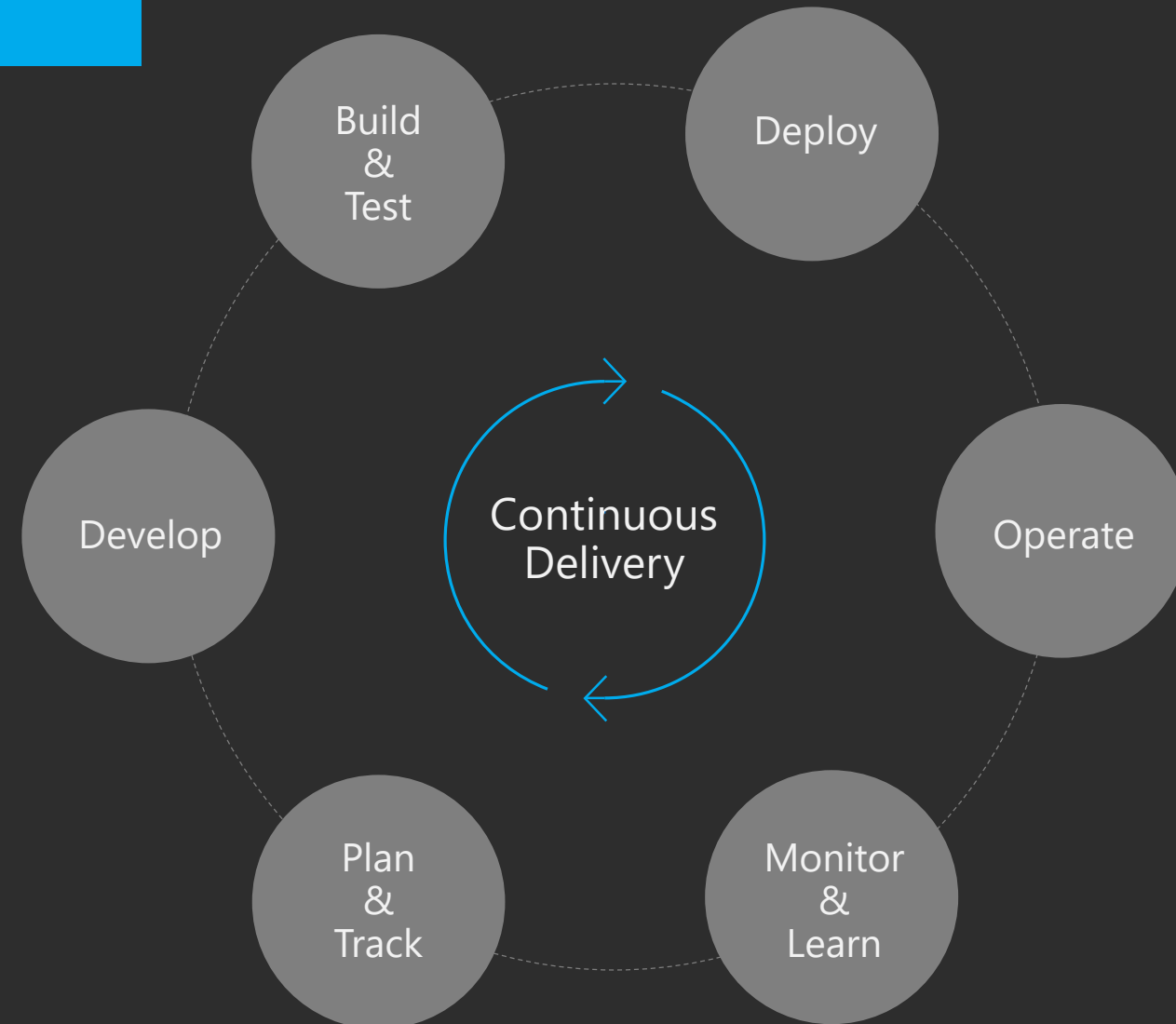
What is DevOps?

People. Process. Products



DevOps is the union of **people**, **process**, and **products** to enable continuous delivery of value to your end users. ”

- Donovan Brown -



DevOps: a Three Stage Conversation

PROCESS and PRODUCTS enable PEOPLE

80%

15%

5%

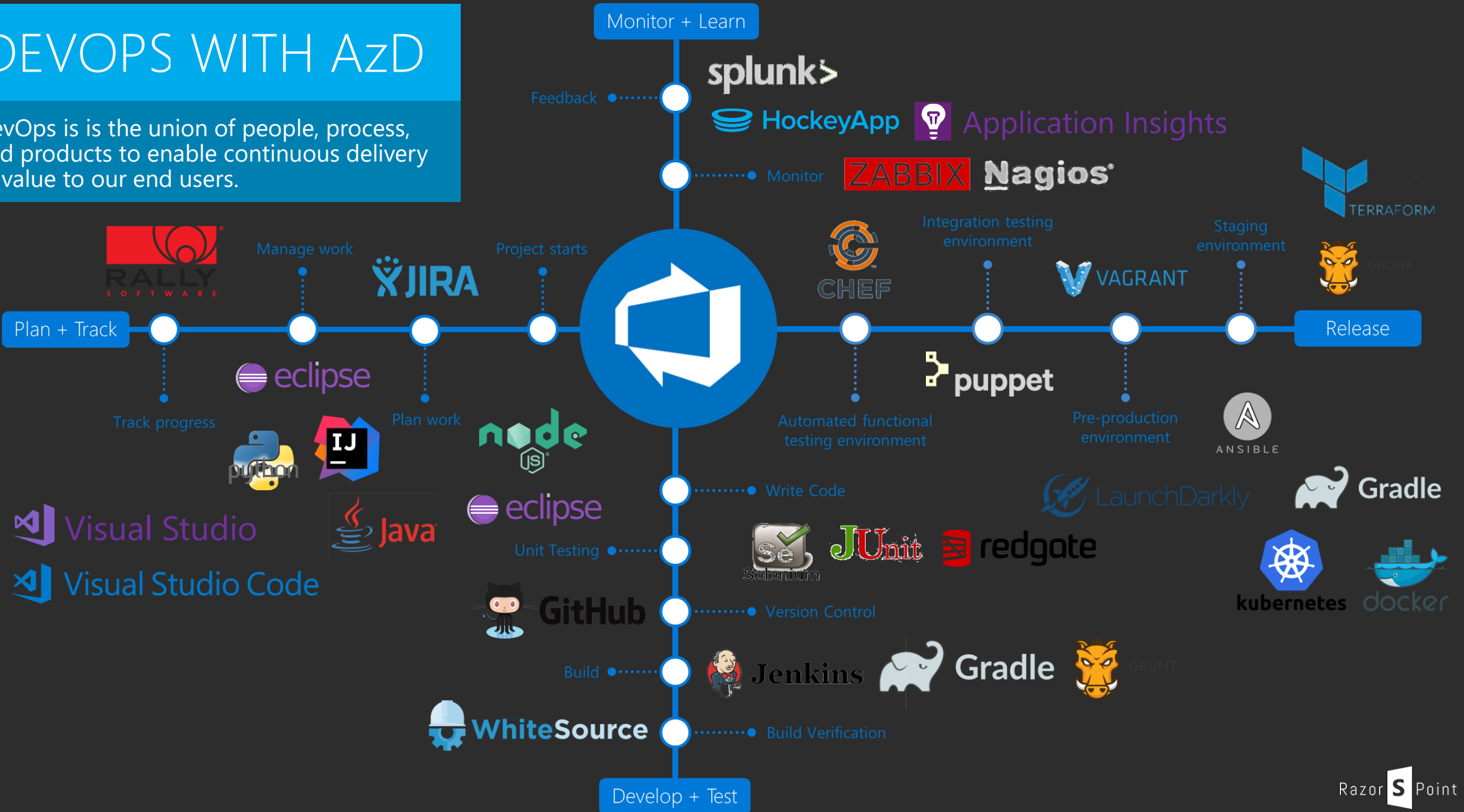
1 People

2 Processes

3 Products

DEVOPS WITH AzD

DevOps is the union of people, process, and products to enable continuous delivery of value to our end users.

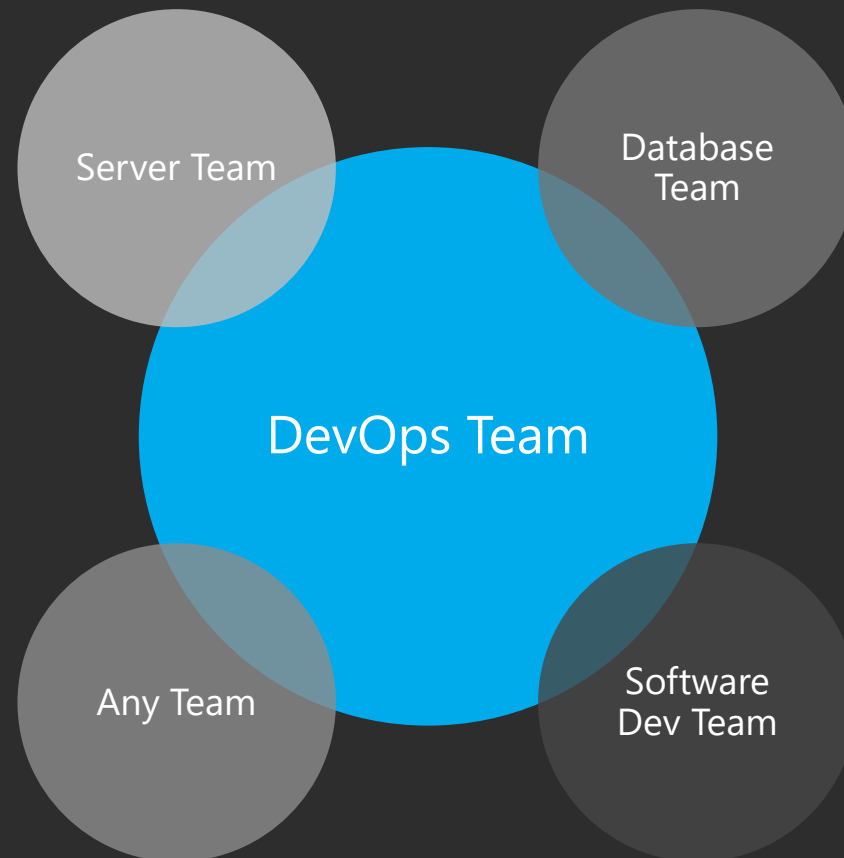


Azure DevOps on Enterprise Level



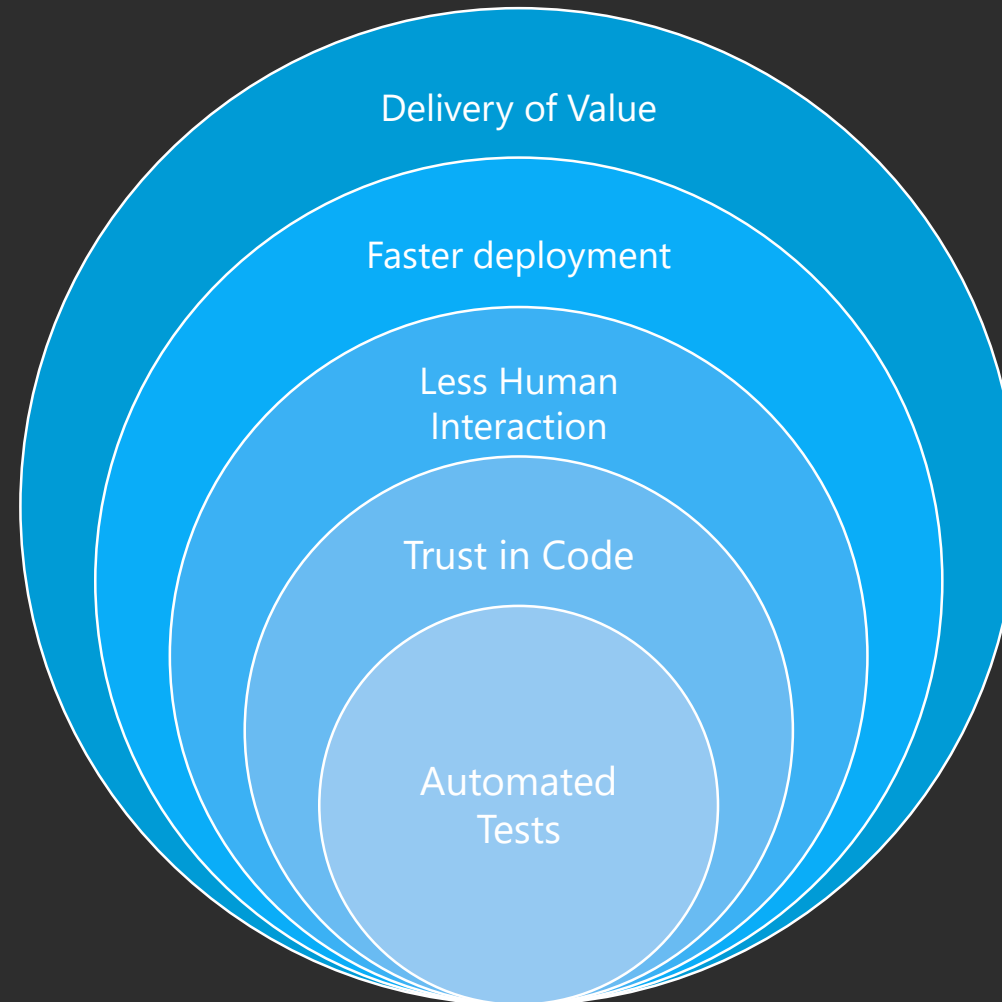
Mindset and Competence

Common DevOps Knowledge is a Must



Trust ↔ Automation

Trust with Tests



Everything As Code

Pipeline as Code, Infrastructure as Code, Whatever as Code

○ Infrastructure as Code (IaC)

- Less documentation / code is it's own documentation
- Fast redeploy / update of Infrastructure without human interaction
- Disaster recovery
- Shift infrastructure to other locations faster
- Reusability of standardized Infrastructure

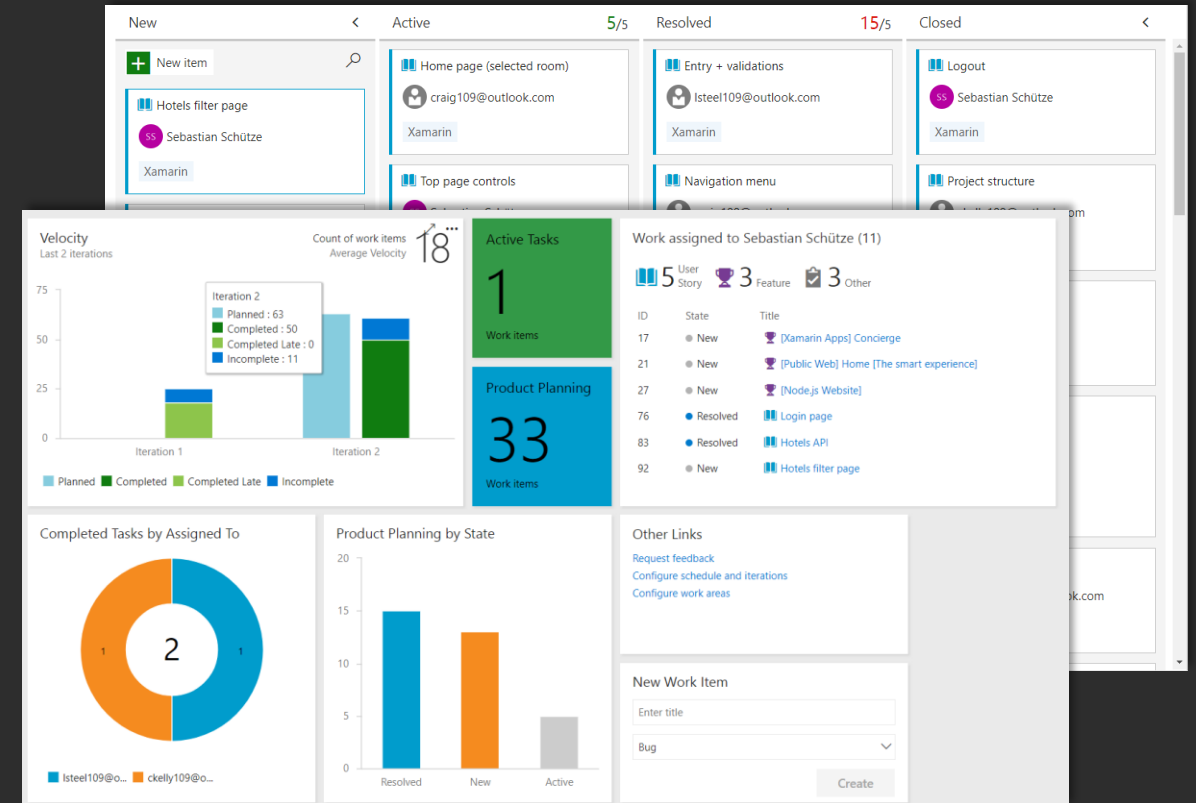
○ Pipelines as Code (PaC)

- Applies for Infrastructure AND software deployment
- Same advantages as IaC

Azure Boards

„Work, work, work, work, work“ – Rihanna (2016)

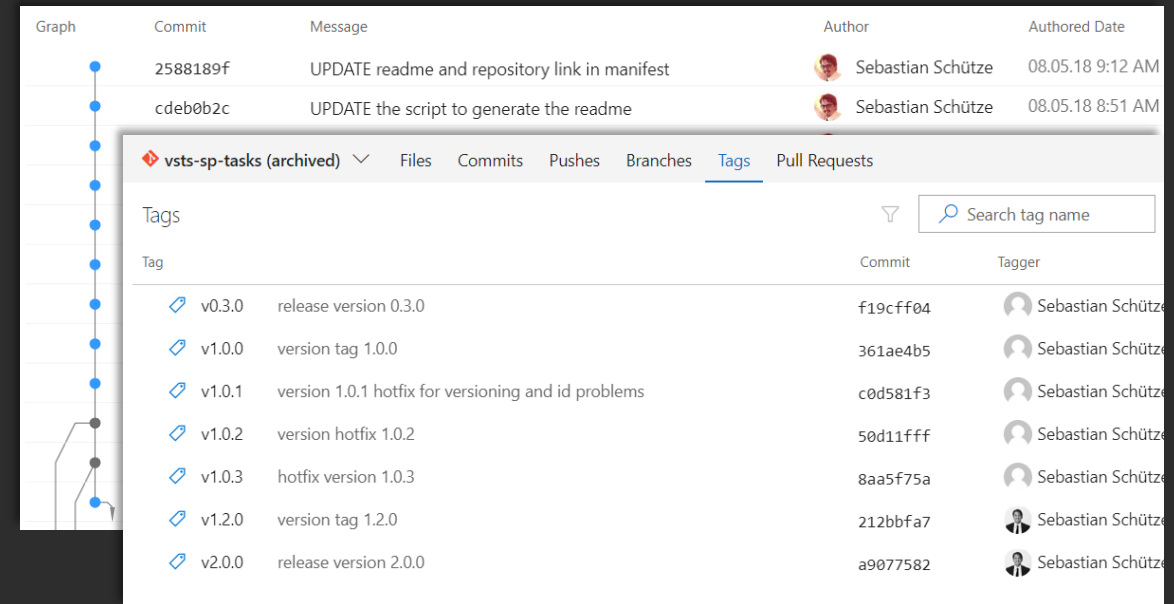
- Processes CMMI, Agile & Scrum
- Full End-2-End Tracking
- Completely Adjustable data model
- Resource planing for Teams



Azure Repos

Developer, Developer... Ach nein, CODE!

- Supports Git and TFVC
- detailed overview of history
- governance with branch policies
- semantic code search



The screenshot displays the Azure Repos web interface. On the left, a 'Graph' view shows a commit history with blue and black dots. The main area is divided into two sections. The top section shows a list of recent commits with columns for 'Commit', 'Message', 'Author', and 'Authored Date'. The bottom section, titled 'Tags', shows a list of version tags with columns for 'Tag', 'Commit', and 'Tagger'. A search bar is visible in the top right of the tags section.

Commit	Message	Author	Authored Date
2588189f	UPDATE readme and repository link in manifest	Sebastian Schütze	08.05.18 9:12 AM
cdeb0b2c	UPDATE the script to generate the readme	Sebastian Schütze	08.05.18 8:51 AM

Tag	Commit	Tagger
v0.3.0	release version 0.3.0	Sebastian Schütze
v1.0.0	version tag 1.0.0	Sebastian Schütze
v1.0.1	version 1.0.1 hotfix for versioning and id problems	Sebastian Schütze
v1.0.2	version hotfix 1.0.2	Sebastian Schütze
v1.0.3	hotfix version 1.0.3	Sebastian Schütze
v1.2.0	version tag 1.2.0	Sebastian Schütze
v2.0.0	release version 2.0.0	Sebastian Schütze



Azure Pipelines - Build

Aus jeder Quelle in jeder Sprache

- cross platform compatible
- source code from: AzD, GitHub, SubVersion or any GIT repo
- Detailed logs
- Tracking of commits / work items



Run gulp package-solution task | Previous task | Next task | Download log

2018-05-13T10:34:51.2215678Z ##[section]Starting: Run gulp package-solution task

Bahn-TeamCalendarDemo-CI 0.1.0-unstable.4

Manual build · develop · d8f6201 : updated webpart icon · Retained by release

Builds Releases Library Task Groups Deployment Groups

Progression

Build process succeeded 0 error(s) / 2 warning(s)

No test result files matching D:\a\1\s**\TEST-*.xml were found, so publishing JUnit test results is being skipped.

No test result files matching D:\a\1\s**\TEST-*.xml were found, so publishing JUnit test results is being skipped.

SPIX

Manually queued Sebastian Schütze (Tuleva AG) requested 4 weeks ago

Associated changes 1 commit(s)

updated webpart icon Sebastian Schütze authored · d8f6201 4 weeks ago

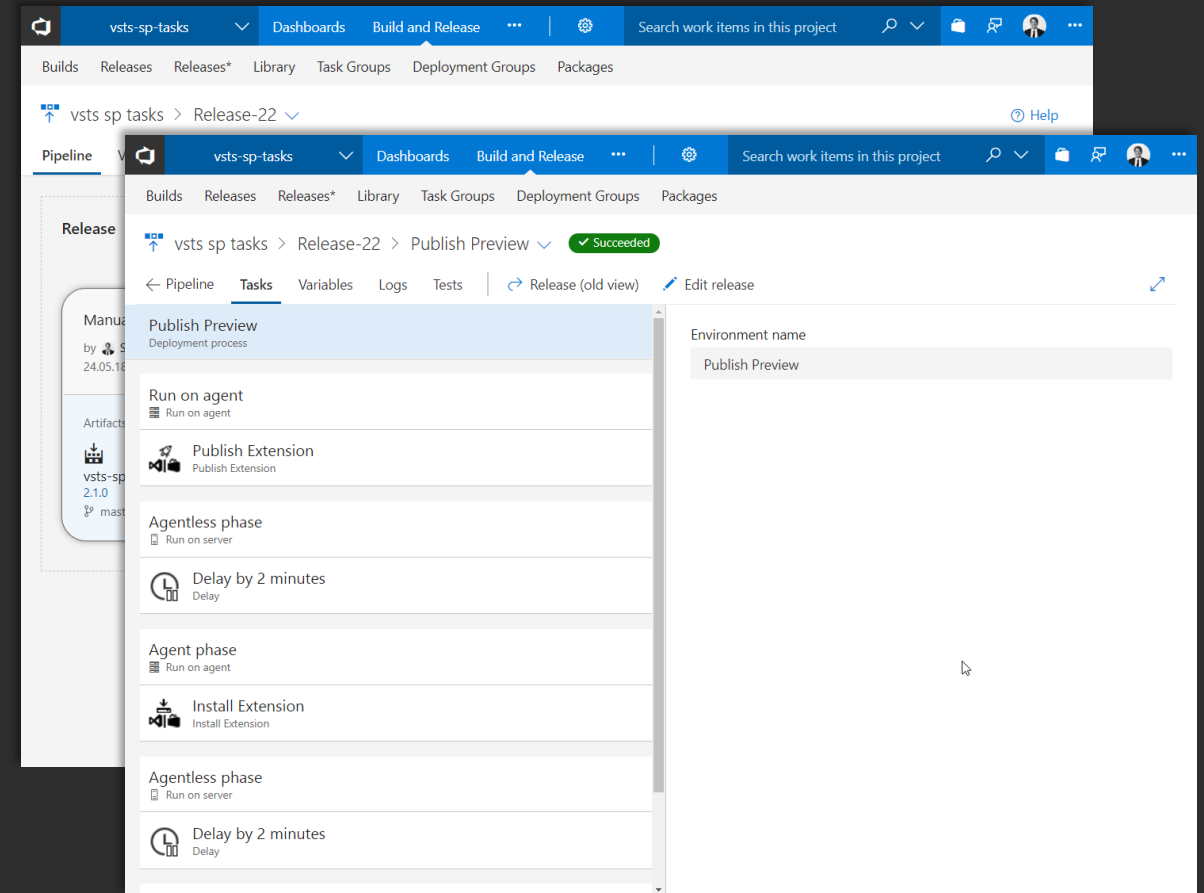
Code Coverage

No build code coverage data available.

Azure Pipelines - Release

Für jedes Ziel verteilen

- Platform independent for CD
- Cross platform SaaS Agents
- Deployment parallel or linear, in groups or in single
- Pre- & post-approvals for CD



Azure Test Plans

Mehr Qualität und Kundenzufriedenheit

- Unit Tests
- Exploratory Testing
- Test plan
- Acceptance Tests

The screenshot displays the Azure Test Plans interface. On the left, the 'Test Results' section shows a 'Completed Runs' donut chart with 4 tests passed and 0 failed. The 'Build succeeded' banner indicates a successful build for 'FabrikamFiber' (Build 2.1.0) completed 14 days ago. The main area shows the 'Test suite: Escalate a support ticket' with a list of tests and their outcomes.

Outcome	Order	ID	Title
In pro...	1	2586	Escalate support
Failed	2	2587	Automatic escalat
Blocked	3	2588	L4 esclation supp
Failed	4	2589	L5 esclation only
Passed	5	3056	Grant users coup

The right side of the screenshot shows a detailed view of a test step: '1. Setup VPN and open support portal'. It includes a sub-step '1.1 Open the customer support portal' with a comment 'Navigate link broken...' and a screenshot of a 'TicketsTab.PNG'.





QUESTIONS?