



The People and Process Side With Azure DevOps

Tessan Group – Tunisia Dev Days – Tunis - November 2024

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YOUR TRUST PARTNER

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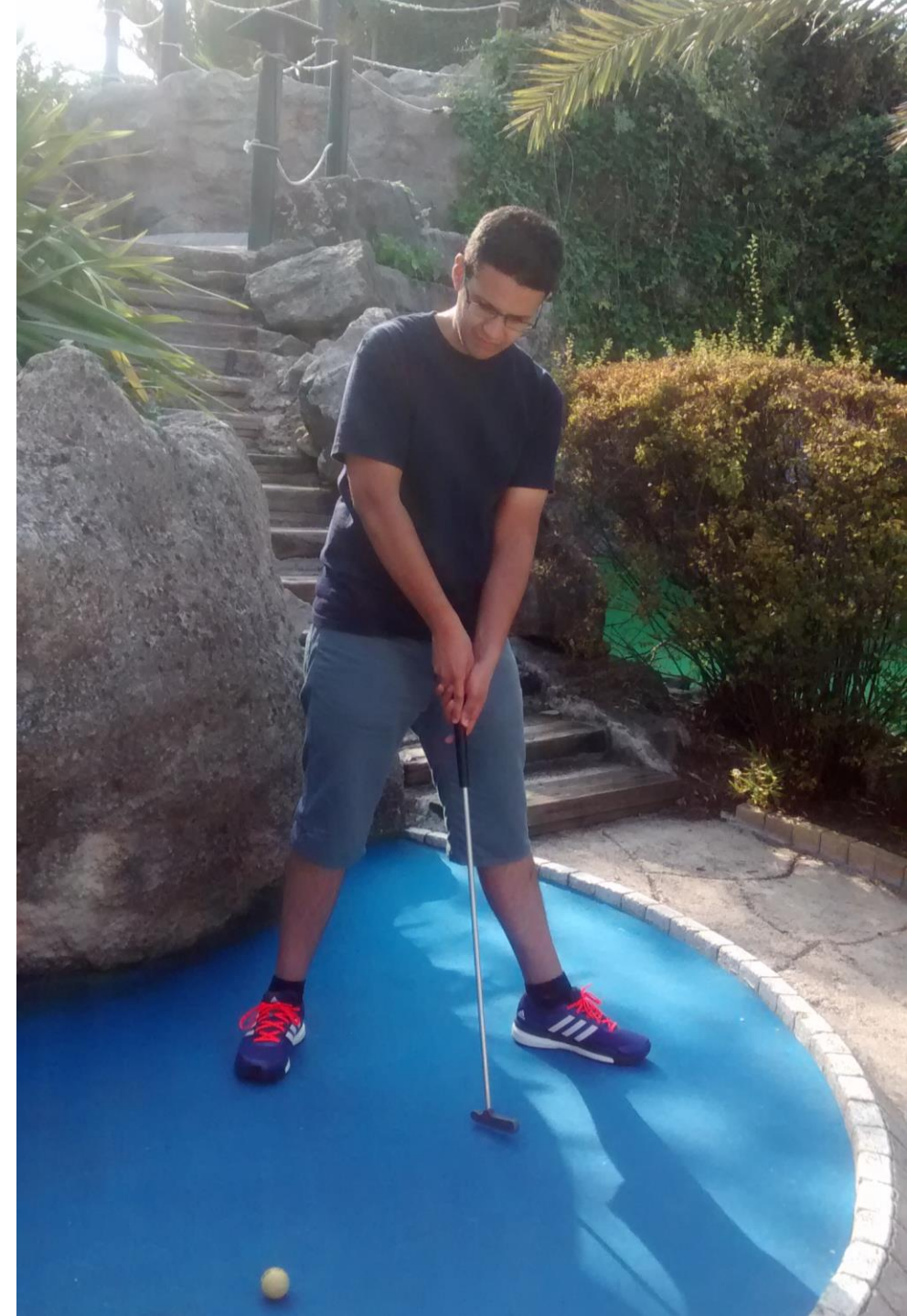
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Outline

- DevOps is Not Only Technical Capabilities
- Azure DevOps

DevOps is Not Only Technical Capabilities

Technical Capabilities

- Version Control
- CI/CD
- Test Automation
- Containers
- Kubernetes
- Cloud

Is this DevOps?

- Dev Team **has CD to Dev Environments**
- Operations Team **is using Kubernetes on the Cloud** to host the application

Meanwhile...

- Operations Team and Dev Team **uses different continuous deployment tools**
- Tools are **not integrated enough**
- Deployment to production requires **too much manual validation**

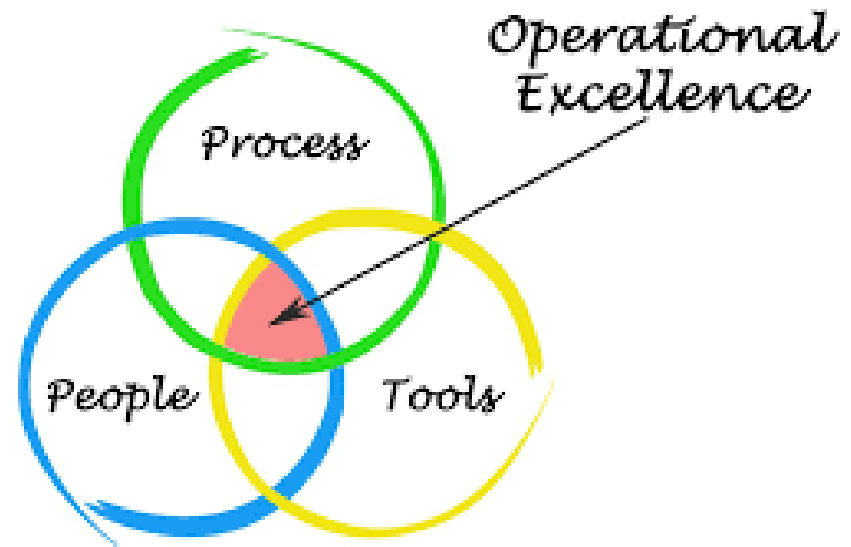
What is DevOps?

According to Microsoft: 'DevOps is **the union of people, process, and technology** to continually provide **value to customers.**'

A Personal Definition

According to Chedy: 'DevOps **is a Culture** of consolidation between silos, to establish collaboration models **accelerating value delivery** from specification to production, **from concept to cash.**'

People, Process and Tools



What to do about People ?

- People can be:
 - Fixed Mindset
 - Risk/Change Averse
 - Feel Threatened
- Educate
- Reassure
- Establish Trust
- Facilitate Communication & Collaboration

What to do about Process ?

- Defined
- Iterative
- Setup for Fast Feedback
- Includes the entire value stream

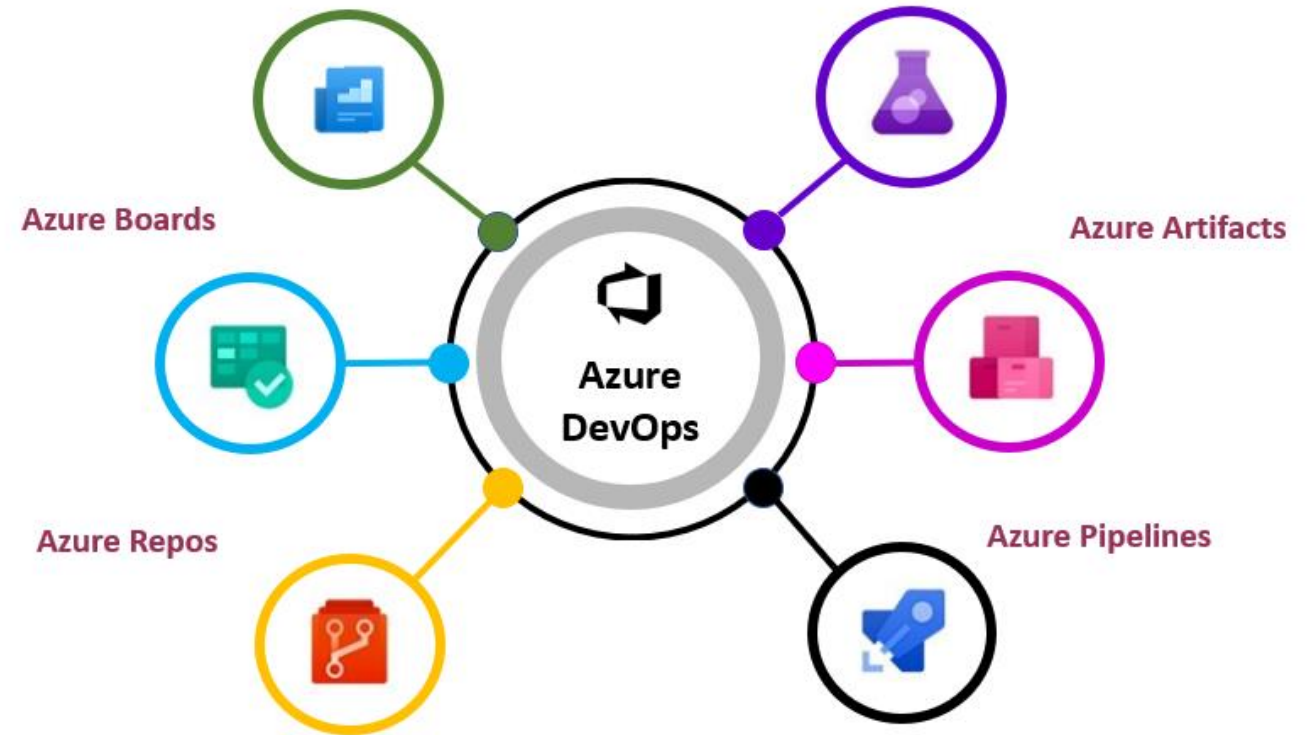
Tools are
important still

- Improves Productivity
- Eliminates Career Limiting Work
- Decreases the need for Heavy Process

Azure DevOps

Application Lifecycle Management

Collaboration Tools - Overview



Azure Boards

- **Manage Work**
- **Visualize Work**
- **Communicate About Work**

Azure Boards – Work Items

The screenshot displays an Azure Boards work item interface. At the top, the work item is titled '535 Missing reports' and is assigned to 'Jamal Hartnett'. It has 0 comments and an 'Add tag' button. The 'State' is 'New', and the 'Reason' is 'Moved to state New'. The 'Area' is 'Fabrikam Fiber', which is highlighted with a red box. The 'Iteration' is also 'Fabrikam Fiber'. Below the metadata, there is a 'Description' field with a rich text editor and a 'Discussion' section with a text input field, both highlighted with red boxes. The right sidebar contains sections for 'Customer Focus' (Customer Ticket 897090), 'Development' (with an 'Add link' button and a message 'Development hasn't started on this item.'), and 'Related Work'.

TICKET 535*

535 Missing reports

Jamal Hartnett 0 Add tag Save Follow ...

State ● New Area Fabrikam Fiber

Reason Moved to state New Iteration Fabrikam Fiber

Details [Clock] [Link] [Attachment]

Description

B I U [Link] [Image] [List] [Table] [Code] [Quote] [Image]

Discussion

Add a comment. Use # to link a work item or @ to mention a person

Customer Focus

Customer Ticket 897090

Development

+ Add link
Development hasn't started on this item.

Related Work

[Link] [Dropdown]

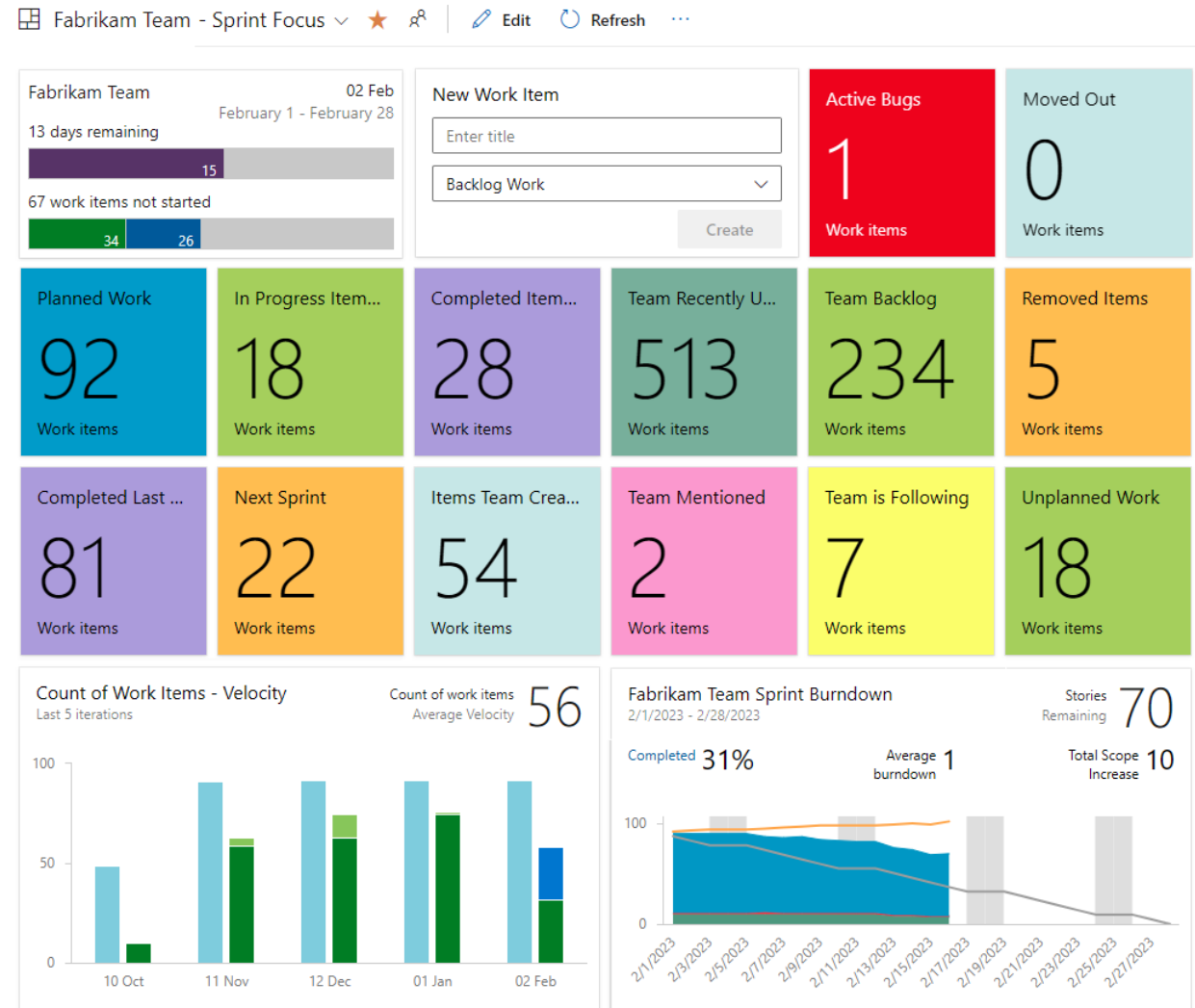
Azure Boards – Visualizations

Backlog	Analyze 4/10	Develop 8/5		Test 4/5		Done
<div>+ New item</div> <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div></div>	Doing <div><div></div><div></div><div></div><div></div></div>	Done <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	Doing <div><div></div><div></div></div>	Done <div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

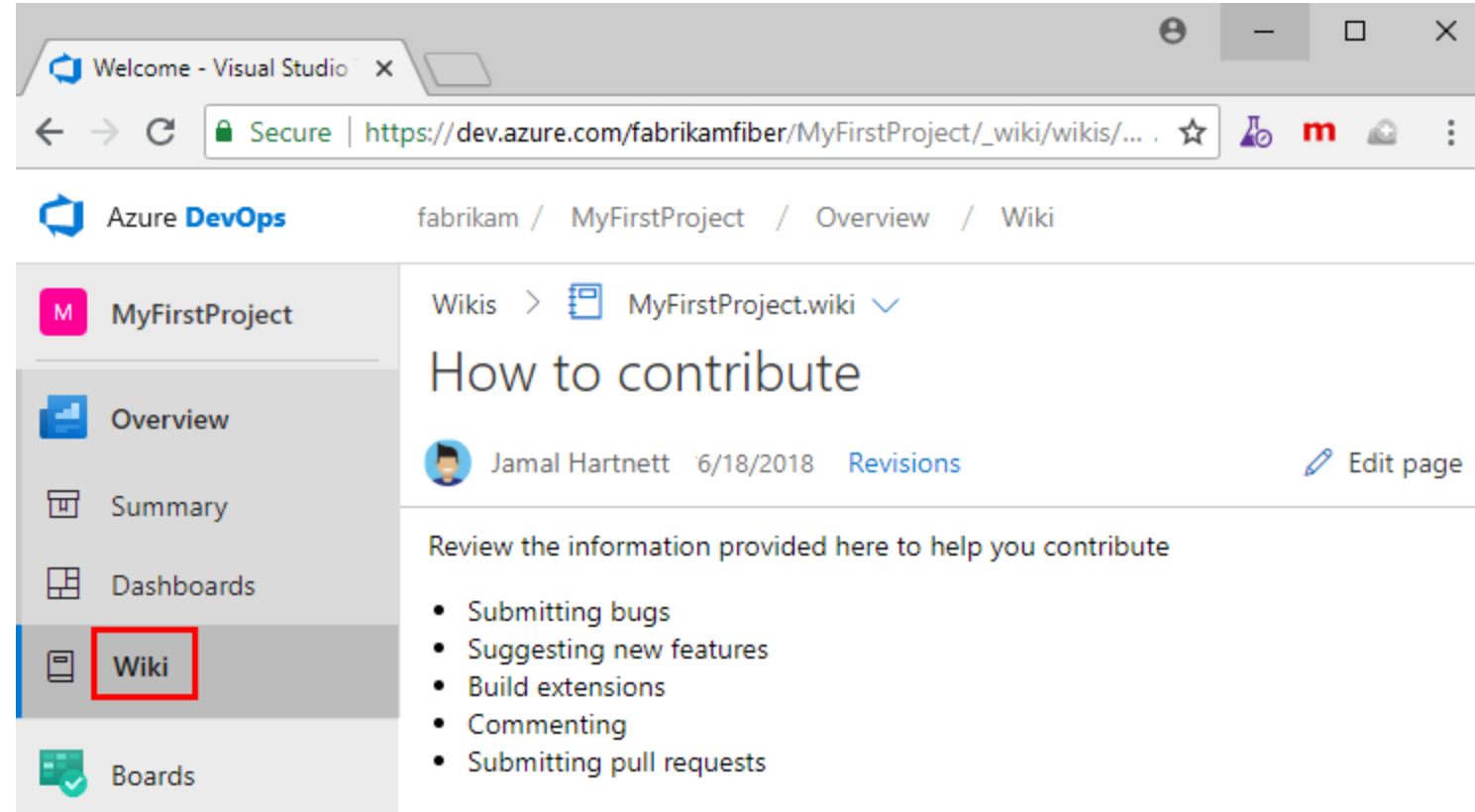
Azure Boards – Customization

- **Customize Work Item Types**
- **Customize Work Item Fields**
- **Flexible Iteration and Area Configuration**

Collaboration Tools - Dashboards



Collaboration Tools - Wiki



Integration With Other Tools

- Marketplace Extensions
- Power Automate
- Build your own Extension
- API and WebHooks

Azure Repos

PRODUCT BACKLOG ITEM 478

478 Enhanced Continuous Integration Pipeline for [REDACTED] Infrastructure

AM [REDACTED] 9 Comments Phase1 x + Save Follow [REDACTED] 17 Jun 2023

State ● Committed Area [REDACTED]


Reason 🔒 Commitment made by the Iteration [REDACTED] Sprint 1


Details 15 0

Development


Add link

Pull Request


 AM 61 test
Updated ... ✖ Abandoned...

 AM 66 Enhanced Continuous I...
Updated 2 ... 🔄 Active...

Branch

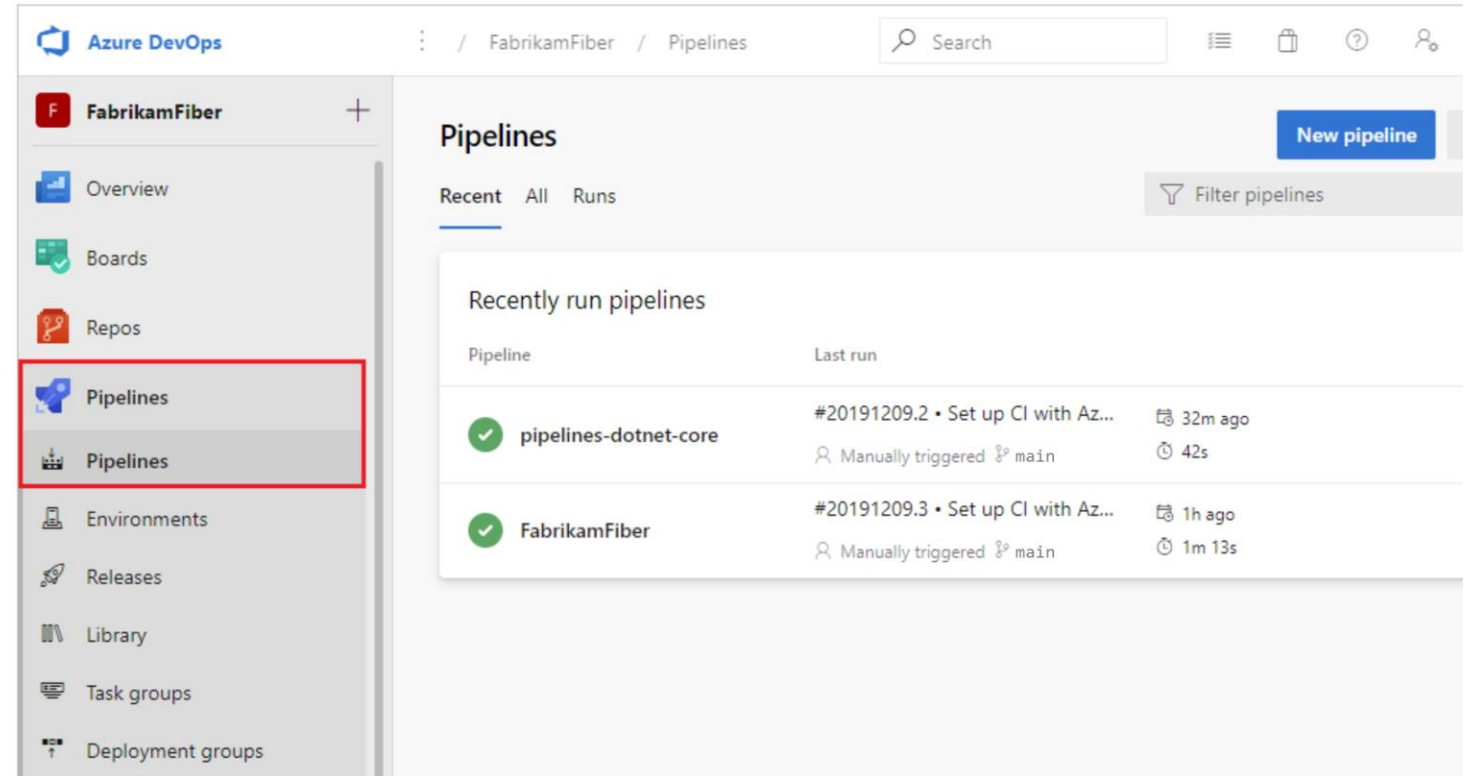
 AM feature/478-Enhanced-Con...
Latest commit 8 Jun 2023
[View pull request](#)

Commit



 AM 849ba85 Updated terrafor...
Updated 8 Jun 2023

commented 10 May 2022

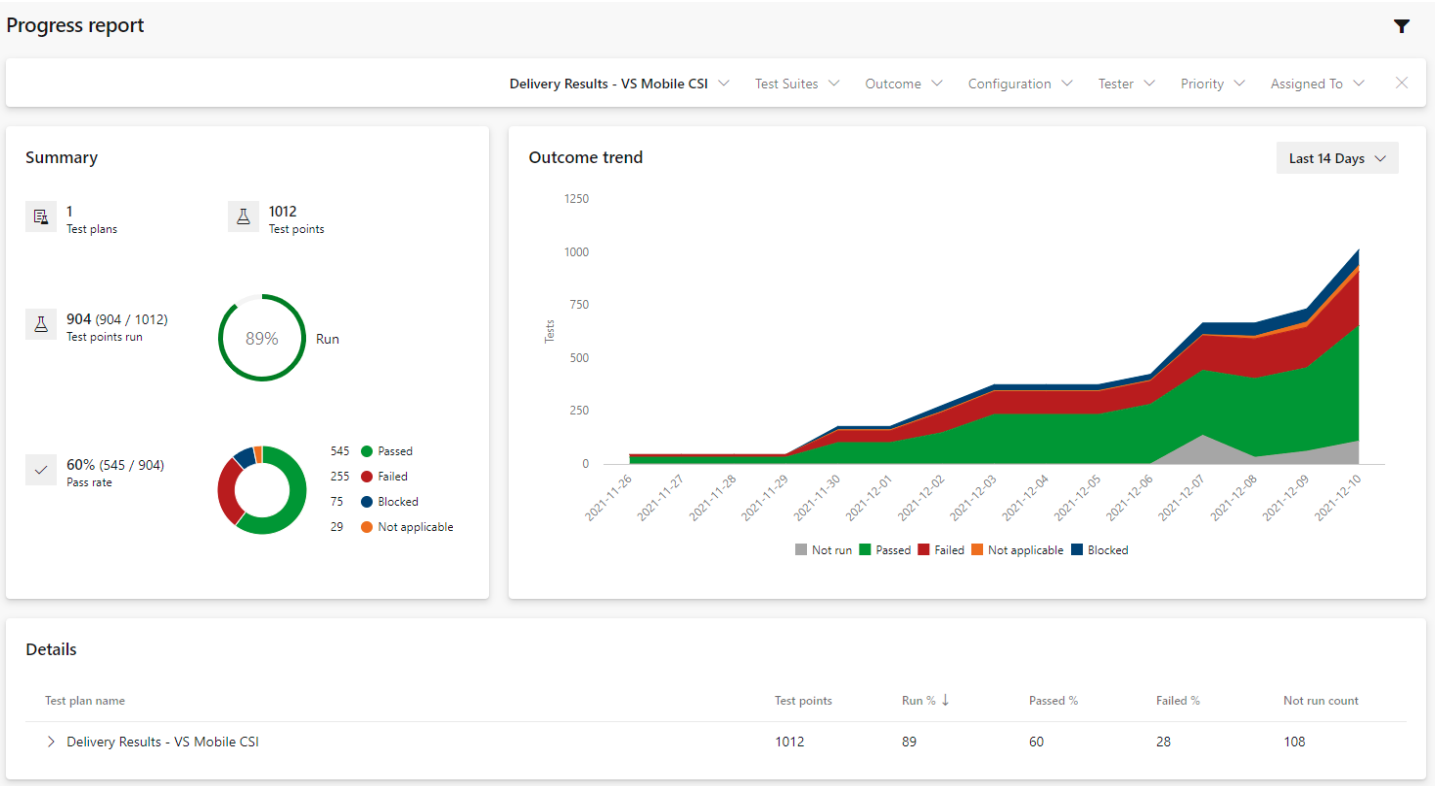
Azure Pipeline



The screenshot shows the Azure DevOps interface for the 'FabrikamFiber' project. The left sidebar contains a navigation menu with the following items: Overview, Boards, Repos, Pipelines (highlighted with a red box), Pipelines (with a sub-menu icon), Environments, Releases, Library, Task groups, and Deployment groups. The main content area is titled 'Pipelines' and includes a 'New pipeline' button and a 'Filter pipelines' dropdown. Below this, there is a section for 'Recently run pipelines' with a table showing the following data:

Pipeline	Last run
 pipelines-dotnet-core	#20191209.2 • Set up CI with Az... Manually triggered main 32m ago 42s
 FabrikamFiber	#20191209.3 • Set up CI with Az... Manually triggered main 1h ago 1m 13s

Azure Test Plan



Azure Artifacts

- **Software Artifact Repository**
- **Artifacts are linked to builds and Commits**
- **Supports most package management systems**

Questions ?