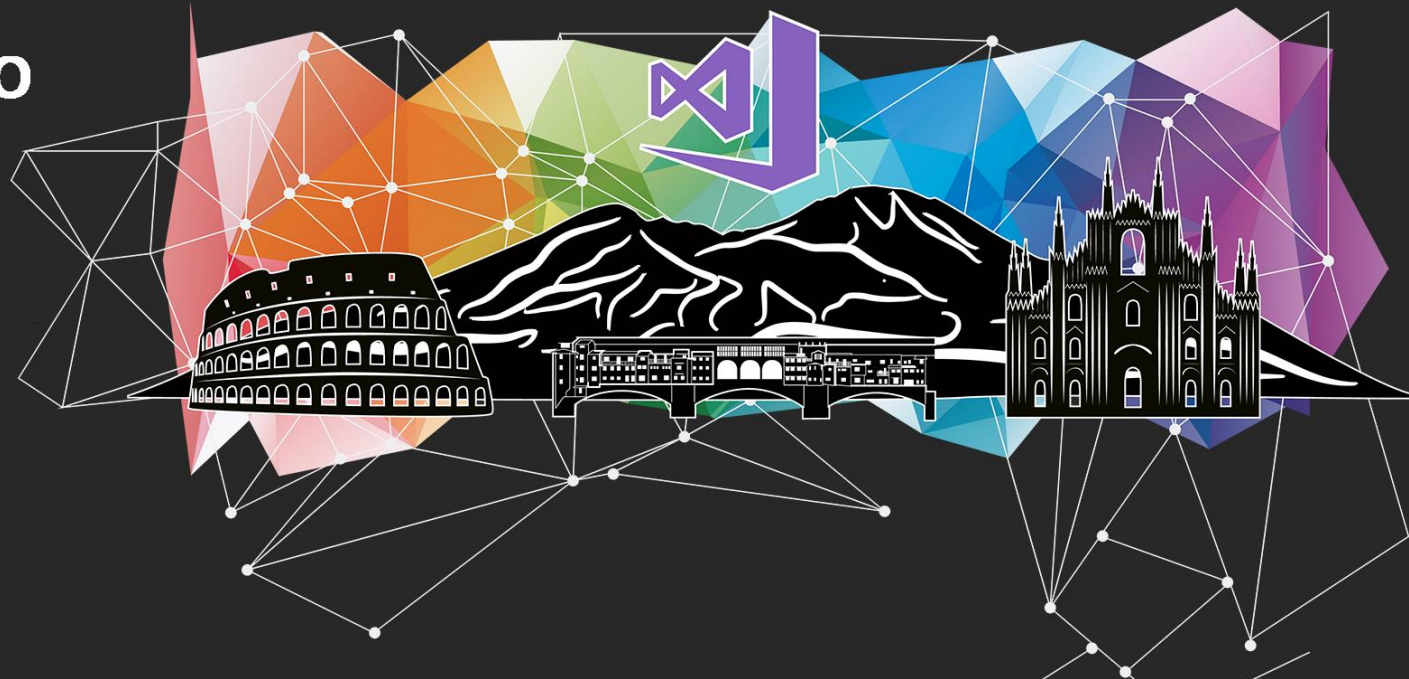


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## VISUAL STUDIO <3 DEVOPS

**Massimo Bonanni**

Paranormal Developer, with the head in the Cloud and all the REST in microservices!



Community



---

Sponsor





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## Azure Boards

Deliver value to your users faster using proven agile tools to plan, track, and discuss work across your teams.



## Azure Test Plans

Test and ship with confidence using manual and exploratory testing tools.

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# INTRODUCING AZURE DEVOPS



## Azure Pipelines

Build, test, and deploy with CI/CD that works with any language, platform, and cloud. Connect to GitHub or any other Git provider and deploy continuously.



## Azure Artifacts

Create, host, and share packages with your team, and add artifacts to your CI/CD pipelines with a single click.

<https://azure.com/devops>



## Azure Repos

Get unlimited, cloud-hosted private Git repos and collaborate to build better code with pull requests and advanced file management.





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# AZURE PIPELINES

Cloud-hosted pipelines for Linux, Windows and macOS, with unlimited minutes for open source



## Any language, any platform, any cloud

Build, test, and deploy Node.js, Python, Java, PHP, Ruby, C/C++, .NET, Android, and iOS apps. Run in parallel on Linux, macOS, and Windows. Deploy to Azure, AWS, GCP or on-premises



## Extensible

Explore and implement a wide range of community-built build, test, and deployment tasks, along with hundreds of extensions from Slack to SonarCloud. Support for YAML, reporting and more



## Containers and Kubernetes

Easily build and push images to container registries like Docker Hub and Azure Container Registry. Deploy containers to individual hosts or Kubernetes.

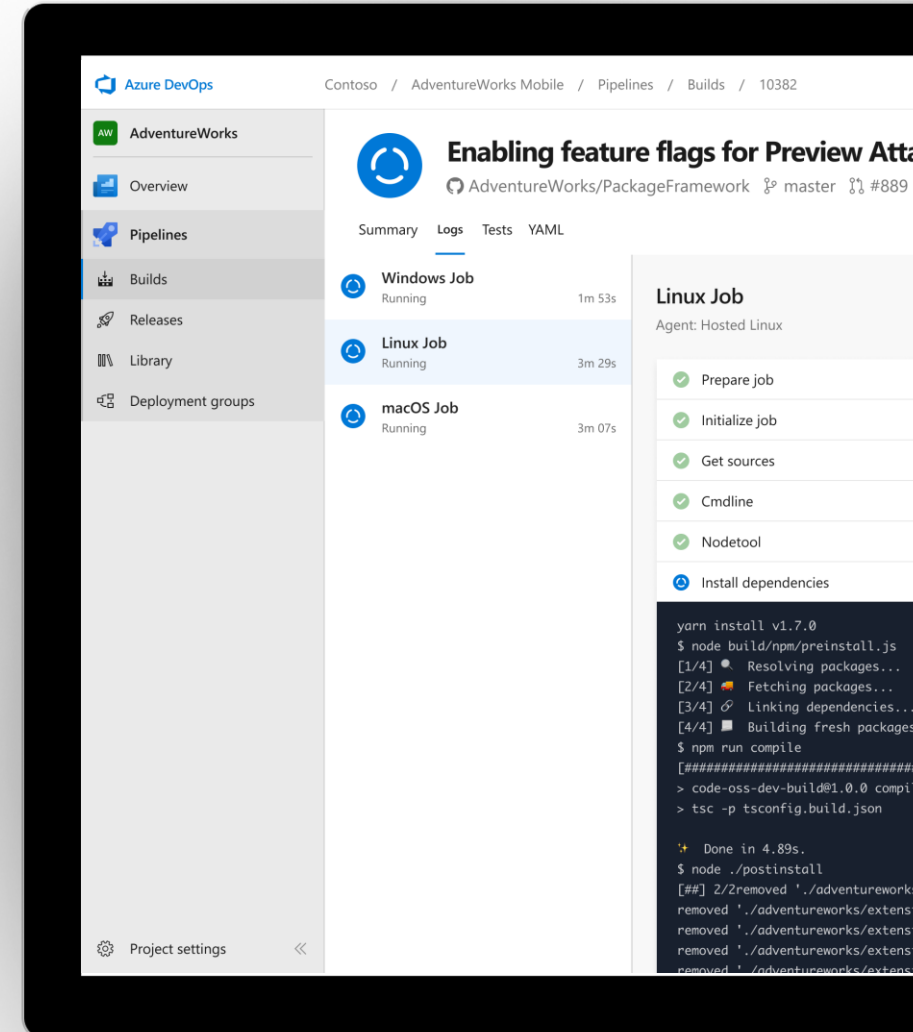


## Best-in-class for open source

Ensure fast continuous integration/continuous delivery (CI/CD) pipelines for every open source project. Get unlimited build minutes for all open source projects with up to 10 free parallel jobs across Linux, macOS and Windows



<https://azure.com/pipelines>





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## AZURE PIPELINES

Free unlimited build  
minutes for public projects

Up to 10 free parallel jobs  
across Windows, Linux and  
macOS



<https://azure.com/pipelines>

Microsoft ❤️ Open Source





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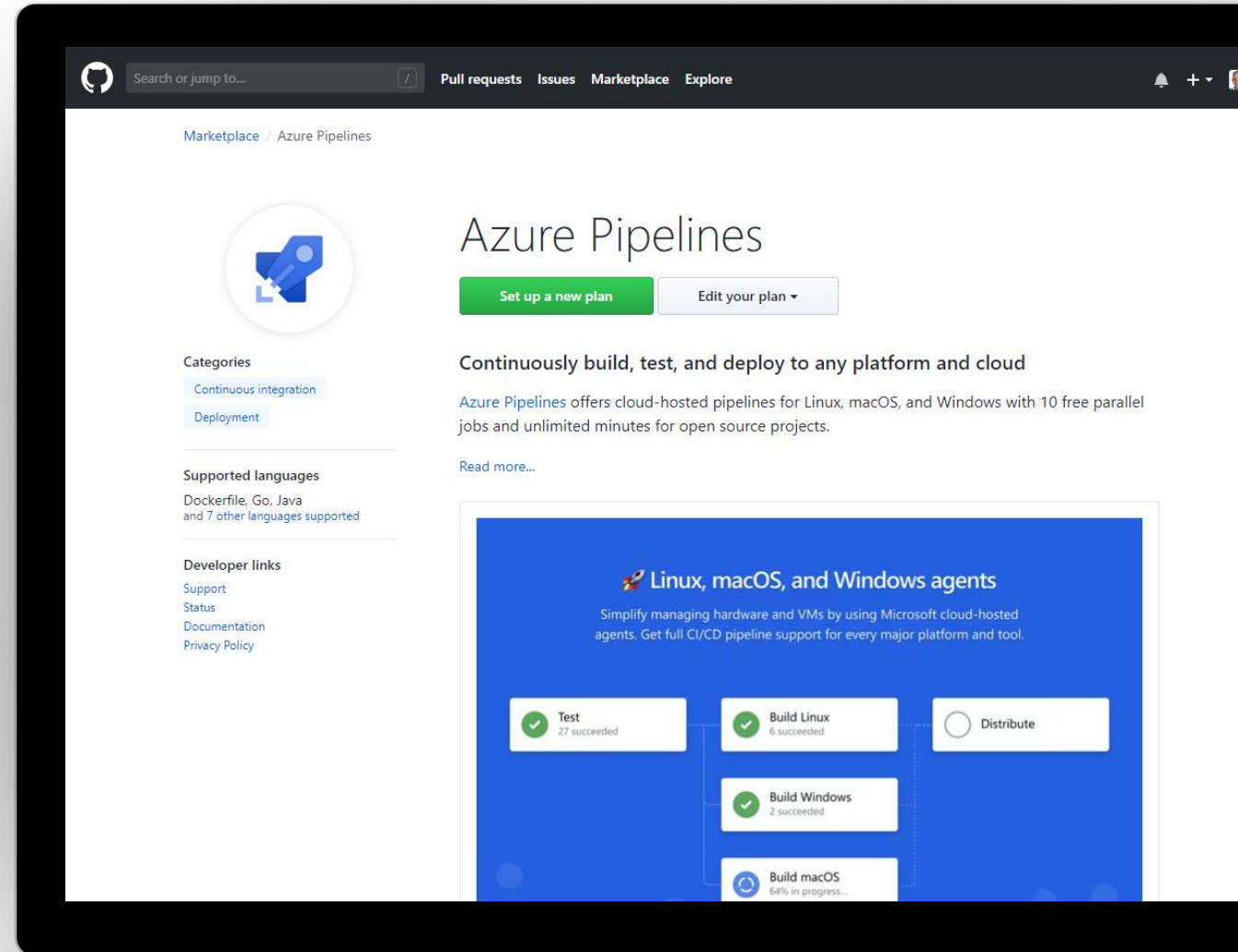


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## INTEGRATED WITH GITHUB

Azure Pipelines  
available now to any  
developer from the  
GitHub Marketplace





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# AZURE BOARDS

Track work with Kanban boards, backlogs, team dashboards, and custom reporting



## Connected from idea to release

Track all your ideas at every development stage and keep your team aligned with all code changes linked directly to work items.



## Scrum ready

Use built-in scrum boards and planning tools to help your teams run sprints, stand-ups, and planning meetings.

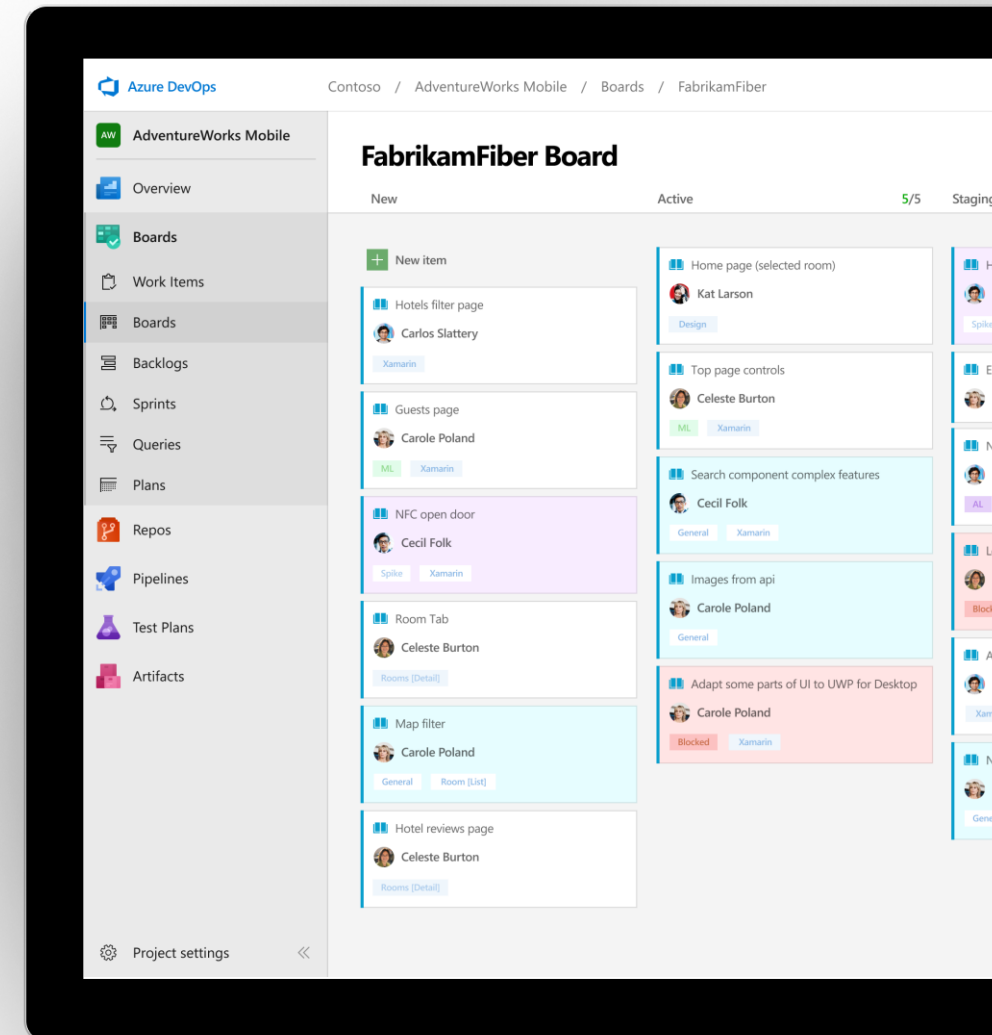


## Project insights

Gain new insights into the health and status of your project with powerful analytics tools and dashboard widgets.



<https://azure.com/devops>





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# AZURE REPOS

Unlimited private Git repo hosting and support for TFVC that scales from a hobby project to the world's largest Git repositories



## Works with your Git client

Securely connect with and push code into your Git repos from any IDE, editor, or Git client.



## Web hooks and API integration

Add validations and extensions from the marketplace or build your own using web hooks and REST APIs.

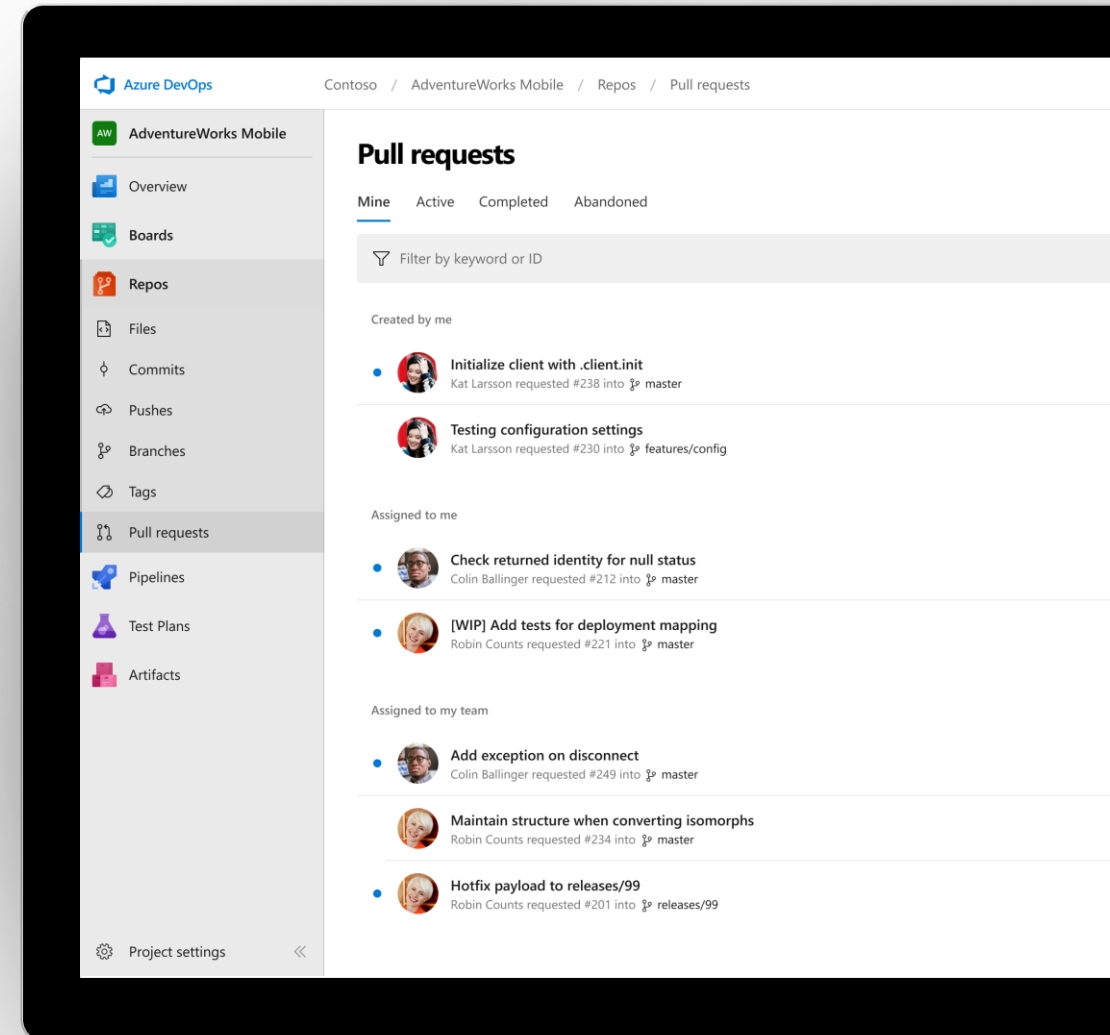


## Semantic code search

Quickly find what you're looking for with code-aware search that understands classes and variables.



<https://azure.com/devops>







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# AZURE TEST PLANS

Get end-to-end traceability. Run tests and log defects from your browser. Track and assess quality throughout your testing lifecycle.



## Capture rich data

Capture rich scenario data as you execute tests to make discovered defects actionable. Explore user stories without test cases or test steps. You can create test cases directly from your exploratory test sessions.



## Test across web and desktop

Test your application where it lives. Complete scripted tests across desktop or web scenarios. Test on-premises application from the cloud and vice-versa.

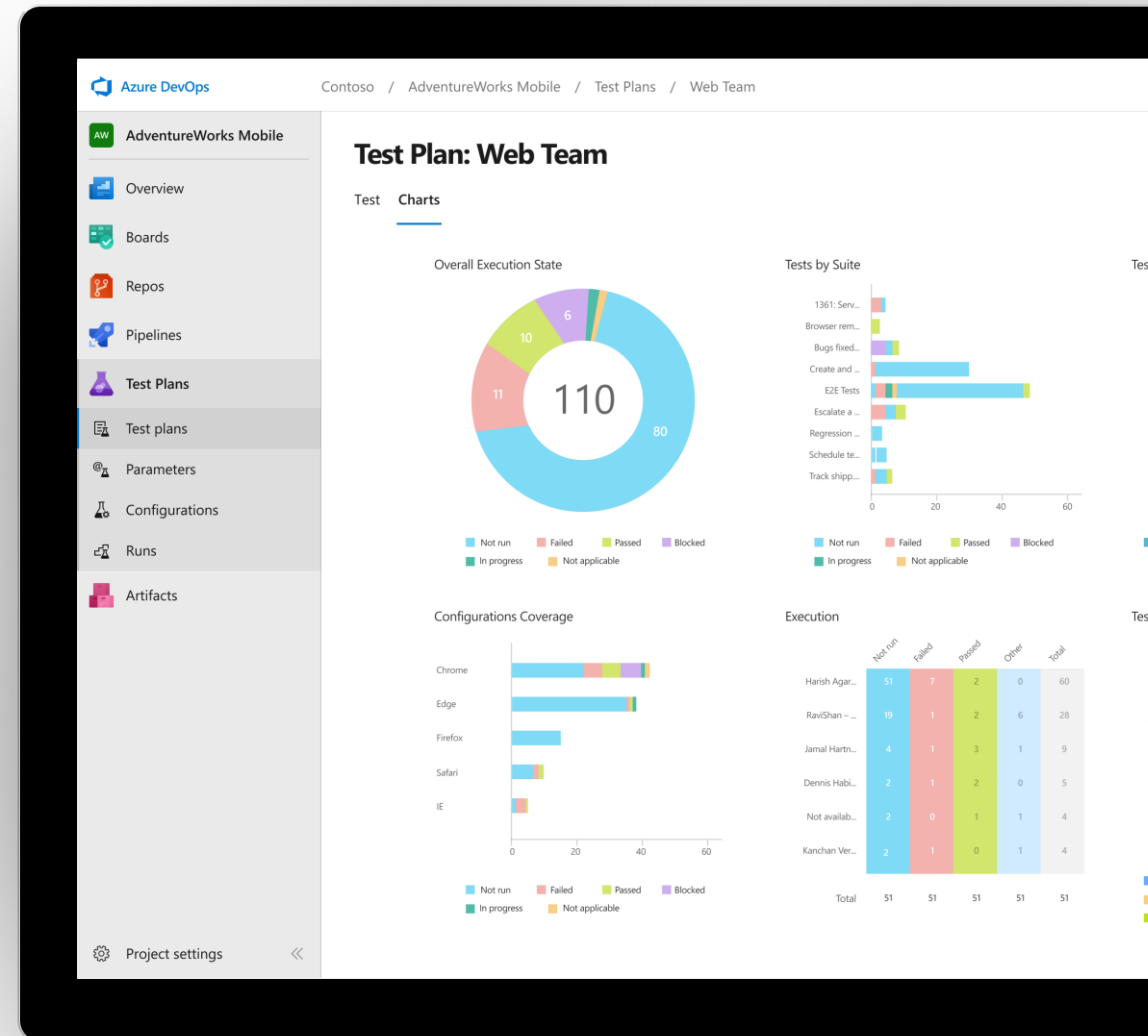


## Get end-to-end traceability

Leverage the same test tools across your engineers and user acceptance testing stakeholders. Pay for the tools only when you need them.



<https://azure.com/devops>







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# AZURE ARTIFACTS

Create and share Maven, npm, and NuGet package feeds from public and private sources – fully integrated into CI/CD pipelines



## Manage all package types

Get universal artifact management for Maven, npm, and NuGet.



## Add packages to any pipeline

Share packages, and use built-in CI/CD, versioning, and testing.

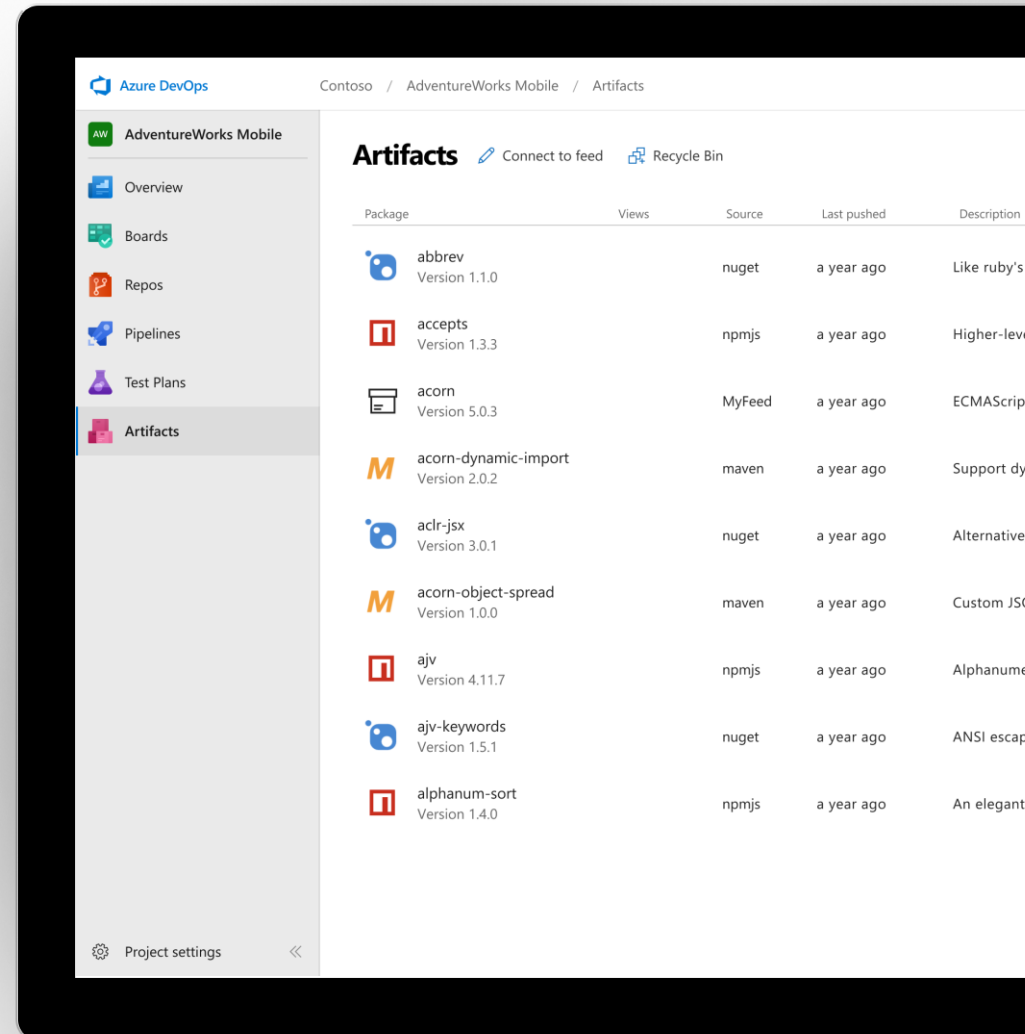


## Share code efficiently

Easily share code across small teams and large enterprises.



<https://azure.com/devops>





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# DEVOPS AT MICROSOFT

Azure DevOps is the toolchain of choice for Microsoft engineering with over 90,000 internal users



<https://aka.ms/DevOpsAtMicrosoft>

372k

Pull Requests per month

4.4m

Builds per month

5m

Work items viewed per day

2m

Git commits per month

500m

Test executions per day

500k

Work items updated per day

78,000

Deployments per day

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# AZURE DEVOPS SERVICES PRICING

## Open Source Projects

Free

Unlimited users and build time

- Azure Pipelines: 10 parallel jobs with unlimited minutes for CI/CD
- Azure Boards: Work item tracking and Kanban boards
- Azure Repos: Unlimited public Git repos

## Small Teams

Free

Start free with up to 5 users

- Azure Pipelines: Run 1 Microsoft-hosted job for 1,800 minutes per month and 1 self-hosted job for any amount of time
- Azure Boards: Work item tracking and Kanban boards
- Azure Repos: Unlimited public Git repos
- Azure Artifacts: package management
- Unlimited stakeholders

## Teams of any size

Starts at \$6

per user, per month for Boards & Repos\*

Easy pricing that grows with your team

- Azure Pipelines: Run 1 Microsoft-hosted job for 1,800 minutes per month and 1 self-hosted job for any amount of time
- Azure Boards: Work item tracking and Kanban boards
- Azure Repos: Unlimited public Git repos
- Azure Artifacts: package management
- Unlimited stakeholders
- Boards & Repos included for Visual Studio subscribers



<https://azure.com/pricing/details/devops/>

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\* 5 Boards & Repos users and 5 Artifacts users free. Pipelines with unlimited minutes, Test Plans users and additional Artifacts users also available. Please see the Azure pricing calculator for details.



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# AZURE DEVOPS LAB


 Azure DevOps



## Azure DevOps Hands-On Labs

Evaluating your next DevOps tool chain? Want to dive deeper and learn how you can implement modern DevOps practice?

Learn to plan smartly, collaborate better, and ship faster with a set of modern development services.



### New to Azure DevOps?

Don't have an account? No worries! Sign up for a **free** Azure DevOps organization now and get


- ✓ Automated CI/CD pipelines
- ✓ Free unlimited private Git repositories
- ✓ Configurable Kanban boards, and
- ✓ Extensive automated and cloud-based load testing tools.


[Sign up for free now](#)


[Azure DevOps](#) [Team Foundation Server](#)


#### Getting started

Simplify and speed up the DevOps process with Azure DevOps services. The following labs will help you to get started with Azure DevOps services to automate software delivery and meet business needs.

 Agile Planning and Portfolio Management with Azure Boards

 Enabling Continuous Integration with Azure Pipelines

 Exploratory Testing with Azure Test Plans

 Managing Technical Debt with Azure DevOps and SonarCloud

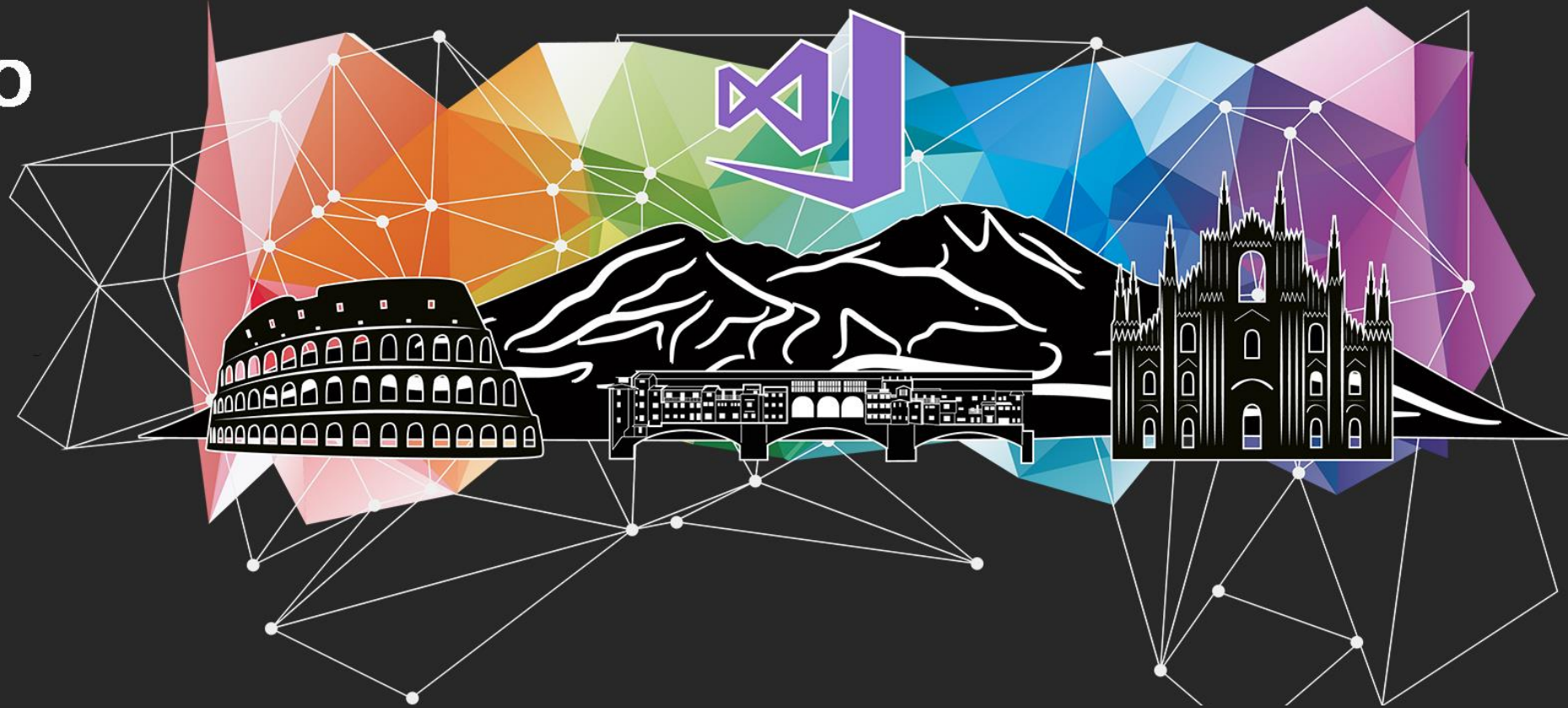
 <https://azuredevopslabs.com/>



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# DEMO

From zero to DevOps in 30 minutes  
(more or less 😊)



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# Thanks for your attention!!!!



## Massimo Bonanni



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*@massimobonanni*

*<https://www.linkedin.com/in/massimobonanni/>*



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# AZURE DEVOPS

# #AzureDevOps



<https://azure.com/devops>

<https://docs.microsoft.com/en-us/azure/devops/release-notes/>



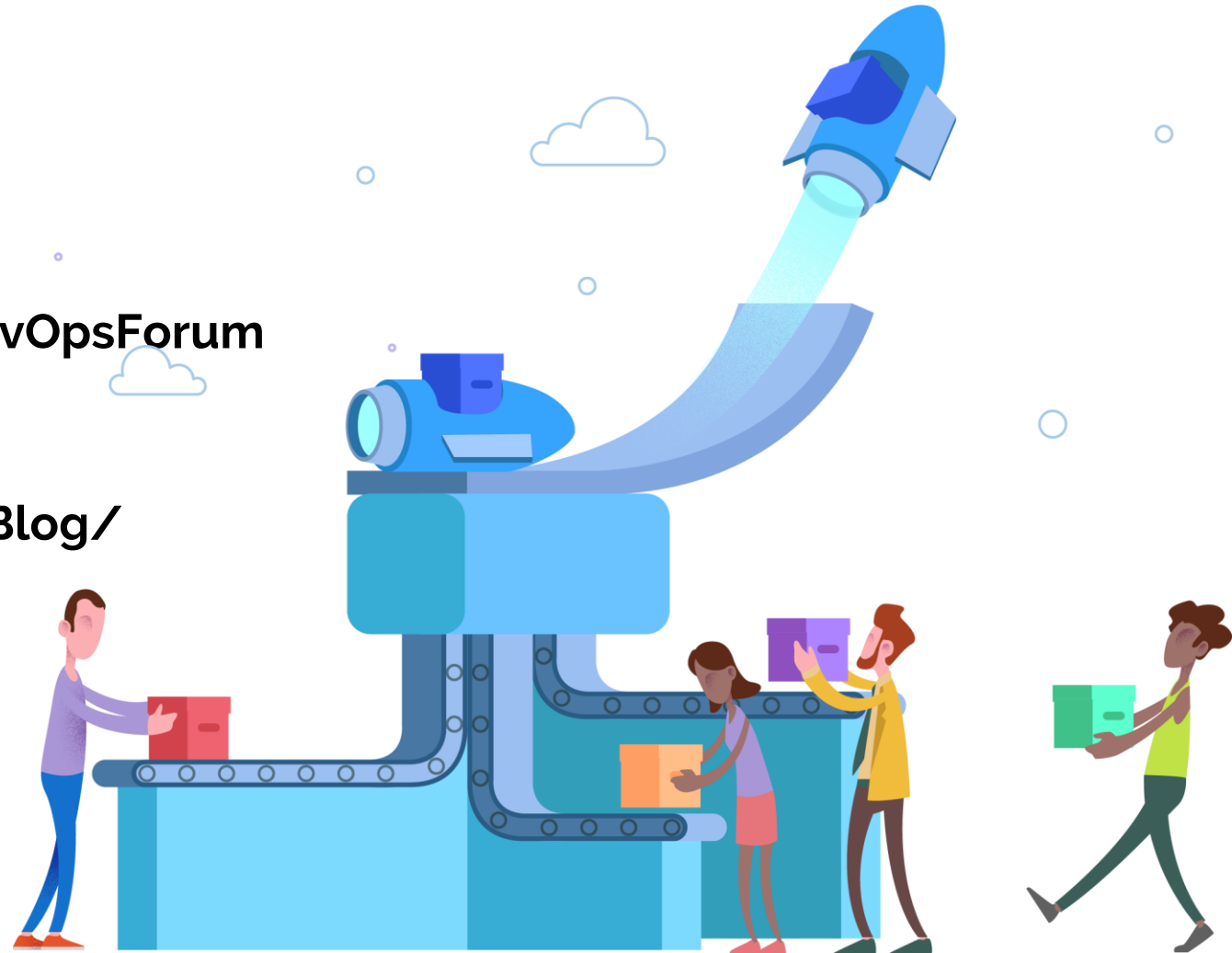
@AzureDevOps



<https://aka.ms/AzureDevOpsForum>



<https://aka.ms/DevOpsBlog/>





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## Community

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