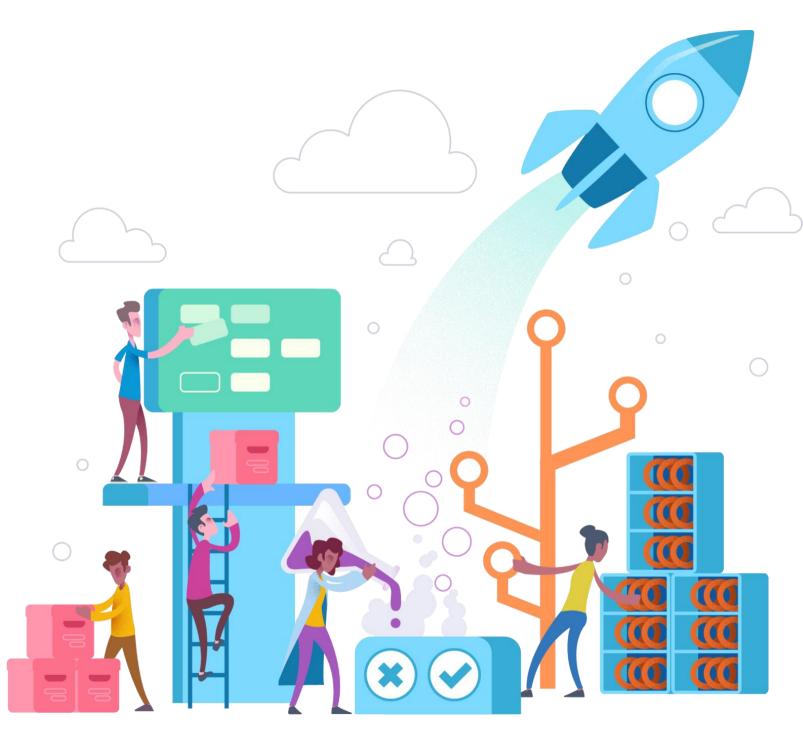


Azure DevOps



Azure DevOps

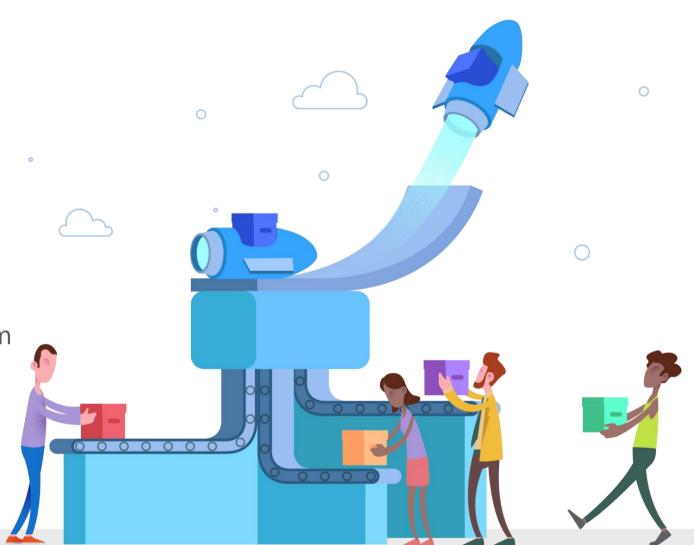
#AzureDevOps



@AzureDevOps

https://aka.ms/AzureDevOpsForum

https://aka.ms/DevOpsBlog/



Introducing Azure DevOps



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.



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 Repos

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



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 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

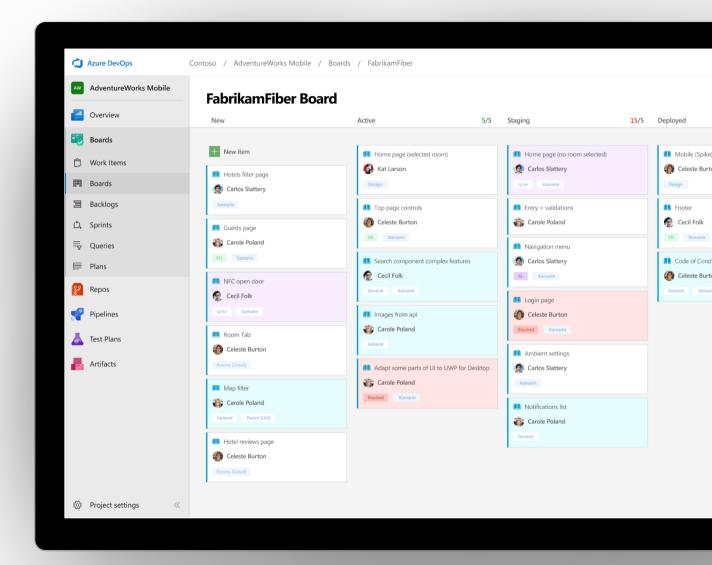
Use built-in scrum boards and planning tools to help your teams run sprints, stand-ups, and planning meetings.



Project insights

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





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

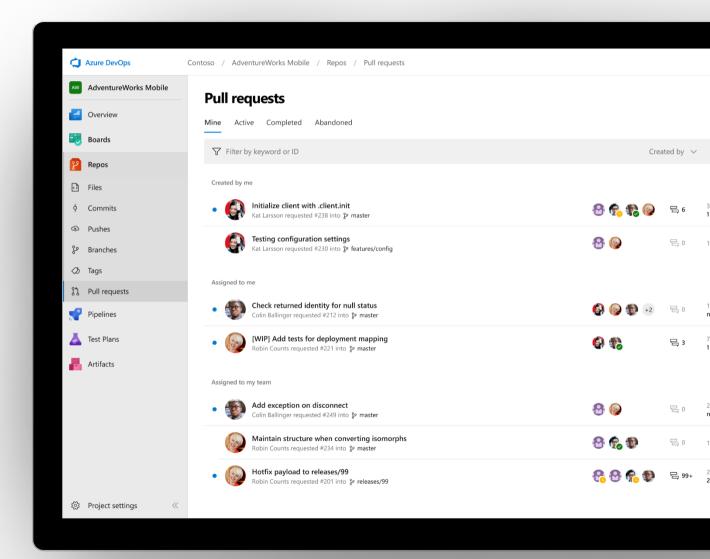
Add validations and extensions from the marketplace or build your own using web hooks and REST APIs.



Semantic code search

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





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

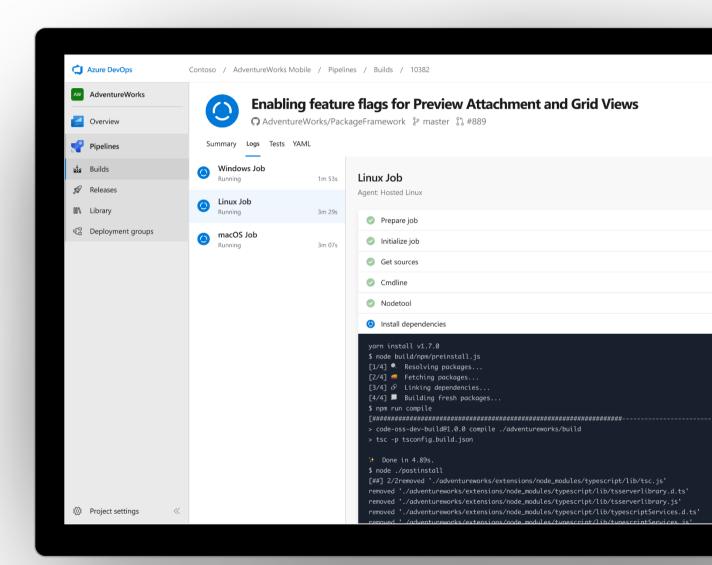
Easily build and push images to container registries like Docker Hub and Azure Container Registry. Deploy containers to individual hosts or Kubernetes.



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





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

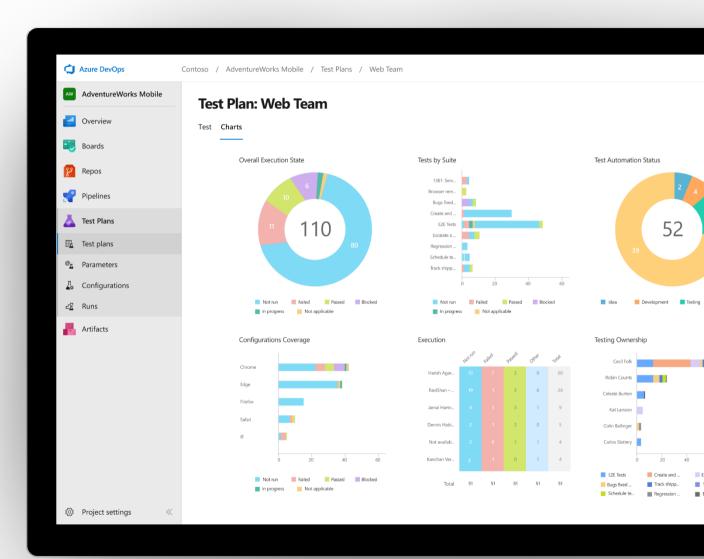
Test your application where it lives. Complete scripted tests across desktop or web scenarios. Test onpremises application from the cloud and vice-versa.



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.





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

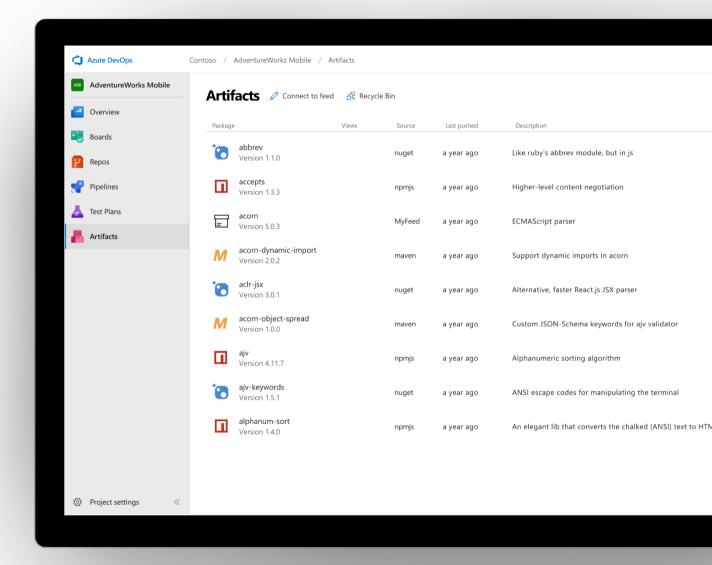
Share packages, and use built-in CI/CD, versioning, and testing.



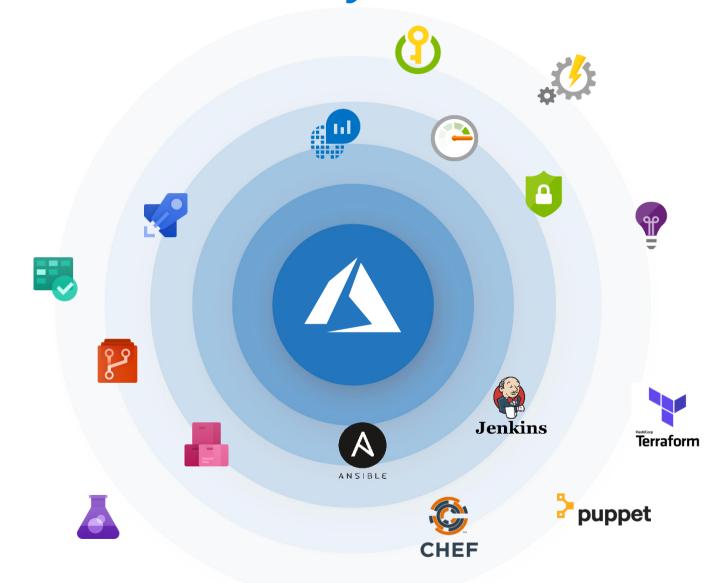
Share code efficiently

Easily share code across small teams and large enterprises.





Broadening the Azure Ecosystem



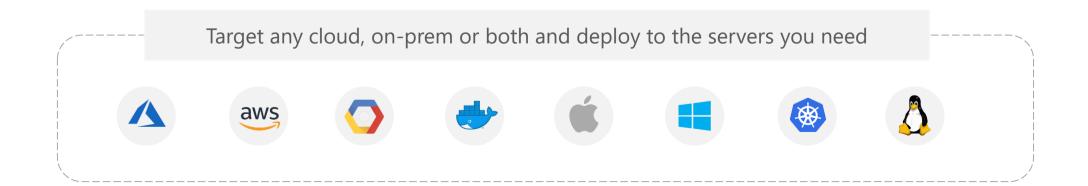
Azure DevOps: Choose the tools and clouds you love

Azure
DevOps lets
developers
choose the
tools that
are right for
them





Mix and match to create workflows with tools from Microsoft, open source or your favorite 3rd party tools



Azure DevOps supports small teams to largest enterprises



Instead of telling people to wait for 6 months for a new feature, we can give it to them in a few weeks...Our 2800 worldwide developers can use the same backlog, user stories and tests whether they're on Windows or Linux... building for iOS or Android.

Columbia

Microsoft made it really easy to break outside the silos... and tie the DevOps process into the fulfilment of business process. Without the tools that we have today, we would not be successful.

accenture

"Speed is gained in moving to the PaaS offering of Azure DevOps. PaaS provides regularly released features and a future-proof capability, eliminating the need for Accenture to maintain infrastructure and go through upgrade cycles."



Branches sync 500 percent faster. Builds are 400 percent faster, with the typically six-hour process reduced to 90 minutes. We (now have) a highly streamlined process that operates with a few button clicks—and one-button deployment.

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

Demo

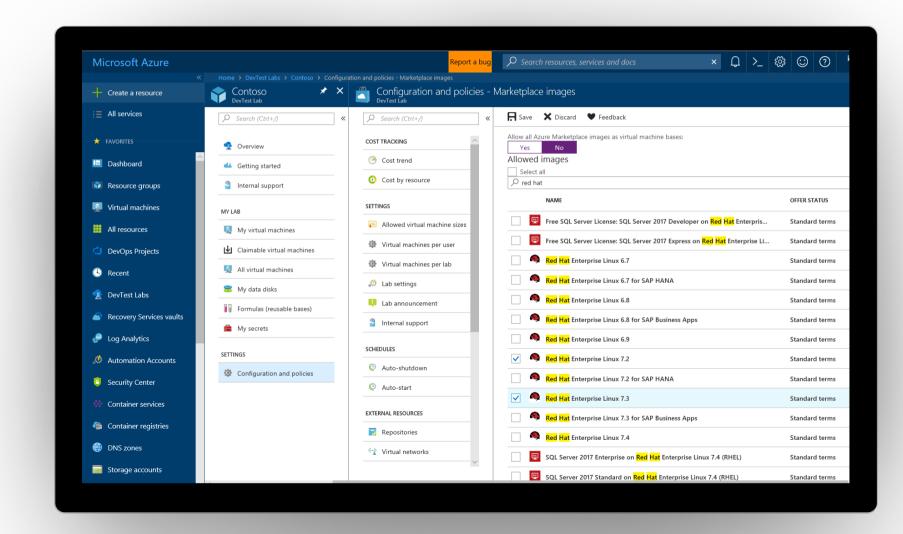
Azure DevOps

© Microsoft Corporation

Self-Service Dev/Test Environments

Azure Lab Services

- Simplify cloud environment management for developers and testers.
- Enforce policies and control costs with full visibility
- Use templates, custom images and formulas to reproduce environments.
- Orchestrate with Azure
 Pipelines or integrate using
 REST API



Infrastructure and Configuration as Code

Azure Resource Manager, Automation & 3rd Party Integrations

- → Infrastructure as Code, built-in
- → Azure Config & Automation
- → Support for 3rd party and OSS tooling such as Terraform,
 Ansible, Chef, Puppet &
 SaltStack

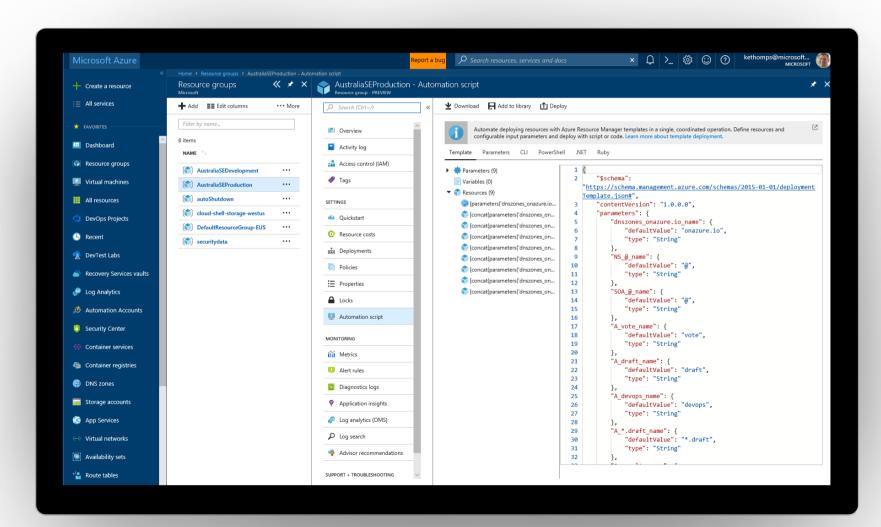










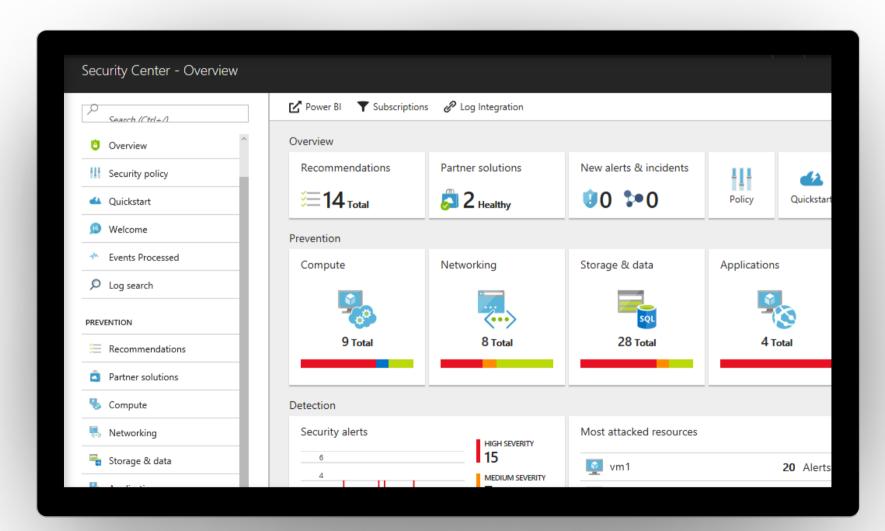


Continuous Security

Azure Security Center

- Gain full visibility and control of your cloud security state
- → Leverage ML to Proactively identify and mitigate risks to reduce exposure to attacks
- Quickly detect and respond to threats with advanced analytics

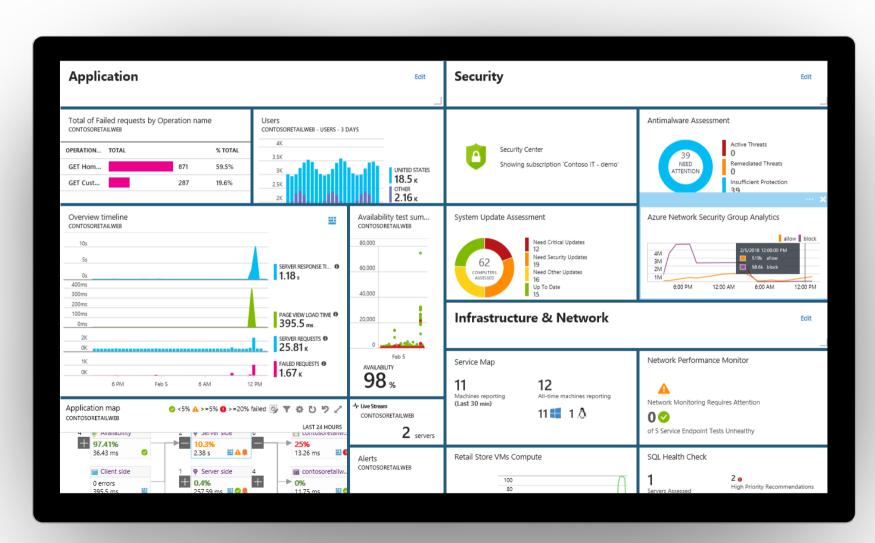




Smarter Insights, Faster

Azure Monitor, Application Insights & Log Analytics

- → Pre-defined solutions with smart thresholds
- → Visualize data in intuitive and customizable dashboards
- Separate the signal from the noise and accelerate root-cause analysis
- → Integrate your existing processes & tools like Service Now

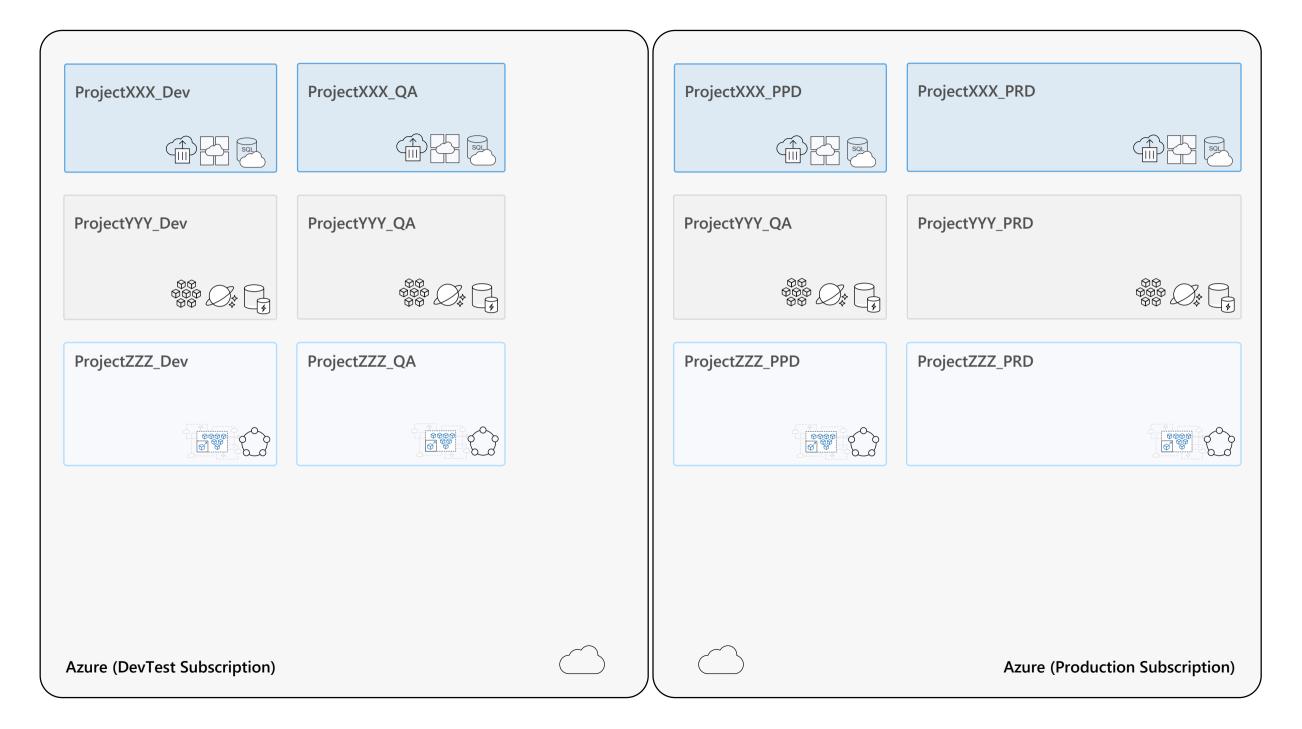


Demo

Azure DevOps A DevOps Project in Azure

© Microsoft Corporation

ProjectXXX_PPD ProjectXXX_Dev ProjectXXX_QA ProjectXXX_PRD Azure (DevTest Subscription) Azure (Production Subscription)



Visual Studio Team Services

 ${\bf Project XXX_Dev}$



ProjectXXX_QA



ProjectYYY_Dev



ProjectYYY_QA



ProjectZZZ_Dev



ProjectZZZ_QA



Azure (DevTest Subscription)



ProjectXXX_PPD



ProjectXXX_PRD



ProjectYYY_QA



ProjectYYY_PRD



ProjectZZZ_PPD



ProjectZZZ_PRD







