Azure DevOps

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The Challenge
50% of Fortune 500 in 2000 now replaced by organizations that use technology to deliver customer value faster, better, and cheaper.

The Fortune 500 of today face the same challenge tomorrow.
Product innovations need to reach customers quickly, and stay available.

Accelerate delivery

Optimize reliability
Software delivery paradox

Speed vs. control impedes innovation
Developers are at the heart of your company’s innovation.
What is DevOps?


“DevOps is the union of people, process, and products to enable continuous delivery of value to your end users.”
Our Solution
Microsoft Azure is the cloud with DevOps tooling built in.
Deliver with Azure DevOps

- Azure Boards
- Azure Repos
- Azure Pipelines
- Azure Artifacts
- Azure Test Plans
DevOps at Microsoft

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

https://aka.ms/DevOpsAtMicrosoft

442k
Pull Requests per month

4.6m
Builds per month

2.4m
Private Git commits per month

3.5k
Open Source Repos

25k
Work items created/day

500k
Work items updated/day

12k
Employees contributing to open source

82,000
Deployments per day

Data: Internal Microsoft engineering system activity, March 2019
Deliver

Azure Boards

Azure Repos

Azure Pipelines

Azure Artifacts

Azure Test Plans

Connecting ideas to releases

Scrum ready to help your teams run sprints, stand-ups, and plan work

Integrated with GitHub commits and pull requests

Insights into project status and health
Deliver

Azure Boards

Azure Repos

Azure Pipelines

Azure Artifacts

Azure Test Plans

Private Git and TFVC repos for your teams

Code review via branch pull requests

Branch policies and build validation

Easy migration path to / from GitHub
Deliver

Azure Boards

Azure Repos

Azure Pipelines

Azure Artifacts

Azure Test Plans

Cloud-hosted pipelines for Linux, macOS and Windows

Any language, any platform, any cloud

Native support for containers and Kubernetes

Best-in-class for open source
Deliver

- Azure Boards
- Azure Repos
- Azure Pipelines
- Azure Artifacts
- Azure Test Plans

Deploy to on-premises, ANY cloud or a hybrid of cloud and on-prem

Staged environment releases

Pre and post deployment approvals with gates to automate approval based on conditions
Deliver

Azure Boards

Azure Repos

Azure Pipelines

Azure Artifacts

Azure Test Plans

Share code efficiently

Keep your Maven, npm, NuGet and Python packages and more in the same place

Aggregate from public registries and internal teams

Publish and track from any pipeline
Deliver

- Azure Boards
- Azure Repos
- Azure Pipelines
- Azure Artifacts
- Azure Test Plans

Run tests and log defects from your browser
Track and assess quality throughout your lifecycle
Capture rich data for reproducibility
Create tests directly from exploratory sessions
Demo:
Azure DevOps Project with Azure DevOps
GitHub brings the premier social coding workflows to your team, breaking down silos and enabling Inner Source through:

- Expertise sharing
- Cross-team collaboration
- Improved code reuse
- Increased velocity
The #1 developer community on the planet

Most contributions 1.1B in 2018
Most developers 33M
Most Repos 100M
Most secure 5M vulnerability alerts in 2018
Home to the most important and popular open source projects on the planet
Azure DevOps
Integrated with GitHub

Rich integration with Azure Pipelines and Azure Boards
Azure Pipelines

Free *unlimited* build minutes for public projects

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

[https://azure.com/pipelines](https://azure.com/pipelines)

Microsoft 🖤 Open Source
Demo:
Azure DevOps with GitHub
Reactive operations

DEVELOP

DELIVER

OPERATE

- Governance
- Security
- Monitoring
- Automation
- Resiliency
Moving to proactive operations with Azure

“Shifting left”

DEVELOP
- Resiliency
- Monitoring

DELIVER
- Security
- Governance

OPERATE
- Automation
Deploy continuously and compliantly
Enterprise-grade security, monitoring, and management services built-in

- **Governance**: Proactively apply policies and enable compliant releases
  - Azure Policy & Blueprints

- **Security**: Industry leading Security with Advanced Threat Protection
  - Azure Security Center

- **Resiliency**: High availability and protection for VMs, apps and data
  - Azure Backup & Site Recovery

- **Monitoring**: Deep operational insights with rich intelligence
  - Azure Monitor

- **Automate**: Powerful scripting, configuration and update management
  - Azure Automation
Use the tools you know and love

Azure and GitHub are fully integrated with your existing tools and workflow
The cloud with DevOps tools built in
Azure Ecosystem
Azure DevOps Projects

DevOps Pipelines in Minutes

» Create a full DevOps pipeline with 3 easy steps from the Azure Portal
» Start with a Git repo and any source language
» Web apps, Kubernetes, soon VMs and more.
» Customize, extend and scale when needed.

Select an Azure service to deploy the application

- Kubernetes Service
  - Fully managed Kubernetes container orchestration service for managing containers without container expertise

- Service Fabric Cluster
  - A distributed systems platform to deploy and manage scalable and reliable microservices and containers

- Windows Web App
  - Fully managed compute platform on Windows for web applications and websites.

- Linux Web App
  - Fully managed compute platform on Linux for web applications and websites.

- Web App for Containers
  - Fully managed compute platform on Linux for deploying and running containerized web applications.

- Virtual machine
  - Windows virtual machine to run your app.
Azure Lab Services

Self-Service Dev/Test Environments

- 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.
Application Insights

Get actionable insights through application performance management and instant analytics

- Visibility – Get the big picture
- Insights – Find & fix problems. Detect and diagnose exceptions and application performance issues
- Integration – Seamlessly integrate with your DevOps pipeline using Azure DevOps, GitHub, and our webhooks
- Monitor – Azure websites, including those hosted in containers, websites on-premises and with other cloud providers
- Get started from within Visual Studio, or monitor existing apps without redeploying
Azure DevOps

- Continued heavy investment in Azure DevOps
- Best in class CI/CD solution across the industry
- Best & most loved solution for managing development teams
- Tight integrations with GitHub
- Provide enterprise scalable package management

https://azure.com/devops
Thank You!

ευχαριστώ  Salamat Po  شكراً  متشكرم  Grazie
благодаря  ありがとうございます  Kiitos  Teşekkürler  谢谢
ขอบคุณครับ  Obrigado  شكراً  Terima Kasih  Dziękuję
Hvala  Köszönöm  Tak  Dank u Wel  ДЯКУЮ  Tack
Mulțumesc  спасибо  Danke  Cám ơn  Gracias
多謝晒  Đakujem  ขอขอบคุณ  Dēkuji  감사합니다
Global Reach

Azure DevOps has more global regions than any other cloud provider
Migrating from On-Prem to the Cloud

Move from Team Foundation Server to Azure DevOps and bring your data along

Benefits of Cloud Hosted Azure DevOps Services

• Global availability

• Hosted and maintained by Microsoft with 99.9% uptime guarantee and 24x7 support

• Immediate access to latest features

• Simplified deployment to Azure

Azure DevOps Import Service

• Fully supported high fidelity migration path

• Trusted by many large enterprises

• Now faster and easier to use

https://aka.ms/tfsimport
# 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

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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.

[https://azure.com/pricing/details/devops/](https://azure.com/pricing/details/devops/)