



January 30, 2019 — 8:30 AM - 5:00 PM | Detroit, Michigan

Azure Dev Day

Learn, architect, and develop solutions on Azure



#AzureDevDays
for developers, by developers

Learn.
Connect.
Explore.



Azure DevOps Services

Randy Pagels
Azure Technical Specialist – App Dev



Learn.
Connect.
Explore.

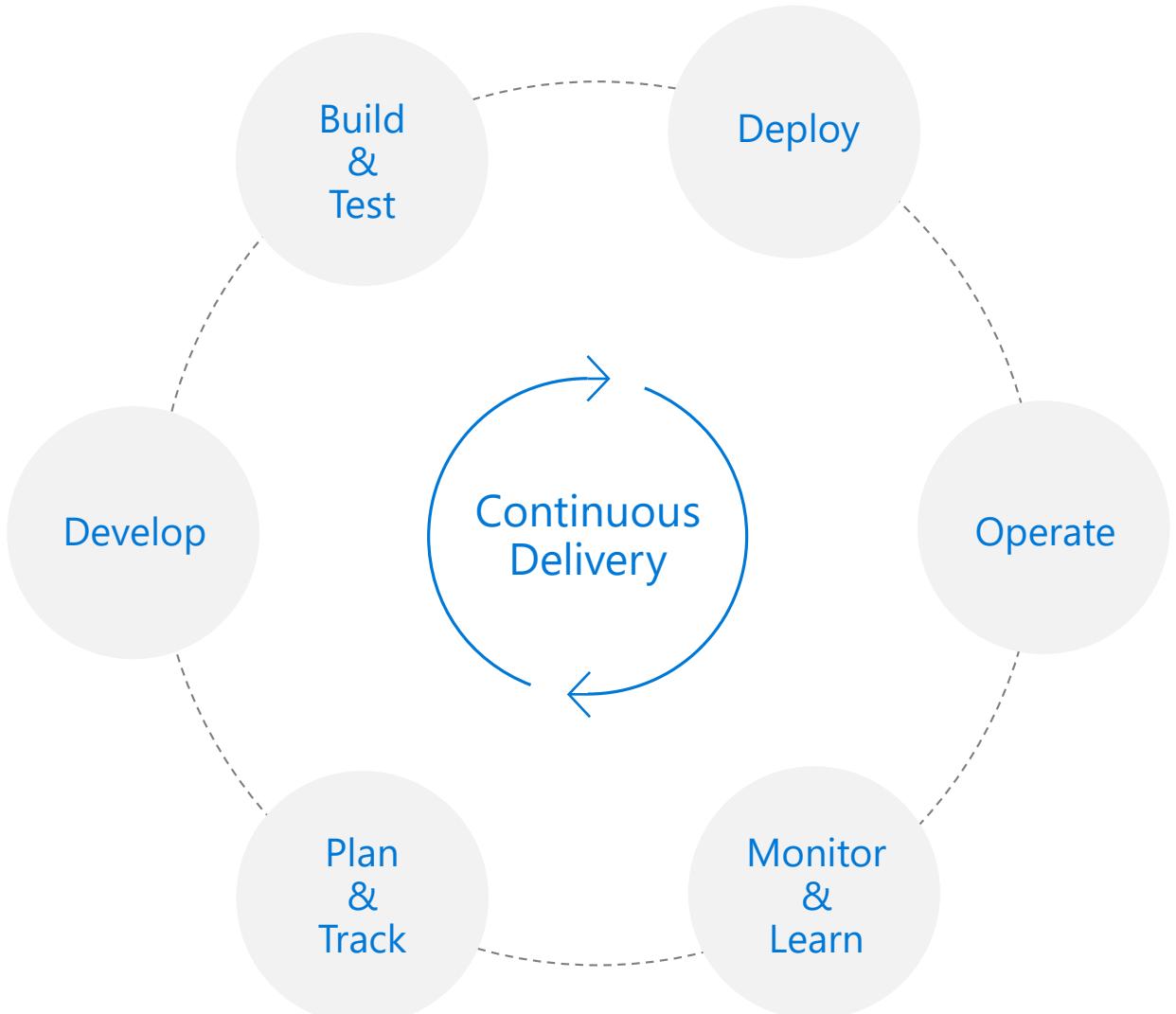
What is DevOps?

People. Process. Products.

“

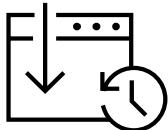
DevOps is the union of **people**, **process**, and **products** to enable continuous delivery of **value** to your end users.”

”



What technologies do I need to support DevOps?

DevOps brings together people, processes, and products, automating software delivery to provide continuous value to your users. Using Azure DevOps, you can deliver software faster and more reliably - no matter how big your IT department or what tools you're using.



Continuous integration (CI)

- Improve software development quality and speed.
- When you use Azure Pipelines or Jenkins to build apps in the cloud and deploy to Azure, each time you commit code, it's automatically built and tested and bugs are detected faster.

101010
010101
101010

Continuous Deployment (CD)

- By combining continuous integration and infrastructure as code (IaC), you'll achieve identical deployments and the confidence to deploy to production at any time.
- With continuous deployment, you can automate the entire process from code commit to production if your CI/CD tests are successful.



Continuous Learning & Monitoring

- With Azure Application Insights you can identify how your applications are performing and test if the recent deployment made things better or worse.
- Using CI/CD practices, paired with monitoring tools, you'll be able to safely deliver features to your customers as soon as they're ready.

Business Needs



Drive
innovation



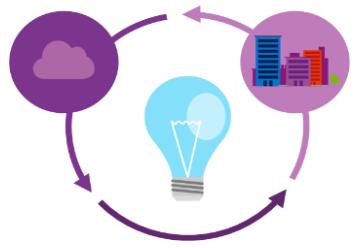
Reach and
engage



Accelerate
time-to-market while
reducing costs



What needs to change to address those needs?



Shorten cycle times
and deliver value
faster



Improve **quality**
and availability

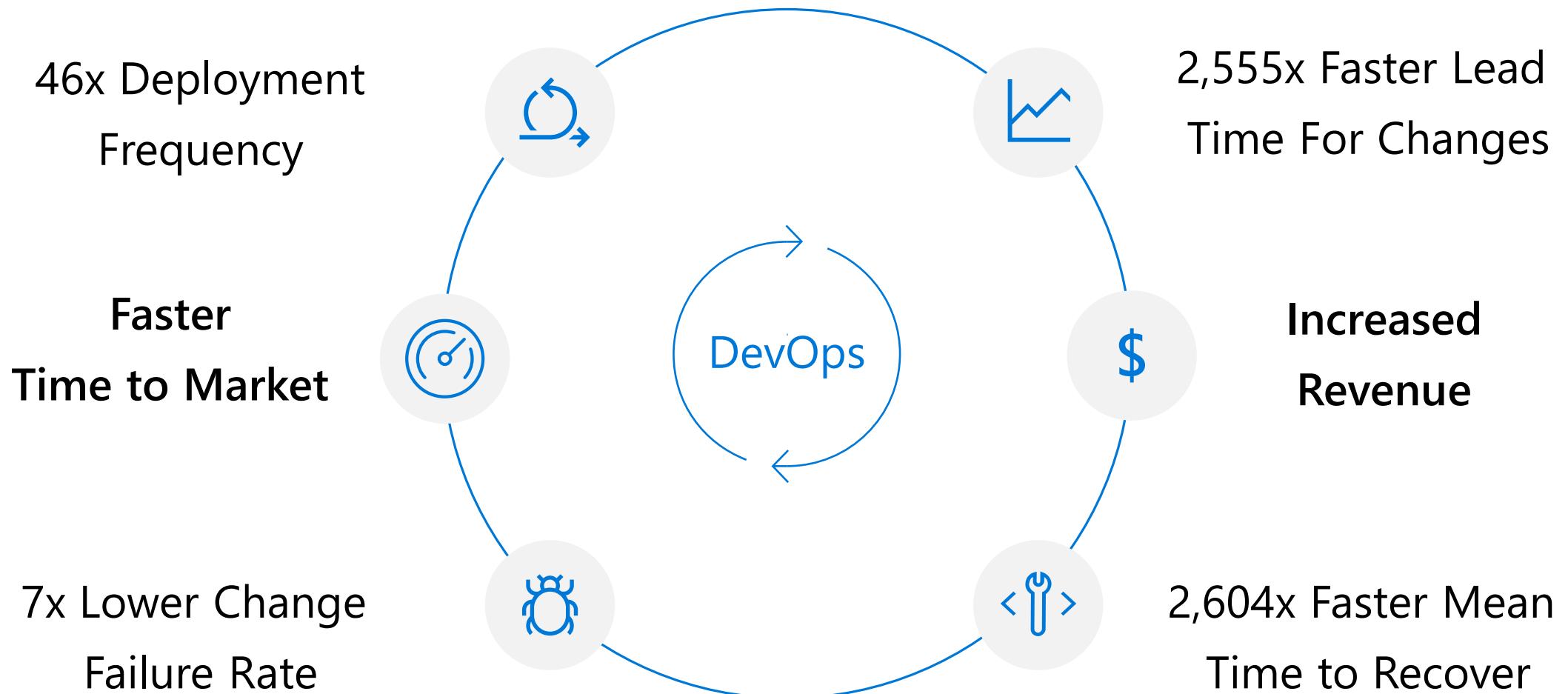


Optimize resources
and eliminate waste



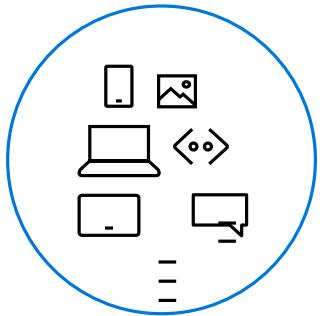
Deliver **innovation**
and great customer
experience through
experimentation

High Performance DevOps Companies Achieve...



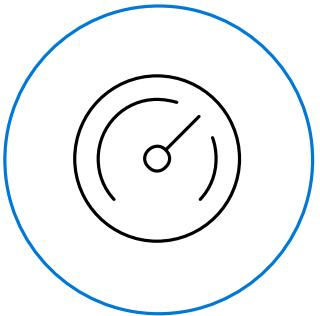
How Microsoft can help

Microsoft Azure is a powerful and flexible foundation for past, present, and future apps – easily build, manage, and deploy any application and any stack on a massive, global network using your favorite tools and frameworks.



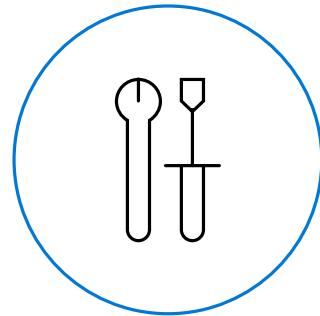
Flexible

Choice of IaaS, PaaS, public cloud or hybrid.
Mirror or modernize app infrastructure with VMs, containers, microservices or serverless.
Supports all stages of the app modernization journey – from lift-and-shift to Cloud-Native.



Powerful

Instantly improve the performance, scalability and resiliency of your apps by moving them to the cloud.
Increase business agility with Cloud-Native capabilities and built-in DevOps for continuous innovation.



Open

Bring your stack, we bring a cloud that runs any app, on any platform, and any language.
Build applications using the language and tools of your choice - Azure supports what you already use and love so you can get up and running fast – just bring code.

Azure DevOps Services

Plan smarter, collaborate better, and ship faster with modern dev services



Azure Boards

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



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 Test Plans

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



Azure Artifacts

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



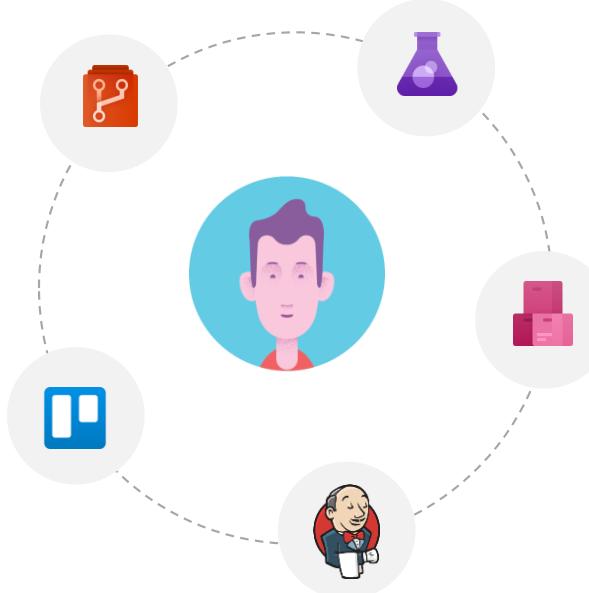
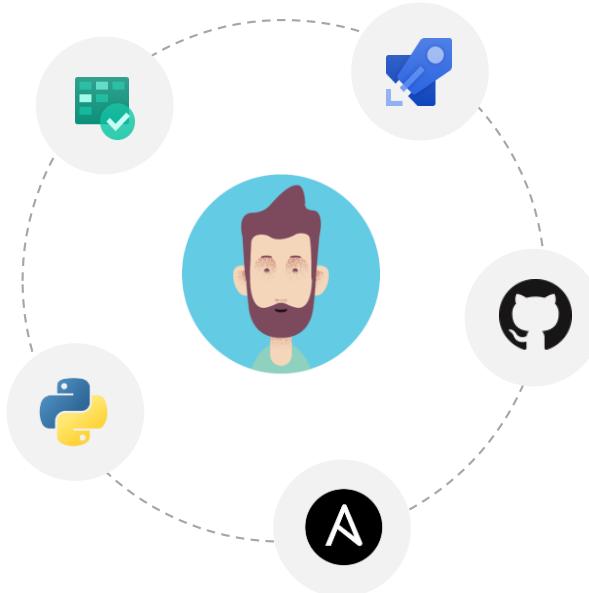
Azure Lab Services

Self-service Dev/Test Environments

Azure DevOps: Choose what you love

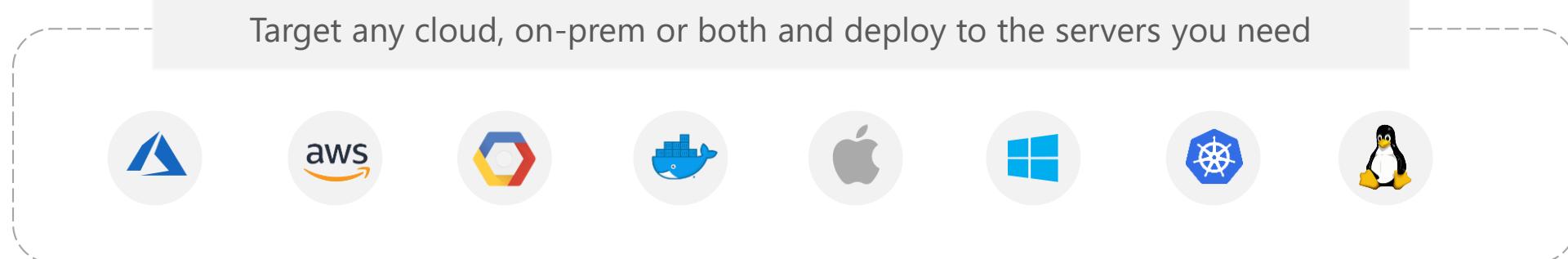
Any Language, Any Platform

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



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

Target any cloud, on-prem or both and deploy to the servers you need



Get 3rd Party Extensions in the Azure DevOps Marketplace

Visual Studio | Marketplace

Dave Burnison (dabu@microsoft.com) Sign out 

Visual Studio Visual Studio Code **Azure DevOps** Subscriptions

Build your own Publish extensions

Jenkins AWS Chef Docker Terraform RedGate 

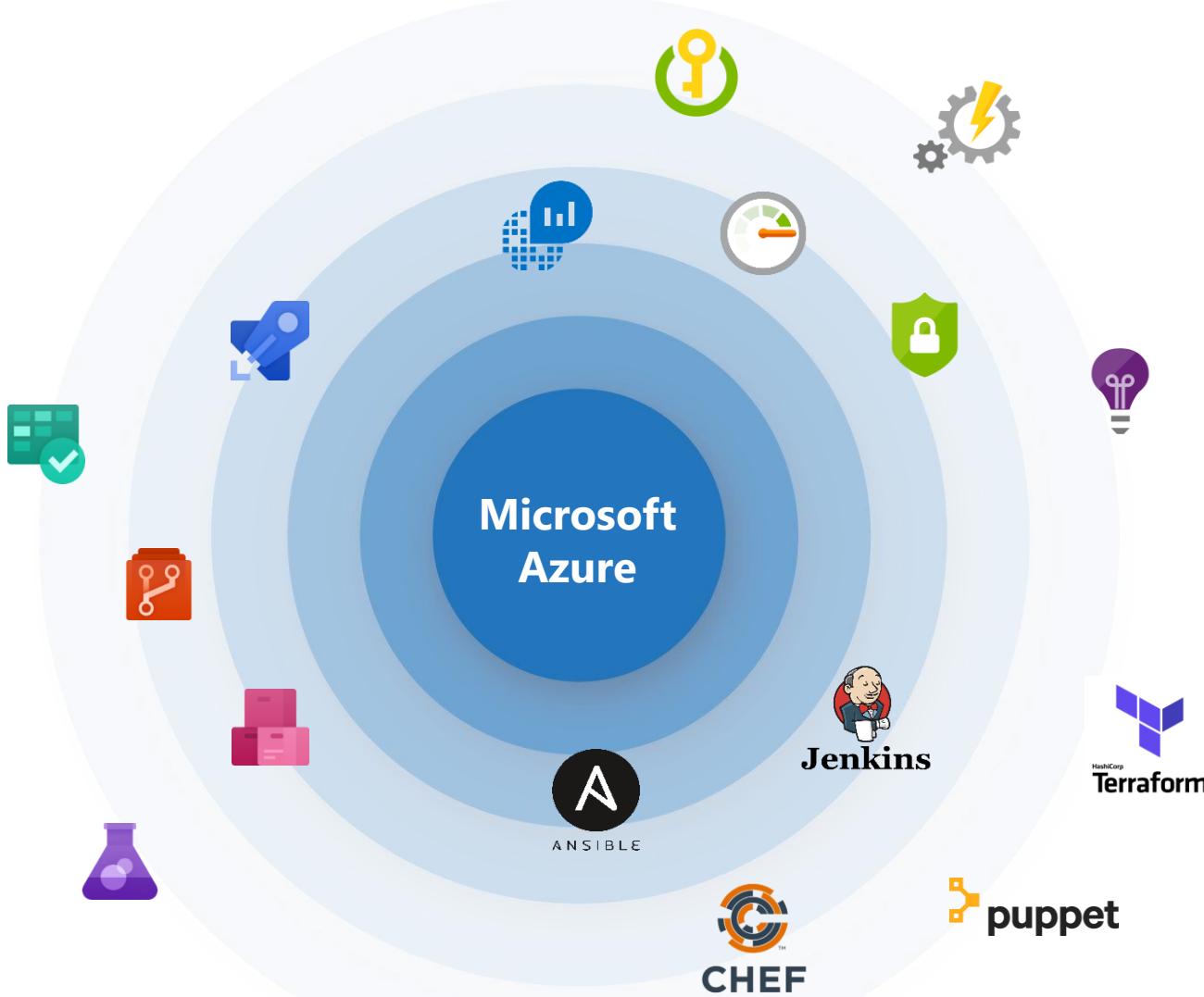
24 Results Showing: All categories Hosted On: Any Price: Any Visibility: All Sort By: Relevance

 AWS Tools for Microsoft Amazon Web Services 6.7K Tasks for Amazon S3, AWS Elastic Beanstalk, AWS CodeDeploy, AWS Lambda...  FREE	 Docker Integration Microsoft 10.6K Build, push, run or deploy Docker images and multi-container Docker applications.  FREE	 Jenkins Integration Microsoft 4.7K Jenkins is an award-winning, cross-platform, continuous integration and continuous...  FREE	 Redgate ReadyRoll Redgate Software 2.8K Develop and deploy databases in Visual Studio with migration scripts  FREE	 AWS S3 Upload Marcus Felling 653 Build task to upload a file to S3 bucket in AWS.  FREE	 Terraform Peter Groeneweger 975 Build extension that enables you to run Terraforms on the build agent.  FREE
 Chef Integration Chef 594 Tasks for performing common Chef operations against the Chef Automate platform.  FREE	 Docker build task Lambda3 1.3K Adds a build task that enables Docker actions.  FREE	 Terraform Tyler Evert 154 Build extension for running Terraform commands.  FREE	 Terraform Jamie Phillips 22 Use Terraform with VSTS.  FREE	 VSTS Terraform James Sheridan 1 Build extension that enables you to run Terraform via a build agent.  FREE	 CloudBees Jenkins Platform CloudBees 119 Configure CloudBees Jenkins Platform to integrate with your Visual Studio Team...  FREE



<https://marketplace.visualstudio.com/azuredevops>

Broadening the Azure Ecosystem



Demo

Azure DevOps Services

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.

The screenshot shows the Azure DevOps interface with the 'FabrikamFiber' project selected. The left sidebar includes links for 'Overview', 'Boards', 'Work items', 'Backlogs', 'Sprints', 'Queries', 'Plans', 'Repos', 'Pipelines', 'Test Plans', and 'Artifacts'. The main area is titled 'FabrikamFiber Board' and displays a Kanban board with columns for 'New', 'Active', 'Staging', and 'Deployed'. The 'Active' column shows 5/5 items. The board lists various work items such as 'Home page (selected room)', 'Top page controls', 'Entry + validations', 'Navigation menu', 'Search component complex features', 'Login page', 'Images from api', 'Adapt some parts of UI to UWP for Desktop', and 'Notifications list'. Each item has a small icon, a title, a description, and a list of assignees (e.g., Kat Larson, Carlos Slattery, Celeste Burton, Carole Poland, Cecil Folk). The interface uses a light theme with blue and grey accents.



<https://azure.com/devops>

Azure Pipelines

Cloud-hosted pipelines for Linux, Windows and macOS.



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.

The screenshot shows the Azure DevOps Pipelines interface for the 'AdventureWorks Mobile' project. It displays three parallel jobs: a Windows Job (Running, 1m 53s), a Linux Job (Running, 3m 29s), and a macOS Job (Running, 3m 07s). The pipeline is titled 'Enabling feature flags for Preview Attachment and Grid Views'. The logs section shows the command history:

```
yarn install v1.7.0
$ node build/npm/preinstall.js
[1/4] Resolving packages...
[2/4] Fetching packages...
[3/4] Linking dependencies...
[4/4] Building fresh packages...
$ npm run compile
#####
> code-oss-dev-build@1.0.0 compile ./adventureworks/build
> tsc -p tsconfig.build.json

✖ Done in 4.89s.
$ node ./postinstall
[#=] 2/2 removed './adventureworks/extensions/node_modules/typescript/lib/tsc.js'
removed './adventureworks/extensions/node_modules/typescript/lib/tsserverlibrary.d.ts'
removed './adventureworks/extensions/node_modules/typescript/lib/tsserverlibrary.js'
removed './adventureworks/extensions/node_modules/typescript/lib/typescriptServices.d.ts'
removed './adventureworks/extensions/node_modules/typescript/lib/typescriptServices.js'
```



<https://azure.com/pipelines>

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

The screenshot shows the Azure DevOps Pipelines interface for the AdventureWorks Mobile project. A pipeline named "Enabling feature flags for Preview Attachment and Grid Views" is displayed, triggered by a pull request (#889) from the master branch. The pipeline consists of three parallel jobs: a Windows Job (Running, 1m 53s), a Linux Job (Running, 3m 29s), and a macOS Job (Running, 3m 07s). The Linux Job details are shown on the right, listing the following steps:

- Prepare job
- Initialize job
- Get sources
- Cmdline
- Nodetool
- Install dependencies

The logs for the Linux job show the following command output:

```
yarn install v1.7.0
$ node build/npm/preinstall.js
[1/4] Resolving packages...
[2/4] Fetching packages...
[3/4] Linking dependencies...
[4/4] Building fresh packages...
$ npm run compile
#####
> code-oss-dev-build@1.0.0 compile ./adventureworks/build
> tsc -p tsconfig.build.json

✖ Done in 4.89s.
$ node ./postinstall
[#1] 2/2 removed './adventureworks/extensions/node_modules/typescript/lib/tsc.js'
removed './adventureworks/extensions/node_modules/typescript/lib/tsserverlibrary.d.ts'
removed './adventureworks/extensions/node_modules/typescript/lib/tsserverlibrary.js'
removed './adventureworks/extensions/node_modules/typescript/lib/typescriptServices.d.ts'
removed './adventureworks/extensions/node_modules/typescript/lib/typescriptServices.js'
```



<https://azure.com/pipelines>

Deploy Repeatedly & Reliably

Azure Resource Manager & DevOps Tool Integrations

Infrastructure as Code, built-in with Azure Resource Manager

Use Azure Automation & Config to automate repetitive tasks

Support for DevOps tool integrations and OSS tooling such as Terraform, Ansible & Chef



The screenshot shows the Microsoft Azure portal interface. On the left, the classic navigation menu is visible. In the center, the 'Resource groups' blade is open, displaying a list of resource groups: AustraliaSEDevelopment, AustraliaSEProduction (which is selected), autoShutdown, cloud-shell-storage-westus, DefaultResourceGroup-EUS, and securitydata. To the right of the list, there are various management links like Overview, Activity log, Access control (IAM), Tags, and Settings. A large panel on the right displays the 'AustraliaSEProduction - Automation script' preview. It includes tabs for Template, Parameters, CLI, PowerShell, .NET, and Ruby. The 'Template' tab is active, showing a JSON template file:

```
1 {
2   "$schema": "https://schema.management.azure.com/providers/Microsoft.Resources/2018-05-01/Blueprints/parameters.schema.json",
3   "contentVersion": "1.0.0.0",
4   "parameters": {
5     "dnszones_onazure.io": {
6       "defaultValue": "www.onazure.io",
7       "type": "String"
8     },
9     "NS_@_name": {
10       "defaultValue": "ns1.onazure.io",
11       "type": "String"
12     },
13     "SOA_@_name": {
14       "defaultValue": "soa.onazure.io",
15       "type": "String"
16     },
17     "A_vote_name": {
18       "defaultValue": "vote.onazure.io",
19       "type": "String"
20     },
21     "A_draft_name": {
22       "defaultValue": "draft.onazure.io",
23       "type": "String"
24     },
25     "A_devops_name": {
26       "defaultValue": "devops.onazure.io",
27       "type": "String"
28     },
29     "A_*_.draft_name": {
30       "defaultValue": "*.draft.onazure.io",
31       "type": "String"
32     }
33 }
```

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.

The screenshot shows the Azure DevOps interface for the Contoso / AdventureWorks Mobile project. The left sidebar includes links for Overview, Boards, Repos, Files, Commits, Pushes, Branches, Tags, and Pull requests (which is currently selected). The main content area is titled 'Pull requests' and shows a list of pull requests categorized by assignee: 'Mine', 'Active', 'Completed', and 'Abandoned'. The 'Mine' section contains two items: 'Initialize client with .client.init' and 'Testing configuration settings'. The 'Active' section contains three items: 'Check returned identity for null status', '[WIP] Add tests for deployment mapping', and 'Add exception on disconnect'. The 'Completed' section contains one item: 'Maintain structure when converting isomorphs'. The 'Abandoned' section contains one item: 'Hotfix payload to releases/99'. Each item has a small profile picture of the creator, a brief description, and a link to the pull request details. The bottom right corner of the screenshot shows a notification badge with the number '99+'.



<https://azure.com/devops>

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.



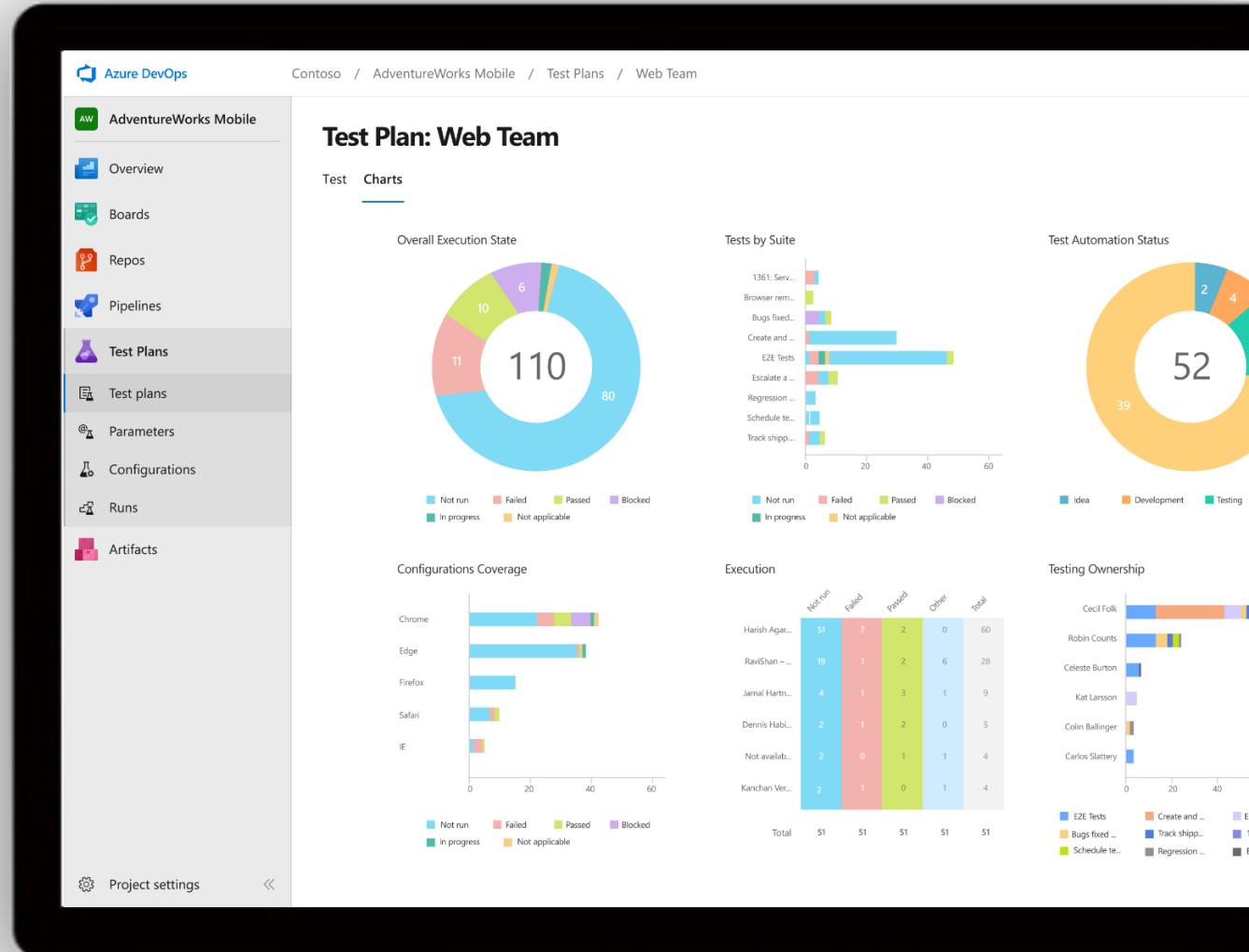
Test across web and desktop

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>

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.

The screenshot shows the Azure DevOps interface for managing artifacts. On the left, there's a sidebar with icons for Overview, Boards, Repos, Pipelines, Test Plans, and Artifacts (which is selected). The main area is titled "Artifacts" and shows a list of packages. Each package entry includes the name, version, source (NuGet, npmjs, Maven), last pushed date, and a brief description. The packages listed are abbrev (Version 1.1.0), accepts (Version 1.3.3), acorn (Version 5.0.3), acorn-dynamic-import (Version 2.0.2), aclr-jsx (Version 3.0.1), acorn-object-spread (Version 1.0.0), ajv (Version 4.11.7), ajv-keywords (Version 1.5.1), and alphanum-sort (Version 1.4.0).

Package	Views	Source	Last pushed	Description
abbrev Version 1.1.0		nuget	a year ago	Like ruby's abbrev module, but in js
accepts Version 1.3.3		npmjs	a year ago	Higher-level content negotiation
acorn Version 5.0.3		MyFeed	a year ago	ECMAScript parser
acorn-dynamic-import Version 2.0.2		maven	a year ago	Support dynamic imports in acorn
aclr-jsx Version 3.0.1		nuget	a year ago	Alternative, faster React.js JSX parser
acorn-object-spread Version 1.0.0		maven	a year ago	Custom JSON-Schema keywords for ajv validator
ajv Version 4.11.7		npmjs	a year ago	Alphanumeric sorting algorithm
ajv-keywords Version 1.5.1		nuget	a year ago	ANSI escape codes for manipulating the terminal
alphanum-sort Version 1.4.0		npmjs	a year ago	An elegant lib that converts the chalked (ANSI) text to HTML

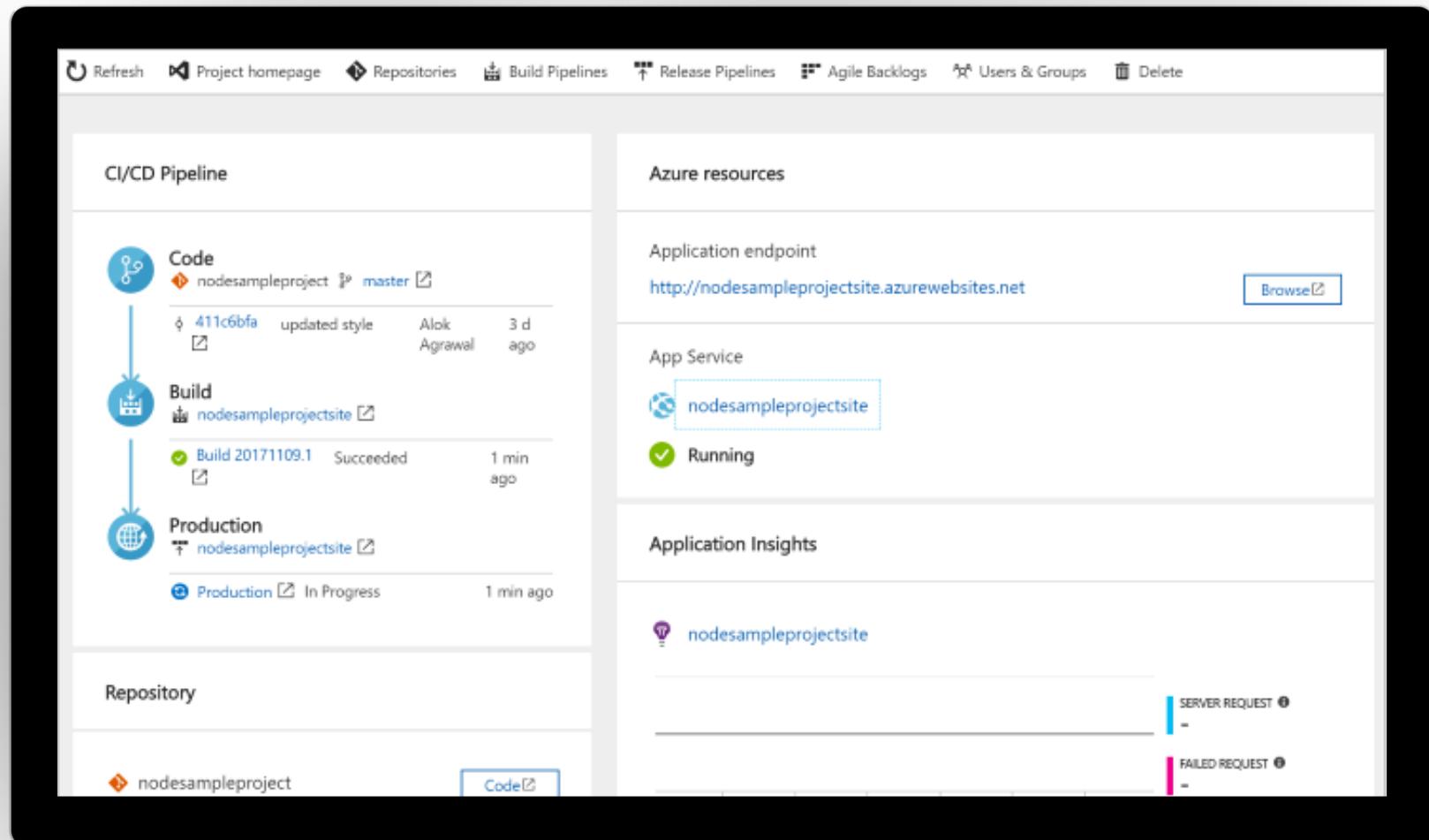


<https://azure.com/devops>

DevOps Pipelines in Minutes

Azure DevOps Projects

- 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.



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

Azure DevOps Services Pricing

Open Source Projects	Small Teams	Teams of any size
<p>Free</p> <p>Unlimited users and build time</p> <ul style="list-style-type: none">• 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	<p>Free</p> <p>Start free with up to 5 users</p> <ul style="list-style-type: none">• 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	<p>Starts at \$6</p> <p>per user, per month for Boards & Repos*</p> <p>Easy pricing that grows with your team</p> <ul style="list-style-type: none">• 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.microsoft.com/en-us/pricing/details/devops/azure-devops-services/>

* 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.

Compare Features Between Plans

Compare Azure DevOps features that are available to your users

- See what you can do for *FREE* as a Stakeholder
- Determine if you need to purchase an Azure DevOps User license
- See what you can do for *FREE* for Open Source projects (aka Public Projects)

The screenshot shows the Microsoft Azure DevOps 'Compare features between plans' page. The top navigation bar includes links for Overview, Solutions, Products (selected), Documentation, Pricing, Training, Marketplace, Partners, Support, Blog, and More. A 'Free account' button is also visible. The main content area has a breadcrumb trail: Home / Products / DevOps / Compare features. The title 'Compare features between plans' is displayed, followed by the subtext 'Compare Azure DevOps features that are available to your users'. A blue 'Get Azure DevOps free' button is present. Below this, there's a table comparing features across three categories: PRODUCT / FEATURES, FREE USERS, AZURE DEVOPS USERS, and OPEN SOURCE. The table lists several features, each with a brief description and a set of three checkboxes corresponding to the user categories.

PRODUCT / FEATURES	FREE USERS	AZURE DEVOPS USERS	OPEN SOURCE
Azure Boards	■	■	■
Create and edit work items, including bugs, requirements, and tasks	■	■	■
Search and query work items	■	■	■
View backlogs and boards	■	■	■
Set alerts and get notified about changed work items	■	■	■
... (truncated)			



<https://Azure.Microsoft.com/en-us/Services/DevOps/Compare-Features>

Azure DevOps Services Benefits for Visual Studio Subscribers

Visual Studio Professional

- Basic Features

Visual Studio Test Professional & MSDN Platforms

- Basic Features
- Test Manager

Visual Studio Enterprise

- Basic Features
- Test Manager
- Artifacts (Package Management)
- 1 Concurrent Job of Self-Hosted CI/CD



<https://docs.microsoft.com/en-us/visualstudio/subscriptions/vs-azure-devops>

Azure DevOps



Azure Boards



Azure Repos



Azure Pipelines



Azure Test Plans



Azure Artifacts



Plan smarter, collaborate better, and ship faster with a set of modern dev services



Any developer, any platform, any cloud. Full support for hybrid cloud, on-premises & containers.



Use all the Azure DevOps services or choose just what you need to complement your existing workflows



Best in class builds for open source. Free unlimited build minutes for public projects and up to 10 free concurrent pipelines across Windows, Linux and macOS



Get started for free for small teams, scales to support the largest enterprises



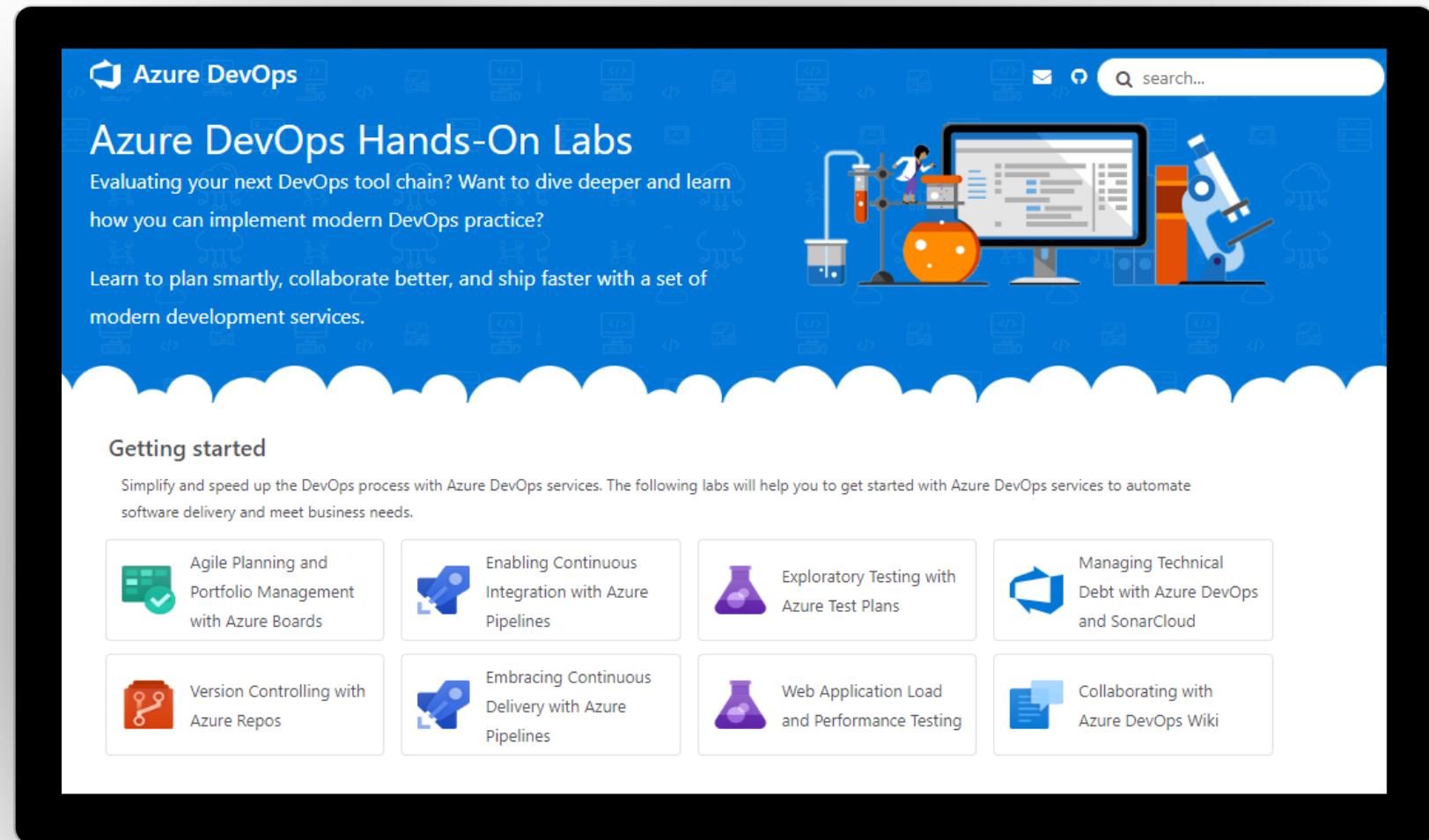
<https://azure.com/devops>

Resources

Azure DevOps Hands-On Labs

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

- Get Hands On Experience with Azure DevOps Services – Learn how you can plan better, code together and ship faster with Azure DevOps Services.
- Getting started - These labs will help you to get started with Azure DevOps services to automate software delivery and meet business needs.
- Deep Dive into Azure DevOps - Learn how to integrate with popular OSS and 3rd party tools and services. Use the tools and languages you know.



Documentation - Azure DevOps Feature Index

Use this end-to-end feature index to learn about all the features available in Azure DevOps

- If you're new to Azure DevOps Services or TFS, see the [Key concepts](#)
- For a description of the core services supported through the web portal, see [Essential services](#)
- If you only save one Favorite in your browser related to Azure DevOps, this is the link to save as a favorite!

The screenshot shows a Microsoft tablet displaying the 'Features index' page for Azure DevOps. The page has a dark header with the Microsoft logo and navigation links like 'Azure DevOps', 'Services', 'Pricing', 'News', 'Support', and 'Subscriber Access'. A 'Try for free' button is also present. The main content area has a light background. On the left, there's a sidebar titled 'Azure DevOps Services' with a 'Reference' section containing a 'Features index' link, which is highlighted with a blue bar. Below it are links for 'Default permissions & access', 'Permission lookup guide', and 'Resources'. At the bottom of the sidebar is a 'Download PDF' button. The main content area features a large heading 'What are the features in Azure DevOps?' with a subtext '12/13/2018 • 54 minutes to read • Contributors'. It includes a note about platform dependencies for Azure DevOps Services and TFS. To the right, there's a sidebar titled 'In this article' with various categories like 'Access and supported clients', 'Agile tools to plan and track work', etc. At the very bottom, there's a table with columns for 'Browsers', 'Manage users and groups', and 'Access levels'.

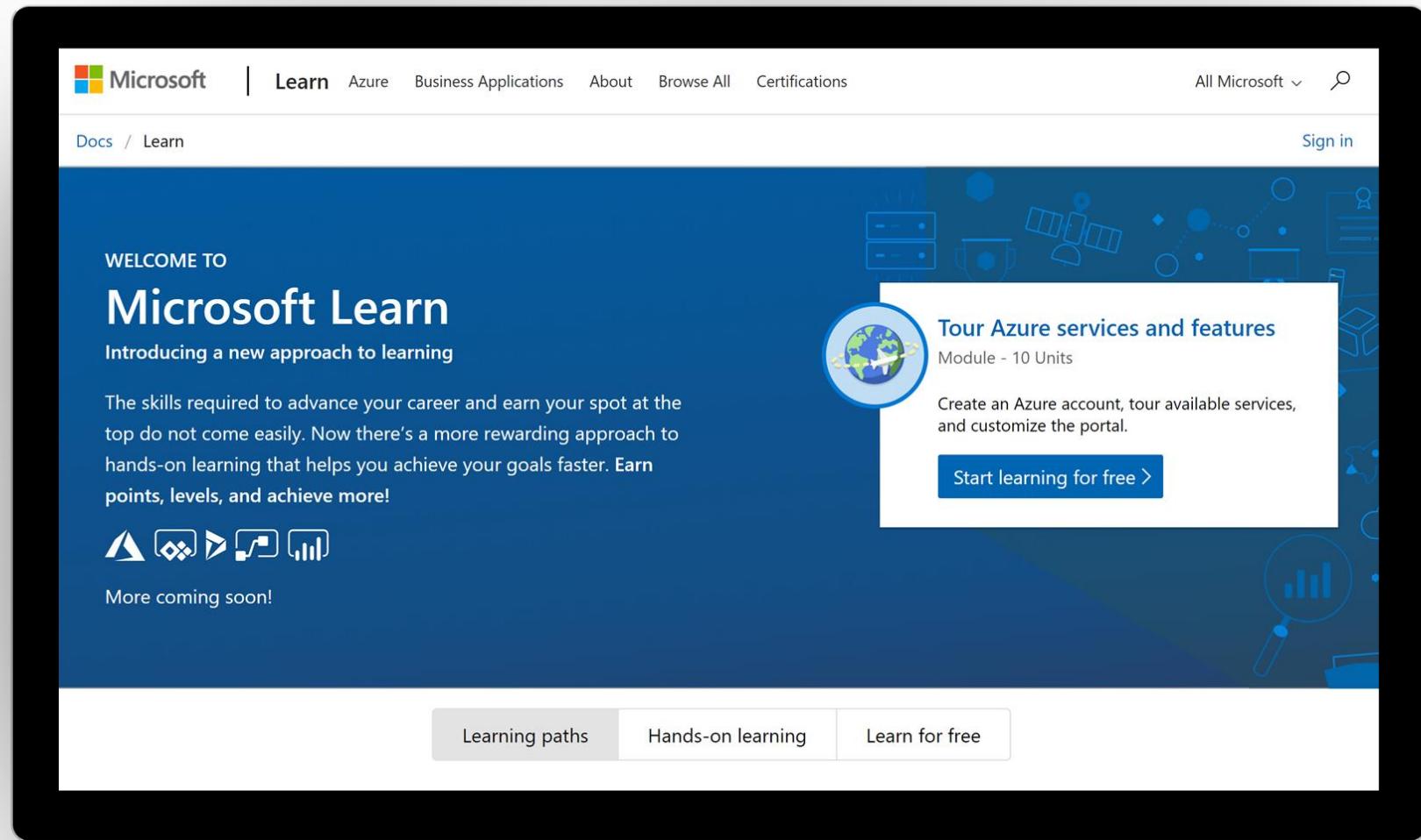
Browsers	Manage users and groups	Access levels
Connect to the web portal from the latest versions of these supported browsers	Add members to your project adds them to the Contributor group. When managing	All users that you add to your Azure DevOps organization or to

→ <https://Docs.Microsoft.com/en-us/Azure/DevOps/User-Guide/ALM-DevOps-Features>

Microsoft Learn

Build your skills fast with free, interactive tutorials at Microsoft Learn, a new training experience for technical users.

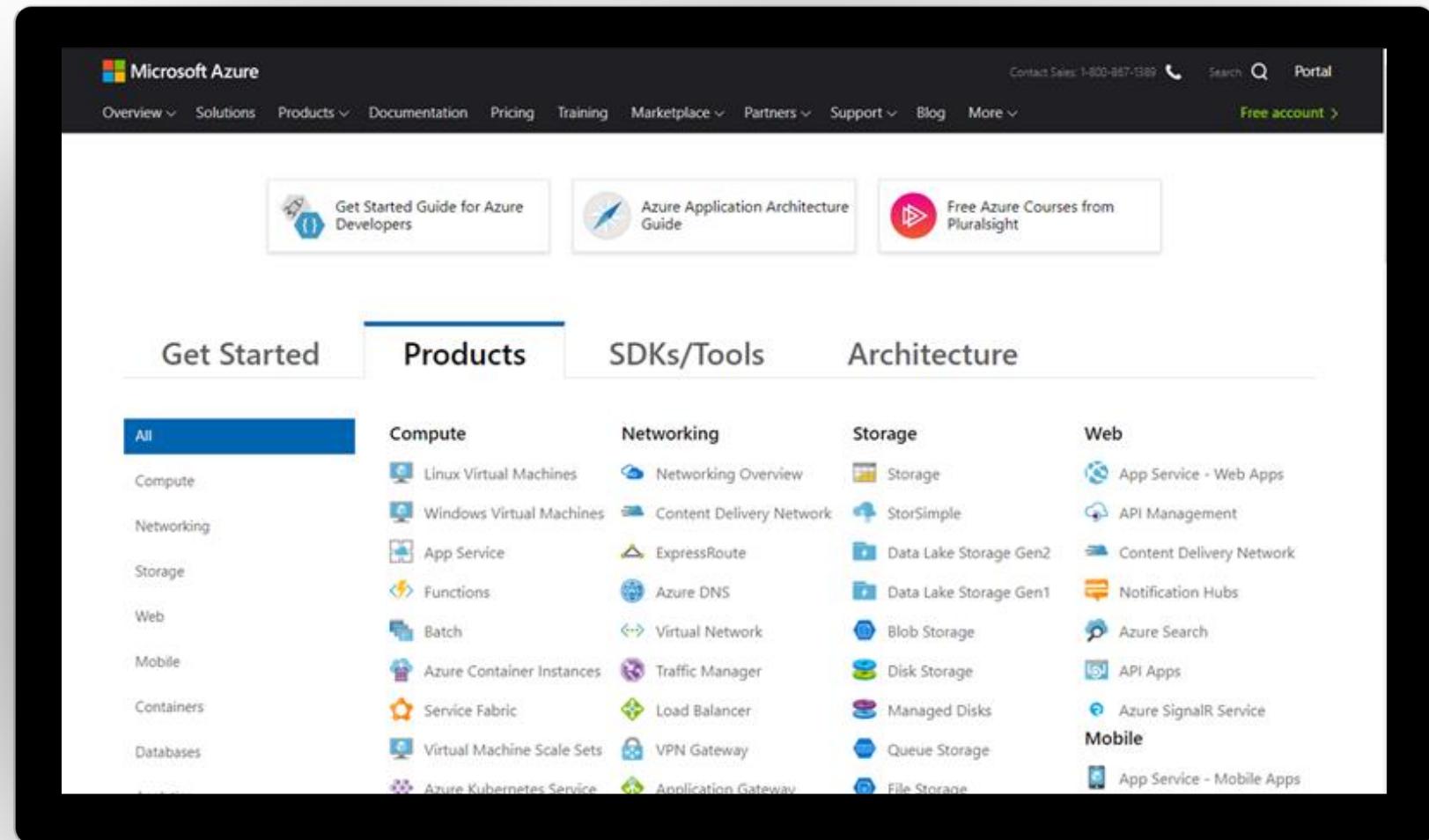
- Step-by-step training to fit your schedule
- Interactive coding environments for hands-on experience
- Earn achievements and recognition for your Azure skills
- We provide free Azure sandboxes, free virtual machines, etc. so there is nothing to setup ahead of time
- <http://www.Microsoft.com/Learn>



Documentation - Azure Services Index

Use this end-to-end index to learn about all the services available in Azure

- Use this end-to-end feature index to learn about all Azure services.
- If you only save one Favorite in your browser related to Azure, this is the link to save as a favorite!
- Most topics contain Quickstarts and Tutorials allowing you to gain hands-on experience quickly



<https://docs.microsoft.com/en-us/Azure/#pivot=products&panel=all>

Learn DevOps in the DevOps Resource Center

This center combines our resources on learning DevOps practices, Git version control, Agile methods, how we work with DevOps at Microsoft, and how you can assess your own DevOps progression

- Learn DevOps - DevOps is the union of people, process, and products to enable continuous delivery of value to our end users
- DevOps at Microsoft - This center will keep you current on how we adopt DevOps at Microsoft
- DevOps Self-Assessment - Get tailored recommendations on how to improve your organization's ability to develop and deliver value to customers, pivot when necessary, and beat competitors to market

The screenshot shows the Microsoft DevOps Resource Center landing page. The top navigation bar includes links for Microsoft, Visual Studio, Visual Studio Team Services, Features, Pricing, News, Support, Subscriber Access, and a Free Account button. A search bar and sign-in options are also present. The main content area features a title 'DevOps Resource Center' with a subtext explaining its purpose: 'This center combines our resources on learning DevOps practices, Git version control, Agile methods, how we work with DevOps at Microsoft, and how you can assess your own DevOps progression. Alternatively, you can jump to documentation on [getting started with DevOps on Azure](#) or to dive in, [start your own Azure DevOps project](#). If you're interested in practices, read on.' Below this, there are six cards arranged in a 2x3 grid, each with an illustration and a brief description:

- Learn DevOps:** DevOps is the union of people, process, and products to enable continuous delivery of value to our end users.
- Learn Git:** Git is a distributed version control system to track changes you make in your code over time.
- Learn Agile:** Agile approaches to software development emphasize incremental delivery, team collaboration, continual planning, and continual learning.
- DevOps at Microsoft:** This center will keep you current on how we adopt DevOps at Microsoft.
- DevOps Events and Talks:** Take a look at some of our recent events and talks.
- DevOps Self-Assessment:** Get tailored recommendations on how to improve your organization's ability to develop and deliver value to customers, pivot when necessary, and beat competitors to market.

DevOps at Microsoft

Learn from our DevOps journey and share our lessons learned with your team

- Create a series of “Lunch & Learn” sessions. Watch a video and have a follow up discussion with your team
- Or, treat it like a book club, i.e. have everyone watch a video and read the related narrative, then discuss it over lunch
- Either way, discuss with your team what is/is not applicable to your company, (or, what should be applicable in the future!)

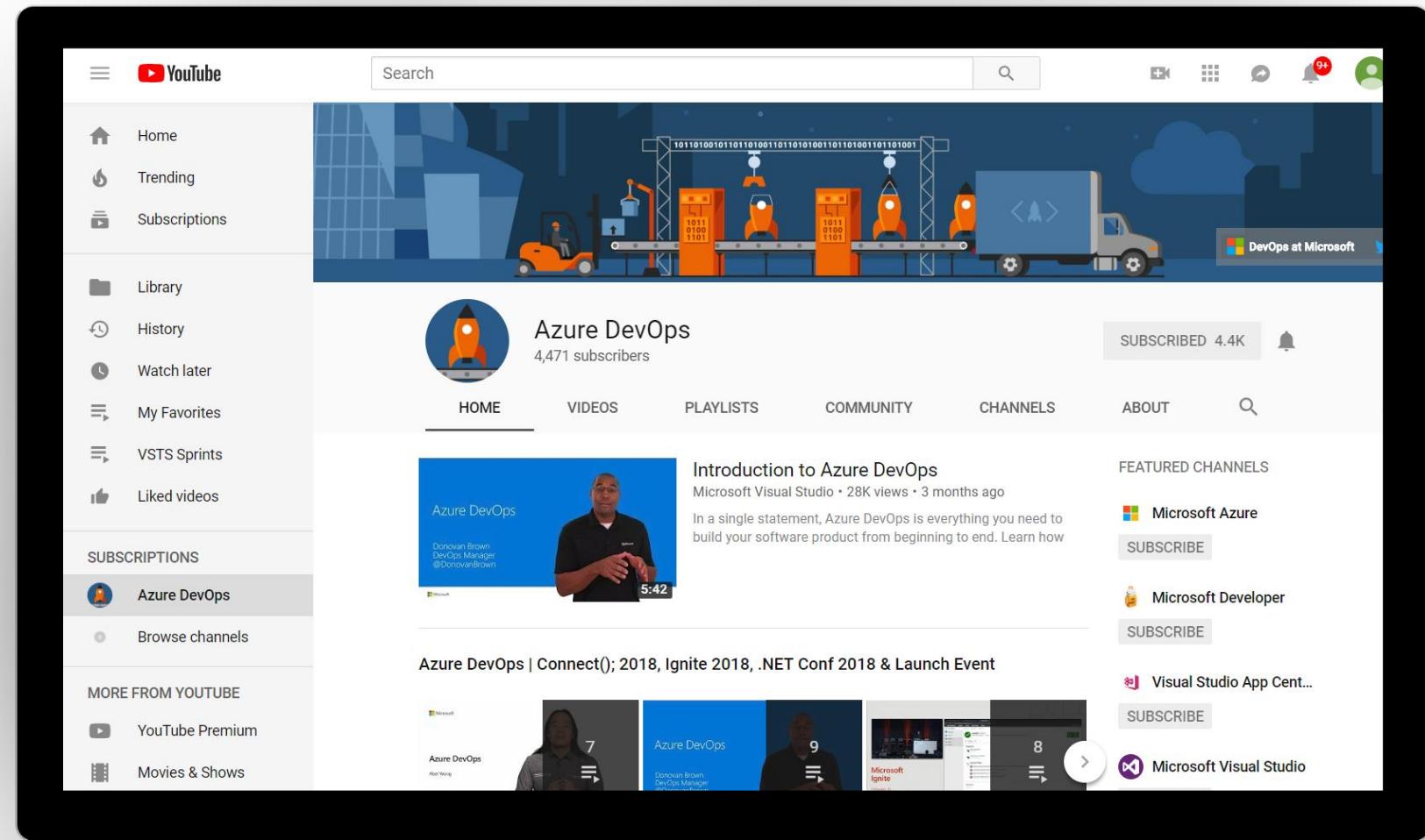
The screenshot shows the Microsoft DevOps at Microsoft landing page. The page features a navigation bar with links to Microsoft, Azure, DevOps, Services, Pricing, News, Support, and Subscriber Access. A "Try for free" button is also present. The main content area is titled "DevOps at Microsoft" and includes a bio for Sam Guckenheimer. Below the bio is a summary of the center's purpose, mentioning Azure DevOps, One Engineering System (IES), and Microsoft Research. A section titled "Why We Do DevOps at Microsoft" is shown with a video thumbnail of Martin Woodward speaking. The sidebar on the right lists categories such as "Why We Do DevOps at Microsoft", "How We Work with Azure DevOps", "How We Architect Azure DevOps", "Researching Software Practices", and "Events and Talks".

<http://aka.ms/DevOpsAtMicrosoft>

"DevOps at Microsoft" YouTube channel

Learn more about Azure DevOps through videos

- Events - Keynotes and break out sessions from events such as Connect(); Ignite, .NET Conf and //Build
- DevOps Interviews (Channel 9 Shows) - DevOps Interviews from around Microsoft and the community hosted by Microsoft's Donovan Brown
- DevOps Labs (Channel 9 Shows) - Damian Brady goes deep into various DevOps Pipelines topics
- DevOps On Azure - OSS Projects, Jenkins, Terraform & more



→ <https://www.youtube.com/channel/UC-ikyViYMM69jolAv7dIMsA>

Azure DevOps Podcast

The Azure DevOps Podcast is a show for developers and devops professionals shipping software using Microsoft technologies.

- Each show brings you interviews with industry experts sharing better methods & success stories.
- Listen in to learn how to increase quality, ship quickly, and operate well.
- Hosted by Jeffrey Palermo and sponsored by Clear Measure, Inc.

The screenshot shows the Azure DevOps Podcast website. At the top, there's a navigation bar with a search bar, an 'About' link, and an 'Episodes' dropdown. The main title 'Azure DevOps Podcast' is prominently displayed. Below the title, a message from Jeffrey Palermo welcomes listeners and introduces the sponsor, Clear Measure. There are social media sharing icons for Twitter, RSS, Pinterest, and LinkedIn. Two episodes are listed below:

- Aaron Palermo on Cybersecurity and SDP - Episode 018** (Jan 7, 2019) - A player shows the episode duration as 30 minutes and the current time as 00:00:00. It includes standard player controls like play/pause, volume, and seek.
- Gopinath Chigakkagari on Key Optimizations for Azure Pipelines - Episode 017** (Dec 31, 2018) - A brief description of the episode content is visible.

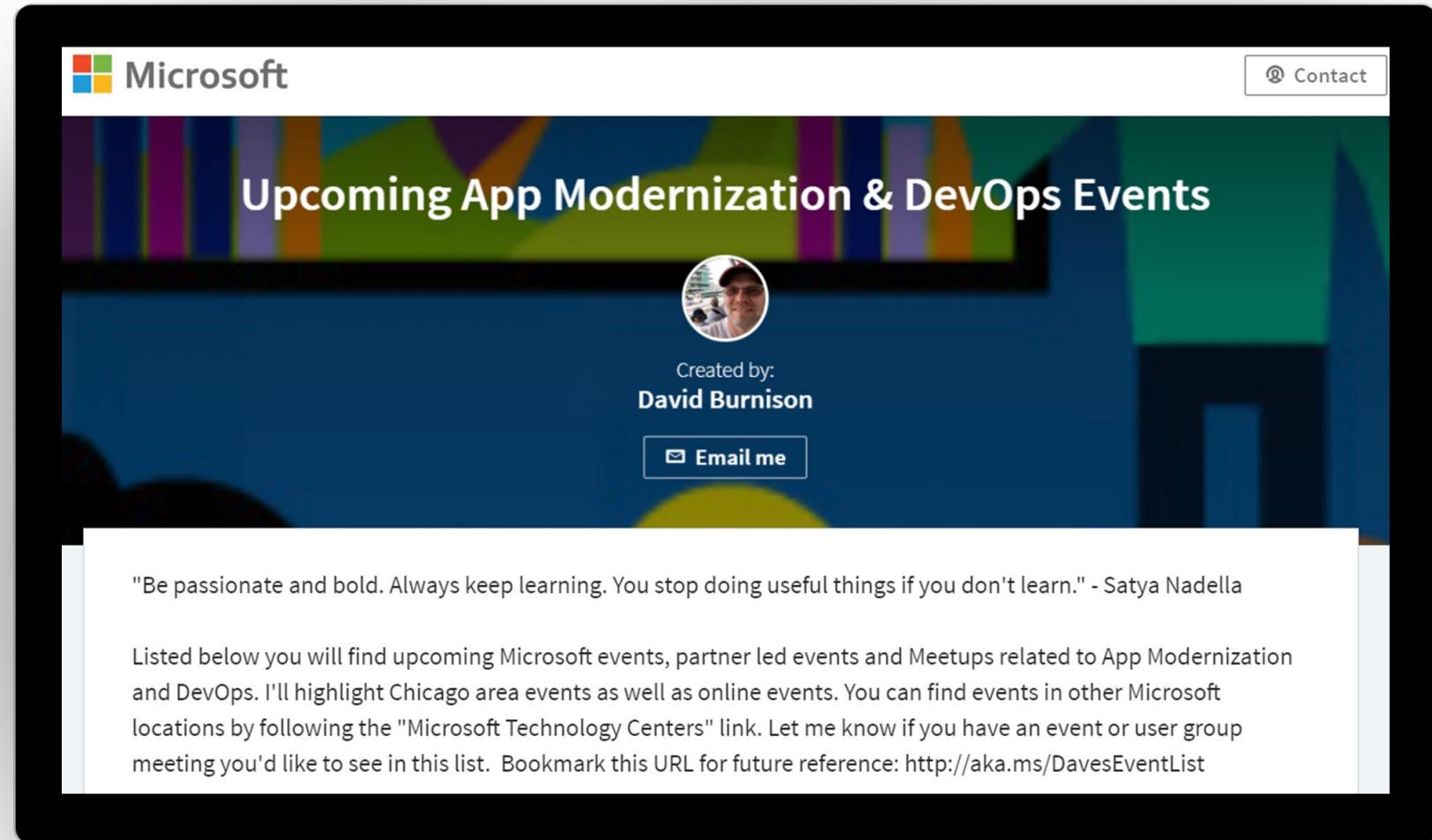


<http://AzureDevOpsPodcast.Clear-Measure.com>

Upcoming App Modernization & DevOps Events

Microsoft events, partner led events and Meetups related to App Modernization and DevOps

- I highlight Chicago area events as well as online live and on-demand events
- You can find events in other Microsoft locations by following the "Microsoft Technology Centers" link
- Let me know if you have an event or user group meeting you'd like to see in this list
- Bookmark this URL for future reference:
<http://aka.ms/DavesEventList>
- <http://aka.ms/DavesEventList>



Thank You!