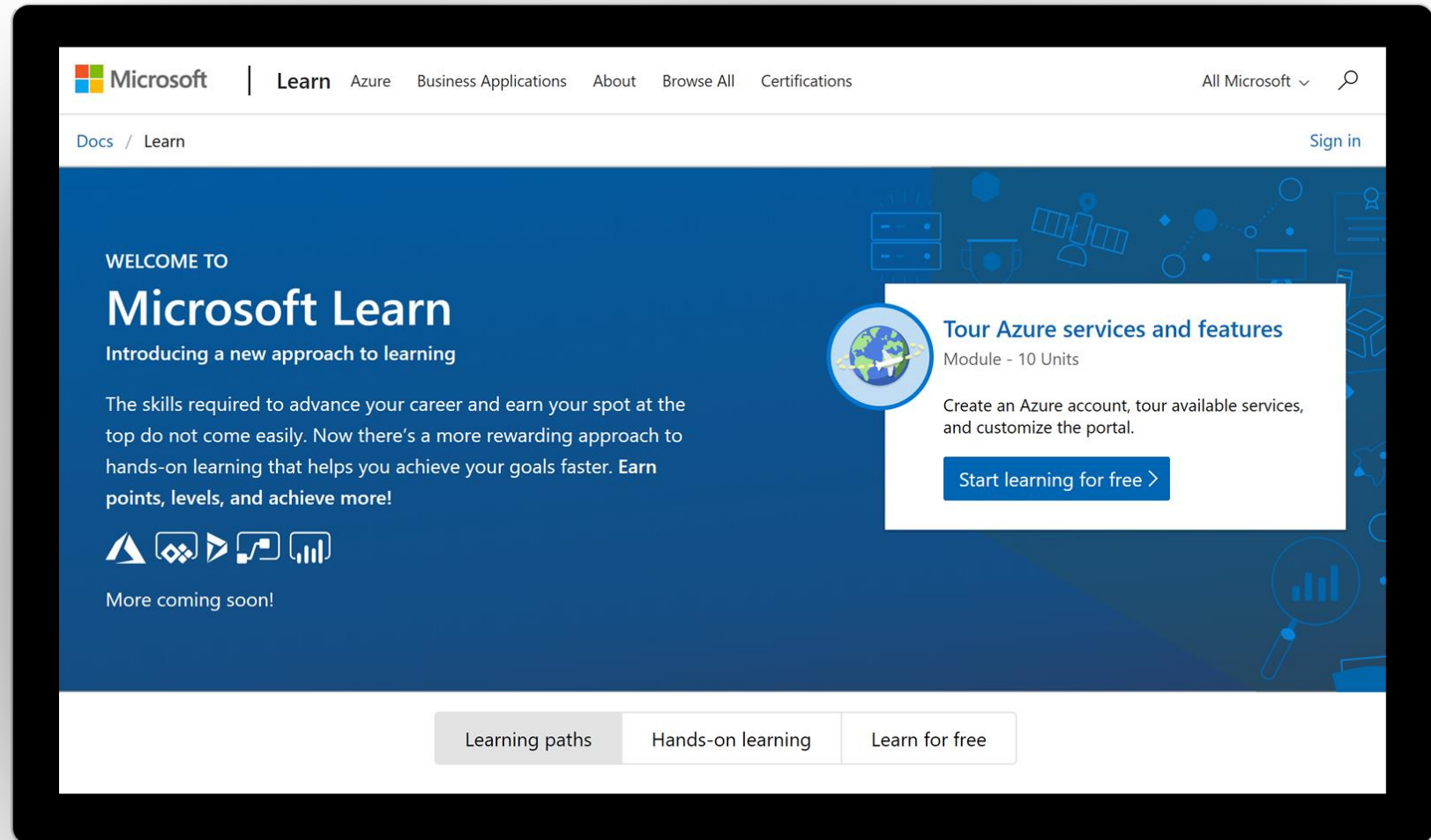**Microsoft**

Azure Dev Days – Hands On Labs

Microsoft Learn

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

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→ 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

Azure Learning Paths by Azure Service - Compute

Master core concepts at your speed and on your schedule. Whether you've got 15 minutes or an hour, you can develop practical skills through interactive training.

- [Azure Fundamentals](#) - Interested in the cloud, but aren't quite sure what it can do for you? This learning path is the place to start. Learn the benefits of cloud computing, features in Azure that will save you time and money, basic strategies for transitioning to the cloud and more.

- [App Service](#) - Web apps in Azure allow you to publish and manage your website easily without having to work with the underlying servers, storage, or network assets. Instead, you can focus on your website features and rely on the robust Azure platform to provide secure access to your site.

- [Containers](#) - Azure Container Instances are the quickest and easiest way to run containers in Azure. This learning path will teach you how to create and manage your containers, and how ACI can be used to provide elastic scale for Kubernetes.

- [Serverless](#) - Azure Functions enable the creation of event driven, compute-on-demand systems that can be triggered by various external events. Learn how to leverage functions to execute server-side logic and build serverless architectures.

Azure Learning Paths by Azure Service - Data

Master core concepts at your speed and on your schedule. Whether you've got 15 minutes or an hour, you can develop practical skills through interactive training.

- **Store data in Azure** - Azure provides a variety of ways to store data: unstructured, archival, relational, and more. Learn the basics of storage management in Azure, how to create a Storage Account, and how to choose the right model for the data you want to store in the cloud.

- **Cosmos DB** - Learn how to distribute your data globally with Azure Cosmos DB. In this module, you will:
  - Learn about the benefits of writing and replicating data to multiple regions around the world
  - Change the read and write priorities for the regions in which your data is located
  - Change the consistency setting for your database

- **Using Cosmos DB with other services** – Select from a number of modules that use Cosmos DB to provide highly scalable solutions.

- **SQL Databases** - Azure supports several popular SQL-based database solutions including SQL Server, PostgreSQL, and MySQL. Learn how to use these enterprise data solutions in Azure to store and retrieve your app's data in the cloud.

- **Using SQL Databases with other services** – Select from a number of modules that use SQL as part of the solution.

Azure Learning Paths by Azure Service – Cognitive Services

Master core concepts at your speed and on your schedule. Whether you've got 15 minutes or an hour, you can develop practical skills through interactive training.

- [Process images with the Computer Vision service](#) - **Use the Computer Vision API to analyze images for insights, extract text from images, and generate high-quality thumbnails. In this module, you will:**

  - Create a Cognitive Services account.
  - Get information about the visual content found in an image.
  - Generate a thumbnail of an image.
  - Detect and extract printed text from an image.
  - Detect and extract handwritten text from an image.

- [Write internet-connected Windows apps](#) - **Bring the intelligence of the internet to your Windows 10 apps. In this module, you will:**

  - Use Microsoft Azure's Cognitive Services platform to find images based on text descriptions
  - Write an app that connects to NASA's 'Astronomy Picture of the Day' service to download a picture

Azure Learning Paths by Azure Service – Other Services

Master core concepts at your speed and on your schedule. Whether you've got 15 minutes or an hour, you can develop practical skills through interactive training.

- **DevOps - In this module, we'll explore DevOps and learn how to get started with Azure DevOps. In this module, you will:**
  - Learn how Azure DevOps can provide a streamlined DevOps pipeline
  - Sign up for a free Azure DevOps account
  - Create a new project in Azure DevOps

- **Key Vault - Your application requires service passwords, connection strings, and other secret configuration values to do its job. Storing and handling secret values is risky, and every usage introduces the possibility of leakage. Azure Key Vault, in combination with managed identities for Azure resources, enables your Azure web app to access secret configuration values easily and securely without needing to store any secrets in your source control or configuration.**

- **Azure Active Directory – Review topics that include how to use Azure Monitor**

- **Monitor - (Application Insights & Log Analytics) – Review topics that include how to use Azure Monitor**
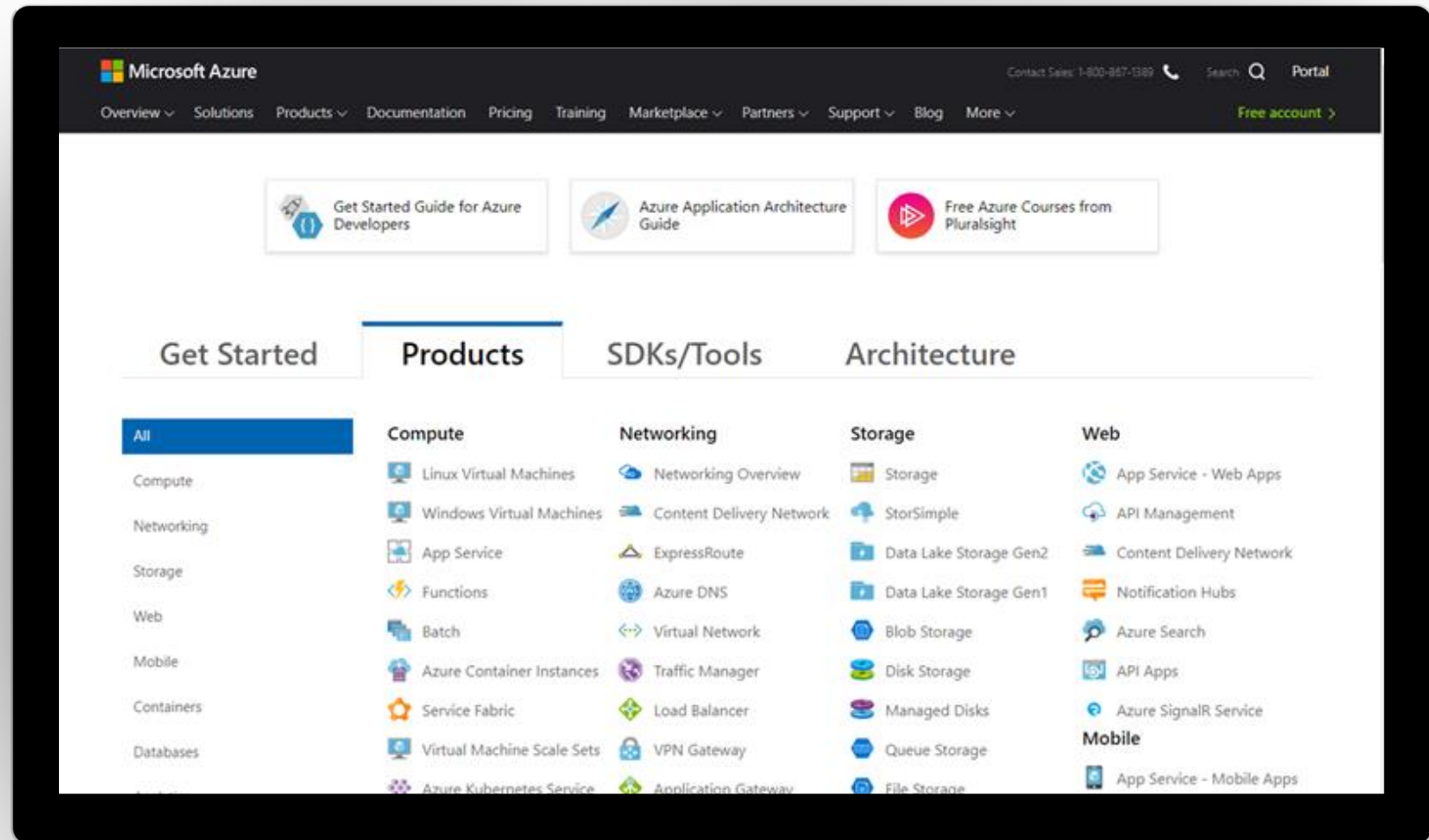
Azure Learning Paths by Role

Up your game with a learning path tailored to today's developer and technology masterminds and designed to prepare you for industry-recognized [Microsoft certifications](#).

- [Solution Architect](#)

- [Developer](#)

- [Administrator](#)

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!

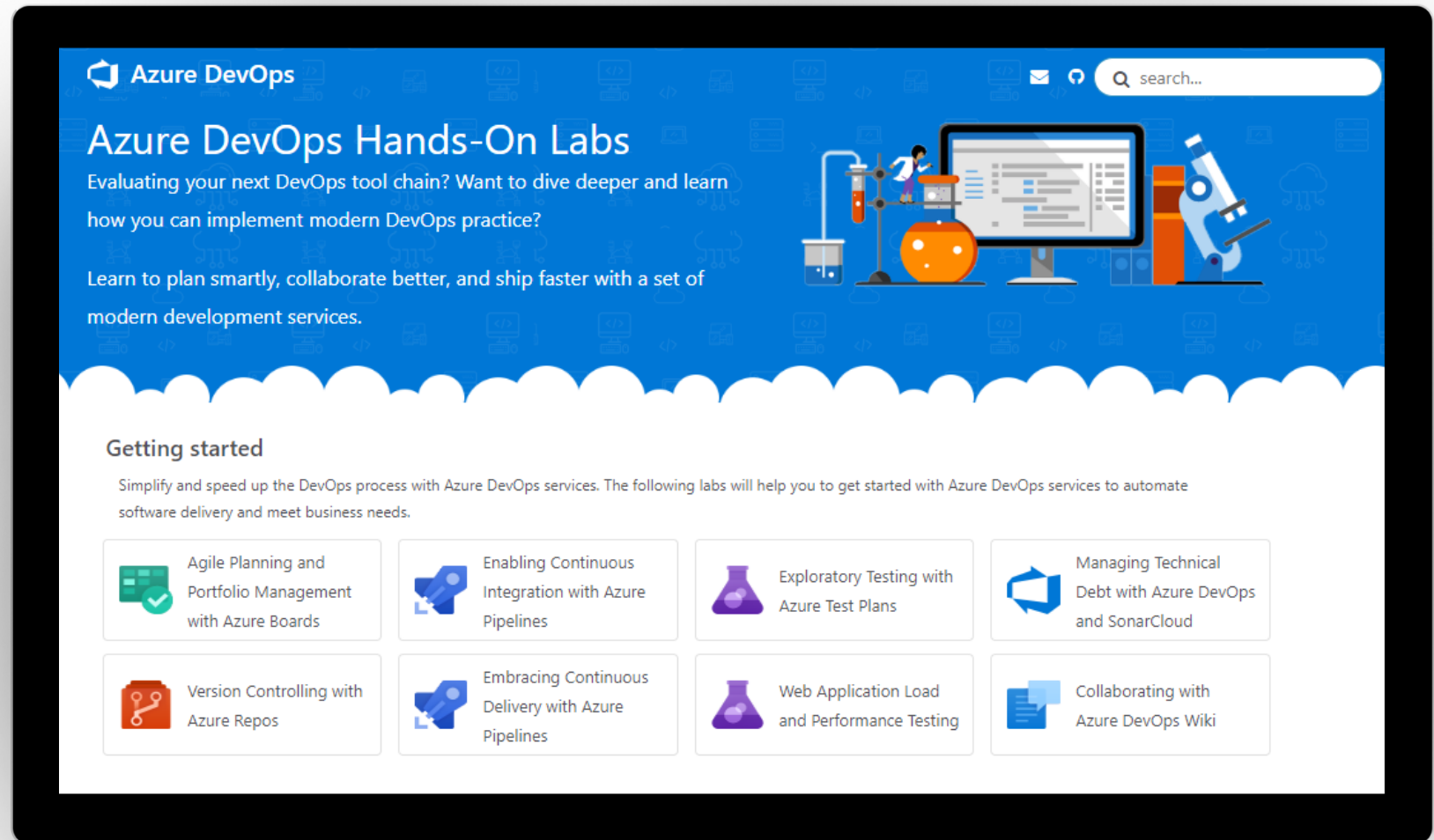→ Most topics contain Quickstarts and Tutorials allowing you to gain hands-on experience quickly

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

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.

→ https://www.AzureDevOpsLabs.com

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.

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
- Version Controlling with Azure Repos
- Embracing Continuous Delivery with Azure Pipelines
- Web Application Load and Performance Testing
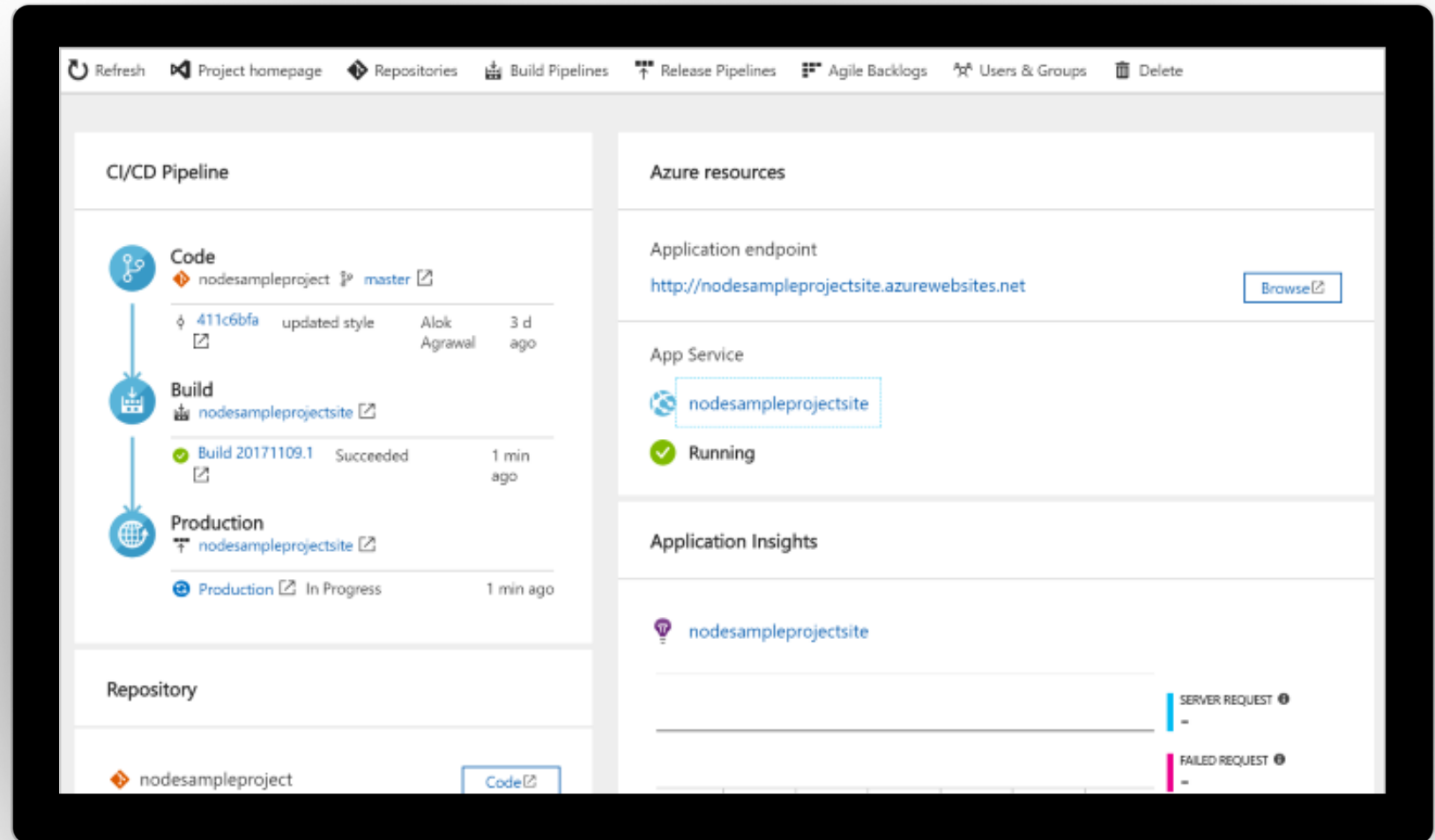- Collaborating with Azure DevOps Wiki

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, Kubernates, soon VMs and more.

→ Customize, extend and scale when needed.

↻ Refresh   ◇ Project homepage   ◆ Repositories   ⛏ Build Pipelines   ⬆ Release Pipelines   ⊞ Agile Backlogs   ⚇ Users & Groups   🗑 Delete

CI/CD Pipeline

Code
◆ nodesampleproject   ⅄ master ↗
⅄ 411c6bfa   updated style   Alok Agrawal   3 d ago ↗

Build
⛏ nodesampleprojectsite ↗
✅ Build 20171109.1   Succeeded   1 min ago ↗

Production
⬆ nodesampleprojectsite ↗
🌐 Production ↗   In Progress   1 min ago

Repository
◆ nodesampleproject   [Code ↗]

Azure resources

Application endpoint
http://nodesampleprojectsite.azurewebsites.net   [Browse ↗]

App Service
⊗ nodesampleprojectsite
✅ Running

Application Insights

💡 nodesampleprojectsite

SERVER REQUEST ⓘ

FAILED REQUEST ⓘ

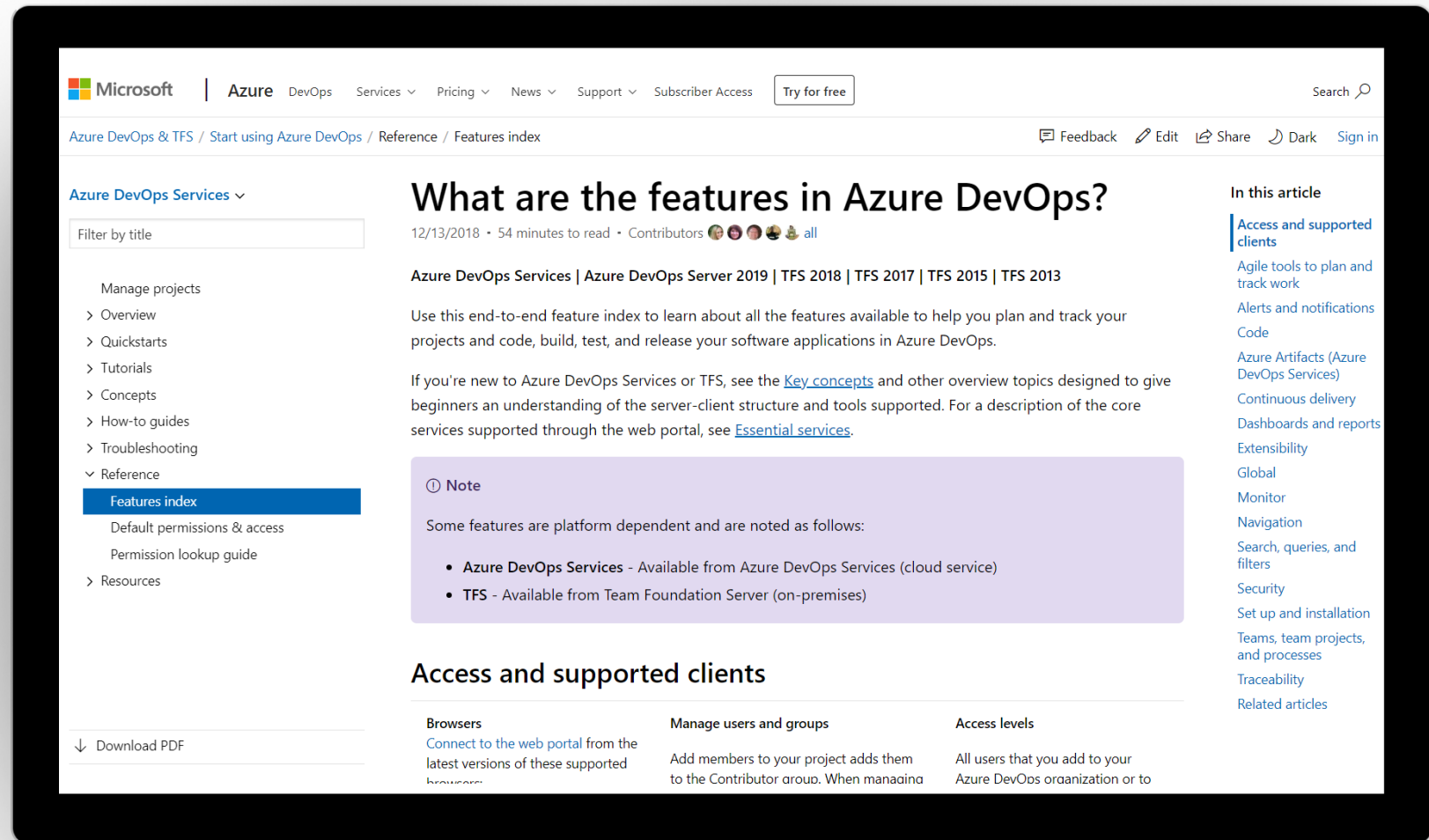→ https://docs.microsoft.com/en-us/azure/devops-project/

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!

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

Thank You!

Please fill out survey

Content: aka.ms/milwaukeedevdays
Survey: aka.ms/ncrdevdayssurvey