

MENAKA BASKARPILLAI

Associate Software Engineer - Accenture Digital

- C# Corner MVP
- Azure and .Net Certified Professional
- Blogger and Speaker



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AGENDA

DevOps Starter

Why we need DevOps Starter

Docker Containerization

Azure Kubernetes

CI/CD Pipeline for .Net Core app with DevOps Starter

Deploy the .Net Core App in Azure Kubernetes

DEVOPS STARTER

- Sets up everything you need for developing, deploying, and monitoring your application.
- Monitor code commits, builds, and deployments, all from a single view in the Azure portal.
- Quickly deploy your application to Azure
- Automate the setup of a CI/CD pipeline

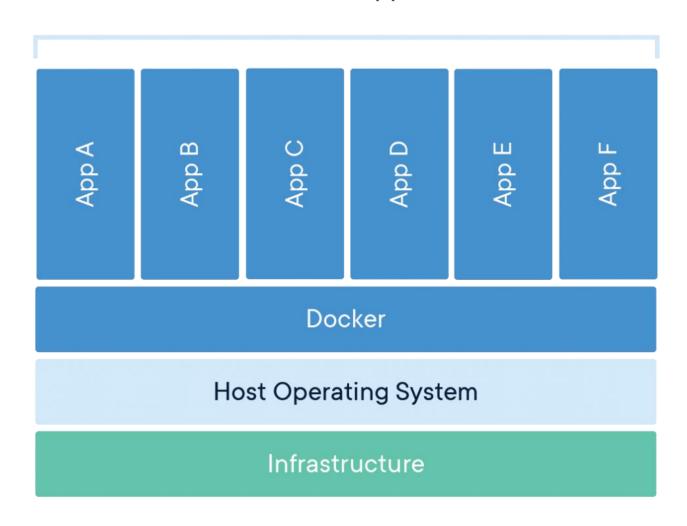
WHY WE NEED DEVOPS STARTER?

- Customize your build and release pipeline
- Use pull requests to manage your code flow and keep your quality high
- Test and build each commit before you merge your code to raise the quality bar
- Track your backlog and issues right along with your application

DOCKER CONTAINERIZATION

- A standardized unit of software
- Package Software into Standardized Units for Development, Shipment and Deployment.
- Platform addresses the global architectural requirements for your application portfolio including infrastructure, networking, storage, logging, monitoring, etc.
- Pipeline builds a unified, secure and automated end-to-end application delivery pipeline.
- Application evaluation examines your complete application portfolio and its attributes to help you prioritize candidates for containerization, maintenance and refactoring

Containerized Applications



CONTAINERIZED APPLICATIONS

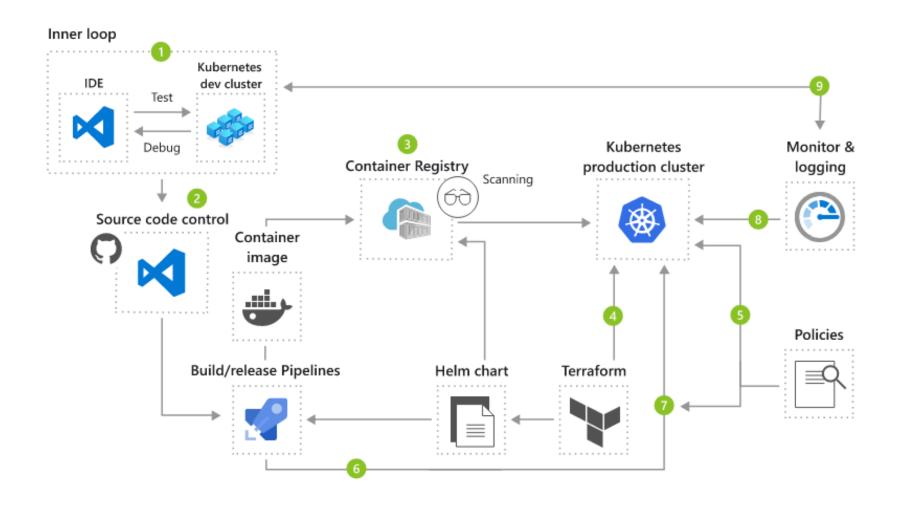
AZURE KUBERNETES (AKS)

- Build, deliver and scale containerized apps.
- Removes the complexity of managing multiple containers deployed across multiple server.
- Implement your container-based applications in a portable, scalable and extensible way.
- Manages load Balancing.
- Manages Resource allocation and scaling.
- Self-healing of application.

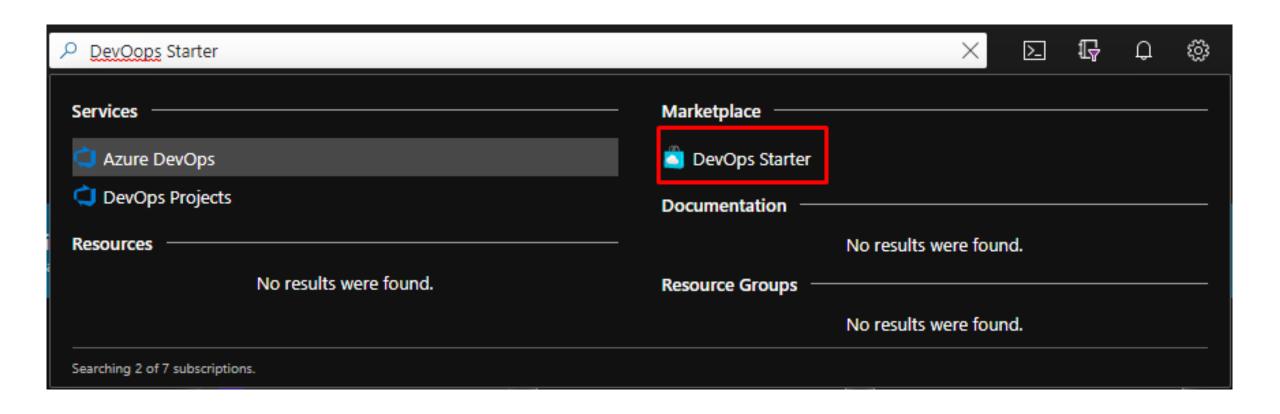
KUBERNETES WITH DEVOPS

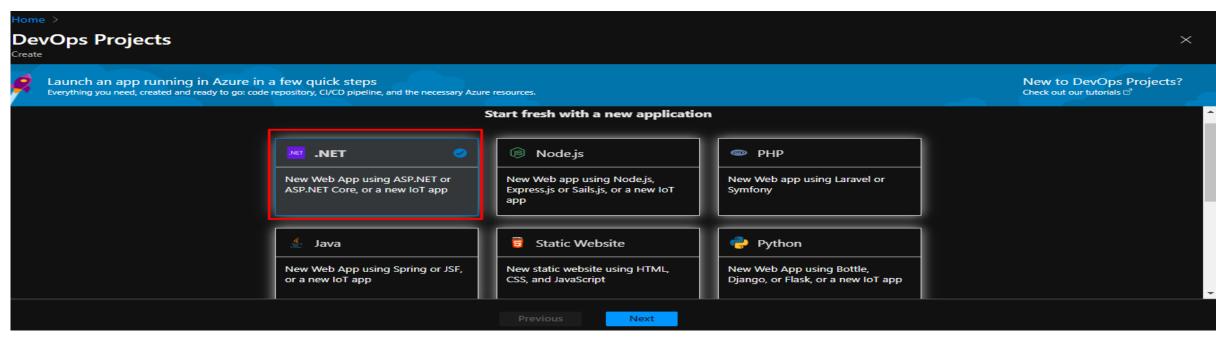
- Deliver code faster with CI/CD
- Manage resources effectively with infrastructure as code
- Accelerate the feedback loop with constant monitoring
- Balance speed and security with DevOps

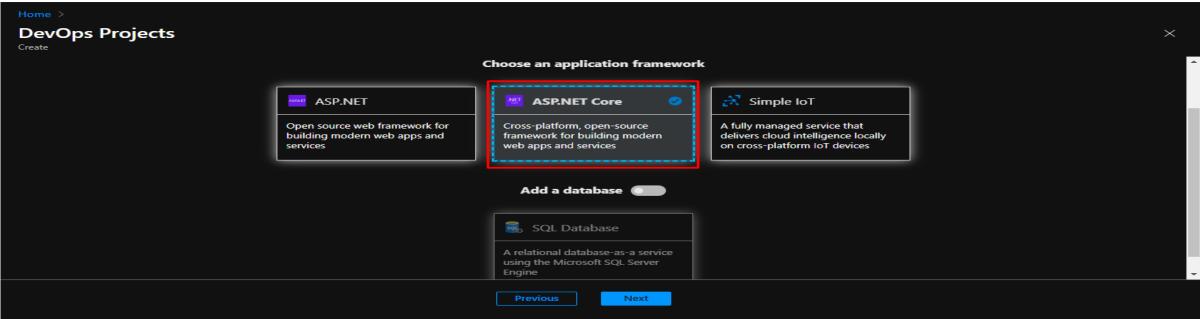
DEVOPS WORKFLOW WITH KUBERNETES

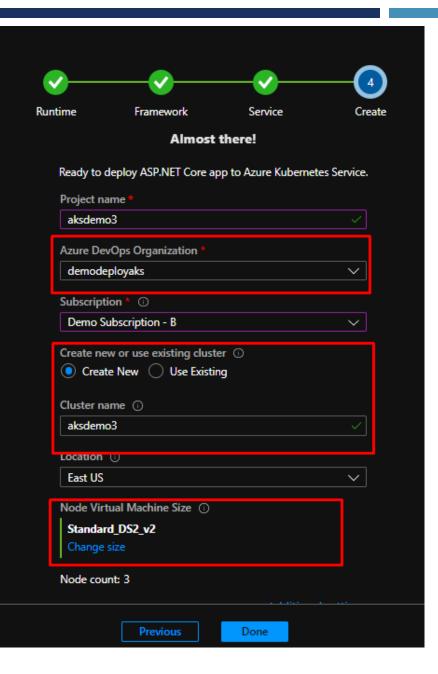


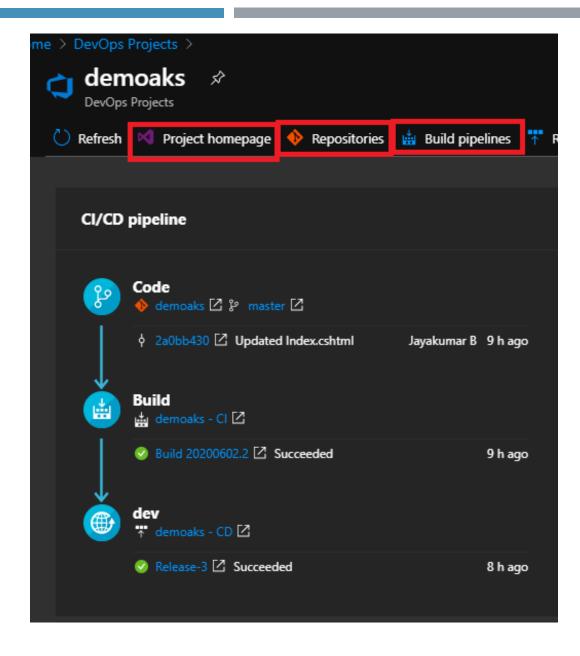
DEMO









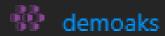


Azure resources

Services

NAME	NAMESPACE	EXTERNAL ENDPOINT
sampleapp	dev06c1	52.188.153.178:80

Kubernetes Service

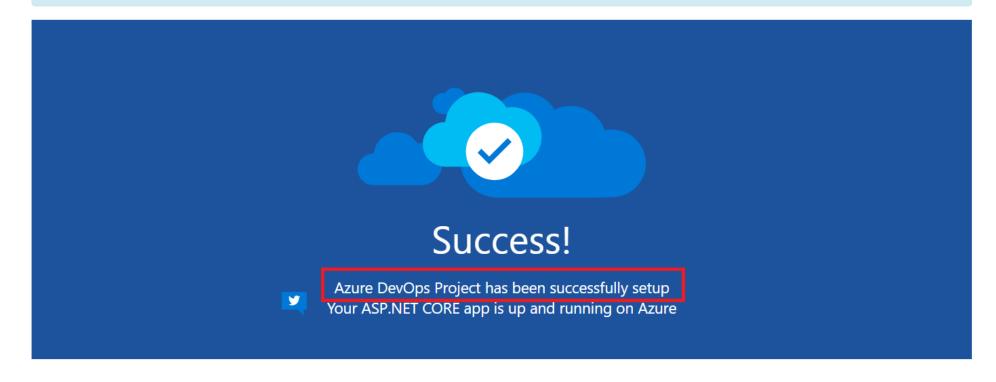






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Get started right away

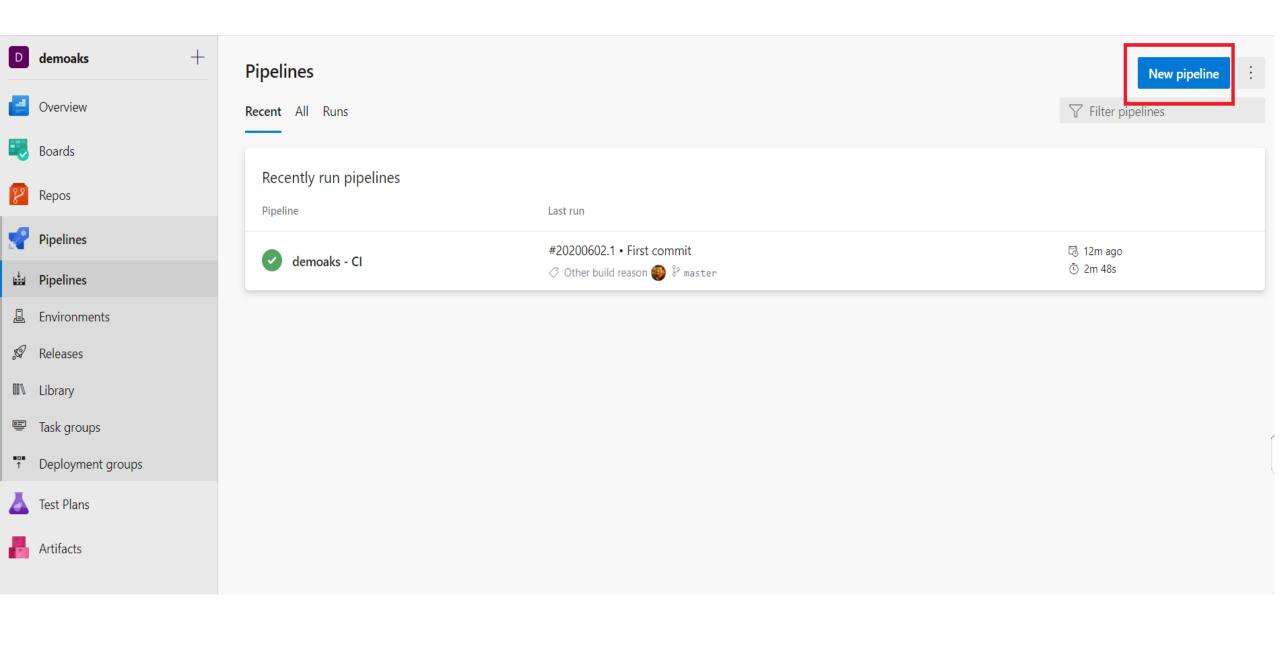
Clone your code repository and start developing your application on IDE of your choice

Continuous Delivery

View your CI/CD pipeline on Azure Devops and customize it as per your needs

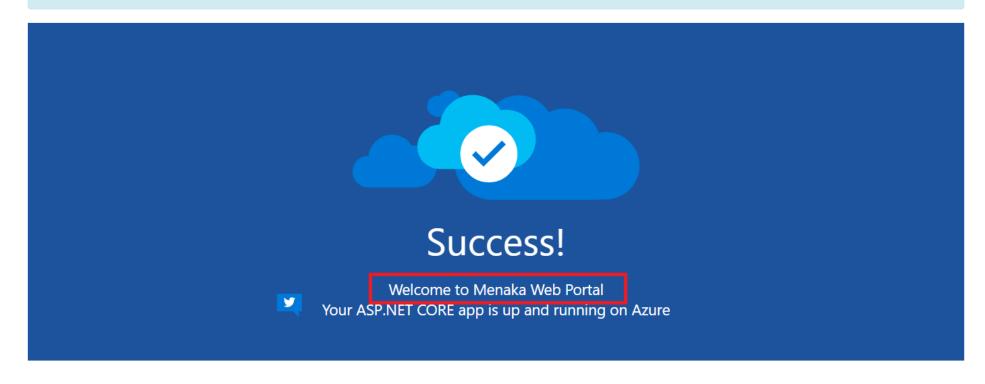
Azure DevOps Project

Learn more about all you can do with Azure DevOps project by visiting the documentation



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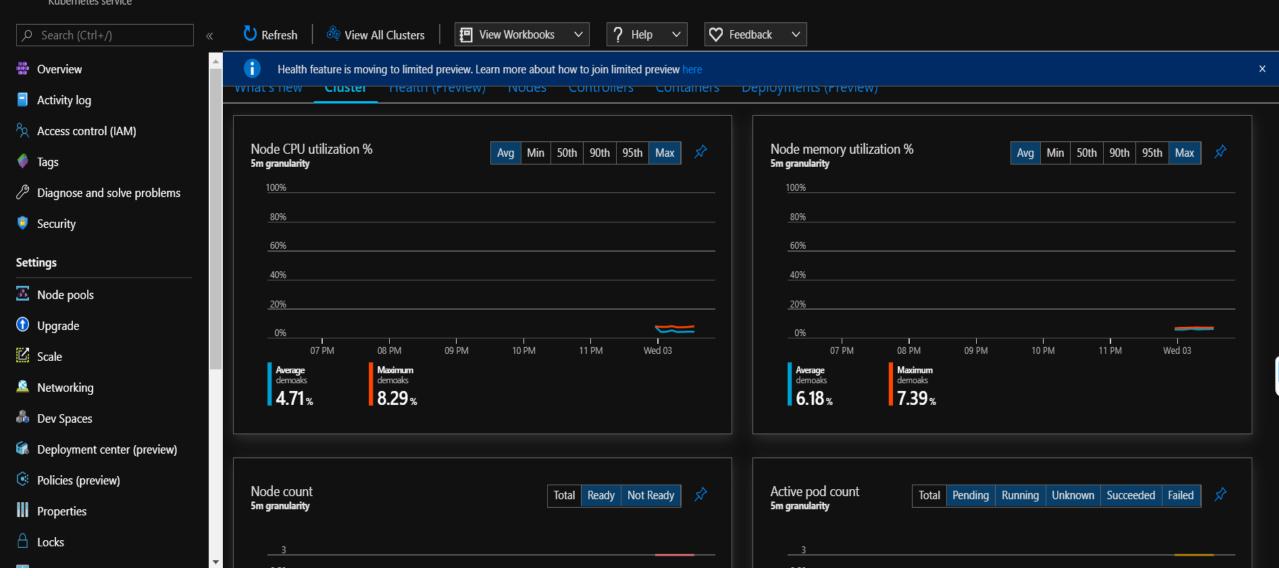
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X



THANK YOU



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