Visual Studio と Azure Container Service (AKS) を用いたモダンなコンテナアプリ開発

日本マイクロソフト株式会社 アーキテクト 廣瀬一海(デプロイ王子)







	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DEVICE	
VIM	C#	AZURE CONTAINER SERVICE	Any developer
VISUAL STUDIO	C++	WINDOWS DEVICE	Any app
VISUAL STUDIO CODE	NODE.JS	AZURE WEB APP	Any platform
VISUAI		AZURE	

VISUAL STUDIO	ASP.NET	AZURE LINUX VM
VISUAL STUDIO CODE	C #	iOS DEVICE
XAMARIN STUDIO	C++	AZURE WINDOWS VM
EMACS	NODE.JS	ANDROID DEVICE

		SERVICE
VIM	HTML/JS	WINDOWS DEVICE
VISUAL STUDIO	ASP.NET	AZURE WEB APP
VISUAL STUDIO CODE	C#	AZURE LINUX VM
VISUAL		iOS

·		SERVICE
VISUAL STUDIO	C++	WINDOWS DEVICE
VISUAL STUDIO CODE	NODE.JS	AZURE WEB APP
VISUAL STUDIO MAC	PYTHON	AZURE LINUX VM
		iOS

		DEVICE
VIM	C #	AZURE CONTAINER SERVICE
VISUAL STUDIO	C++	WINDOWS DEVICE
VISUAL STUDIO CODE	NODE.JS	AZURE WEB APP
VISUAL		AZURE

STUDIO		WEB APP
VISUAL STUDIO CODE	ASP.NET	AZURE LINUX VM
VISUAL STUDIO MAC	C#	iOS DEVICE
EMACS	C++	AZURE WINDOWS VM
		ANDROID

STUDIO		DEVICE
EMACS	NODE.JS	AZURE WEB APP
VIM	PYTHON	AZURE LINUX VM
VISUAL STUDIO	HTML/JS	iOS DEVICE
VISUAL		AZURE



Containers

Microservices + Containers





Azure Container Services (AKS)

Fully managed Kubernetes orchestration service

Auto patching, auto scaling, auto updates

Use the full Kubernetes ecosystem

Azure and Azure Stack



Azure Container Registry

Single registry/image/tag names can be used across multiple regions
Network-close registry access from regional deployments
Keep container images near deployments to reduce latency and costs
Single management of a registry across multiple regions







Production-Grade Container Orchestration

Automated container deployment, scaling, and management

Try Our Interactive Tutorials

Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications.

It groups containers that make up an application into logical units for easy management and discovery. Kubernetes builds upon 15 years of experience of running production workloads at Google, combined with best-of-breed ideas and practices from the community.





Planet Scale

Designed on the same principles that allows Google to run billions of containers a week, Kubernetes can scale without increasing your ops team.

Never Outgrow

Whether testing locally or running a global enterprise, Kubernetes flexibility grows with you to deliver your applications consistently and easily no matter how complex your need is.





NOW AVAILABLE: SELF-PACED CLASS KUBERNETES FUNDAMENTALS

Learn how to deploy a containerized application and manipulate resources via the API.

REGISTER NOW

Currently Hosted Projects













Orchestration

Monitoring

Distributed Tracing API

Logging

Service Mesh

Remote Procedure Call













Service Discovery

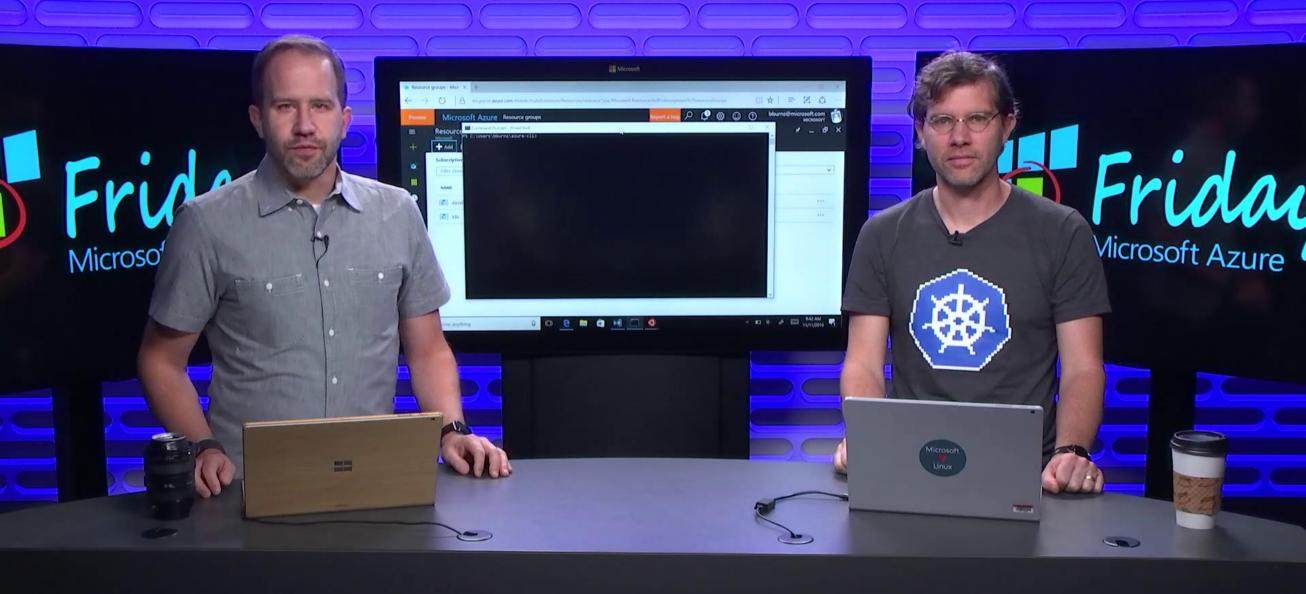
Container Runtime

Container Runtime

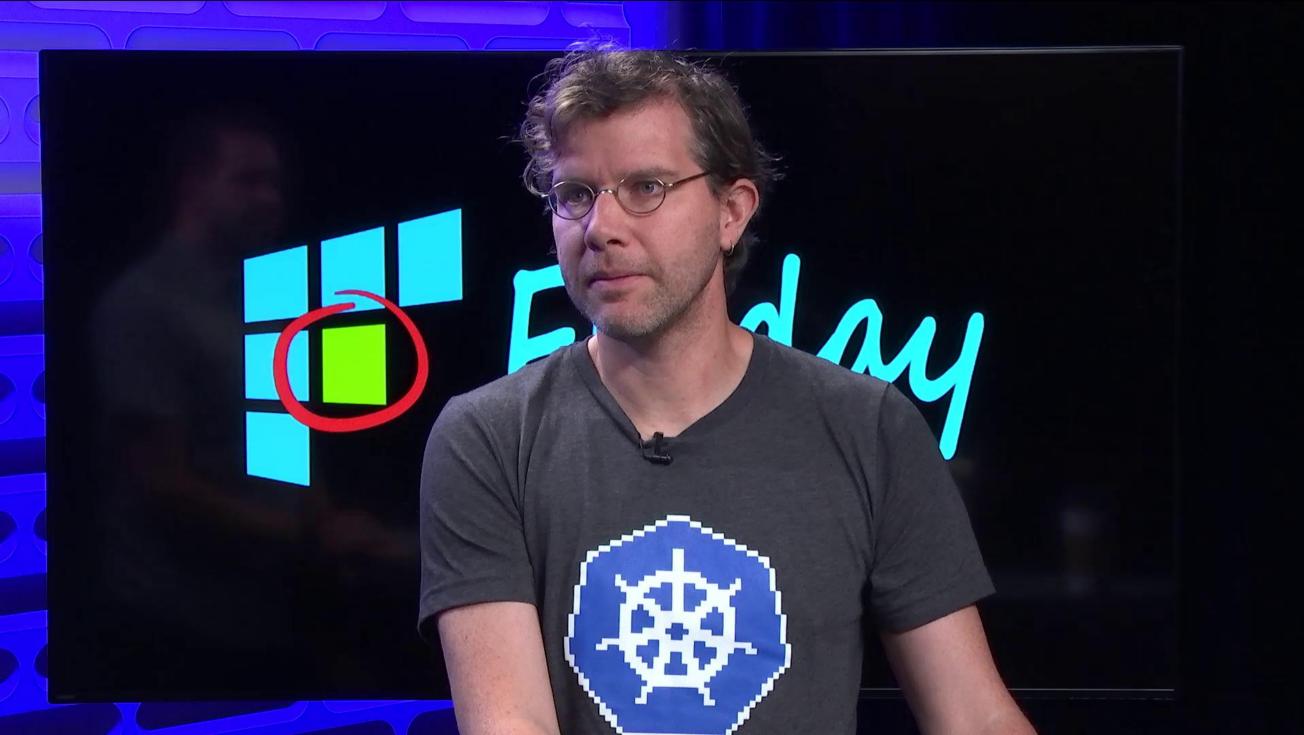
Networking API

Service Mesh

Distributed Tracing



Microsoft



Brendan Burns Distinguished Engineer at Microsoft

DevOps & Containers on Azure: Azure Container Service, Azure Container Instances, Azure Cloud Console, Azure Resource Manager



Demo

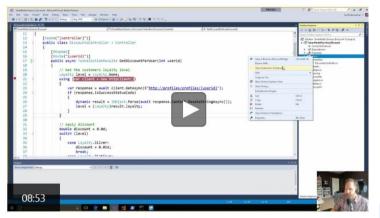
Azure Container Service and Azure Container Registry



Visual Studio Connected Environment for AKS

Inner-loop development with containers

Iteratively develop with speed on Kubernetes
Test in your team's shared environment
Harness the power of open ecosystems



直接デバッグとステップ実行

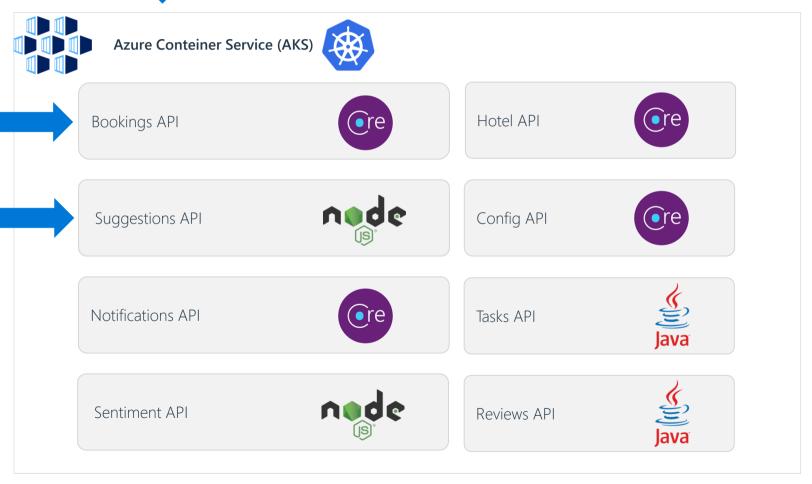
```
Sign Product to Care and Care
```

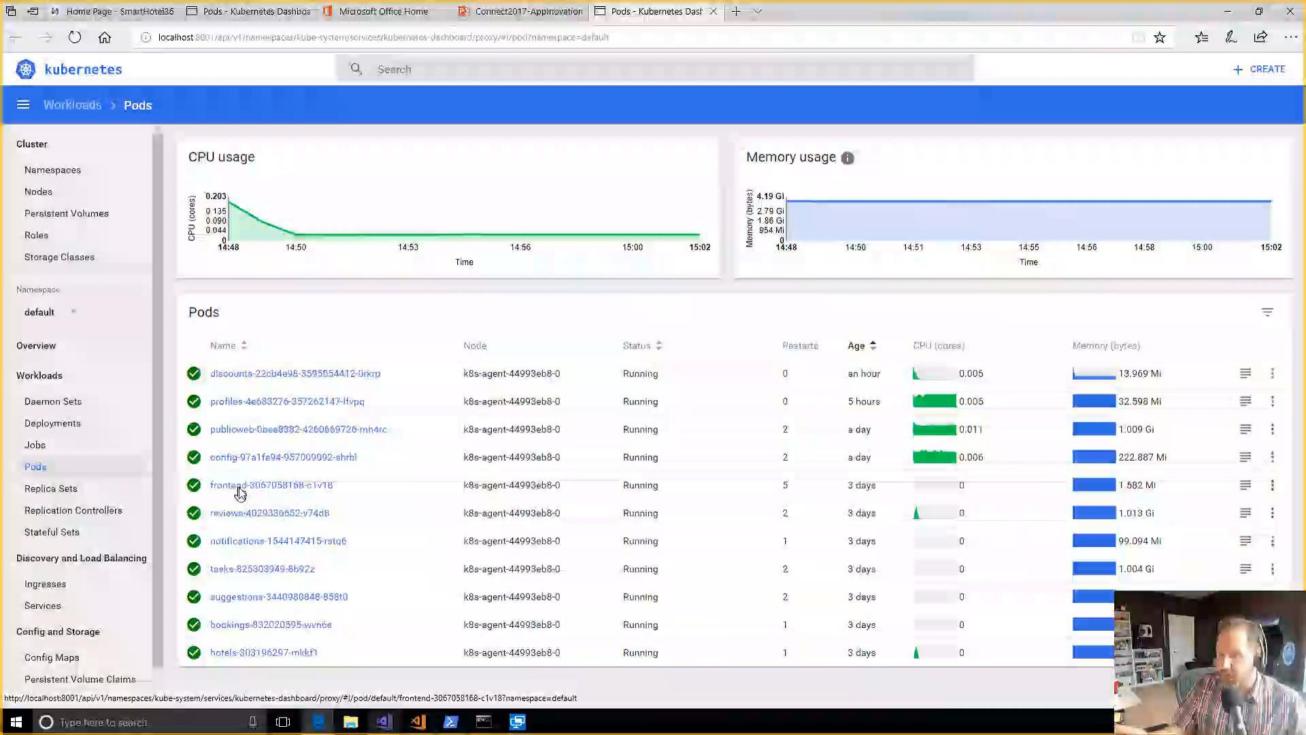


Azure Container Registry



デプロイメントとオーケストレーション



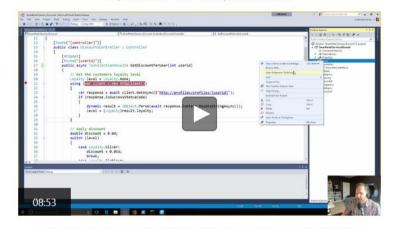


Visual Studio Connected Environment for AKS

Previewユーザを募集中です。 http://landinghub.visualstudio.com/vsce Visual Studio Connected Environment Sign Up

Visual Studio Connected Environment for AKS

Rapid Kubernetes Development in Azure



Join the preview and shape the future of cloud native application development

Sign Up

Iteratively develop with speed on Kubernetes

Today's iterative development loop for building containerized applications is laborious: edit code, build containers, publish updated images, deploy, diagnose via logs... Each iteration takes minutes! With Visual Studio Connected Environment, you can run and debug your container code just by hitting F5. Connected Environment links Visual Studio to Azure-managed Kubernetes and automatically syncs and launches your code with minimal setup on your local machine.

