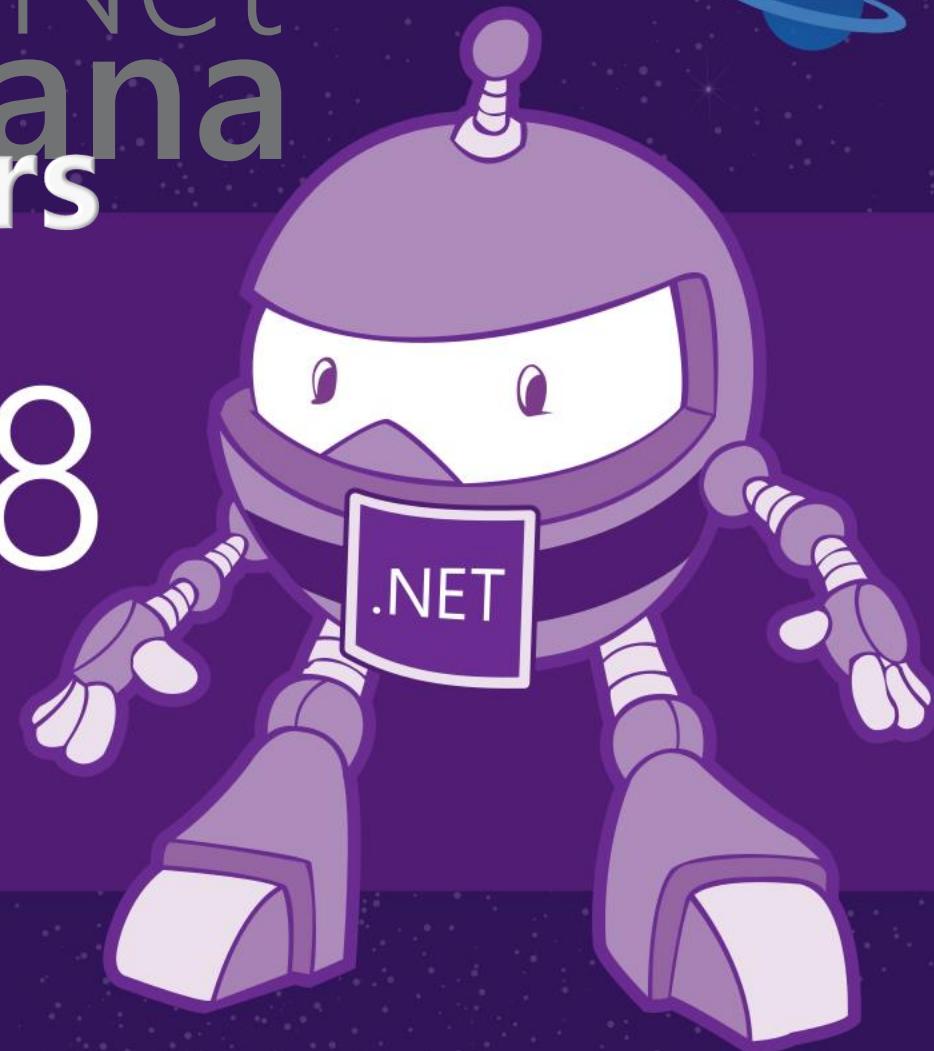




.NET Conf 2018

Discover the world of .NET



www.dotnetconf.net

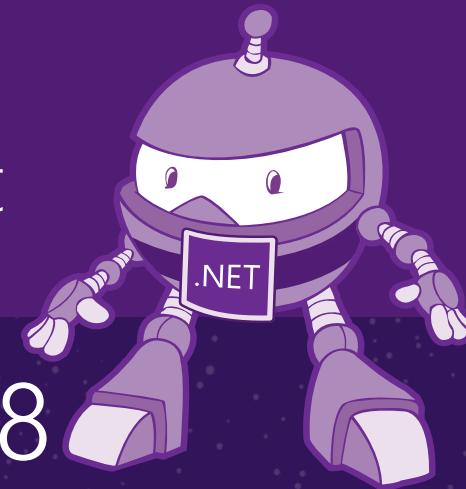
Microsoft Azure

Pietro Brambati

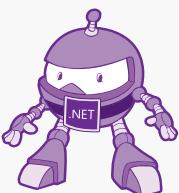
Partner Technology Strategist | Cloud Solution Architect
OCP

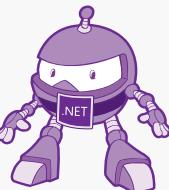
 @pietrobr

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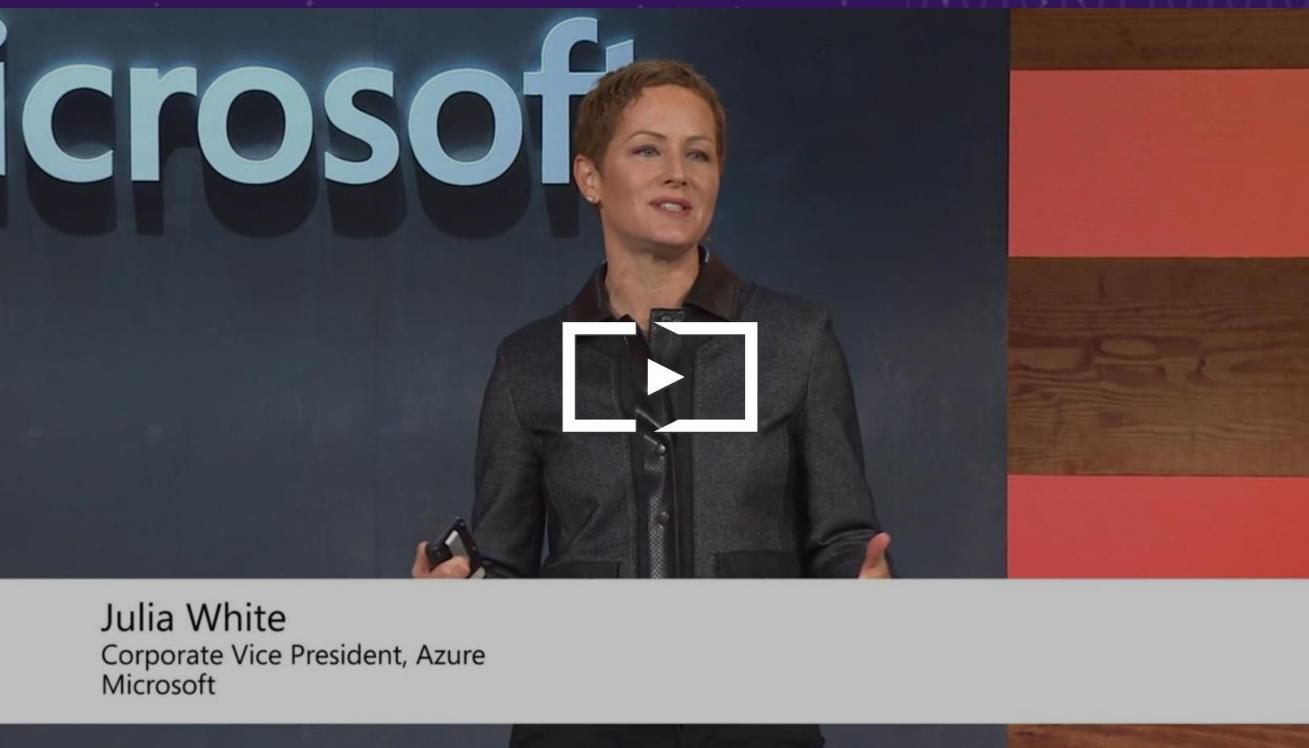


Io c'ero 😊

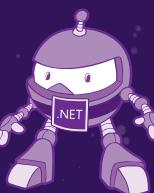




Microsoft Ignite 2018 keynote



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Microsoft Azure

Microsoft Azure

Productive + Hybrid + Intelligent + Trusted

Azure

Hybrid Infrastructure

App Modernization

Data + AI

Internet of Things

Azure



Hybrid Infrastructure

App Modernization

Data + AI

Internet of Things

Comprehensive VM offerings



Entry level



General Purpose



Burstable



Compute Intensive



Storage Optimized



Memory Optimized



Graphics Intensive



High Performance Computing



SAP HANA certified

Announcing

Ultra SSD Disks

Supports up to 160,000 IOPs

4GB to 64TB in size

<1ms read/write latency

Azure



Announcing

Networking

100Gb/sec Express Route

Azure Front Door

Azure Virtual WAN

Azure Firewall



Now GA

Azure Data Box



Now GA

Data Box

Capacity: 100 TB



New

Data Box Heavy

Capacity: 1 PB



New

Data Box Edge

Local cache capacity: ~12 TB



Secure, ruggedized appliance

AI enabled compute

SAP on Azure

More SAP HANA certifications
than any other vendor

24TB bare-metal machines

12TB VMs for SAP HANA
coming soon

Integration with Azure
data services

SAP Customers on Azure

		DAIMLER			
					
					
					
					

Hybrid

New

Windows Virtual Desktop

Best virtualized Windows and Office, delivered on Azure

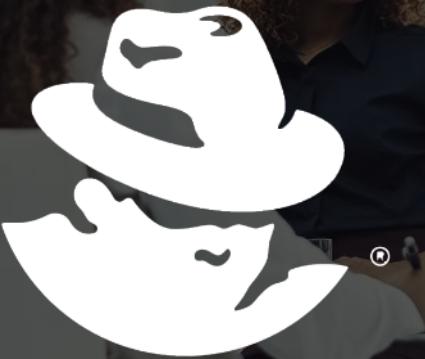
New

Windows Virtual Desktop

Best virtualized Windows and Office,
delivered on Azure

Windows 10 multi-user support
Optimized for Office 365
Deploy and scale in minutes

Azure ❤️ Linux



redhat.®





redhat.

OpenShift on Azure and Azure Stack
RHEL + Kubernetes hybrid capabilities
Joint development and support

Azure Security + Management

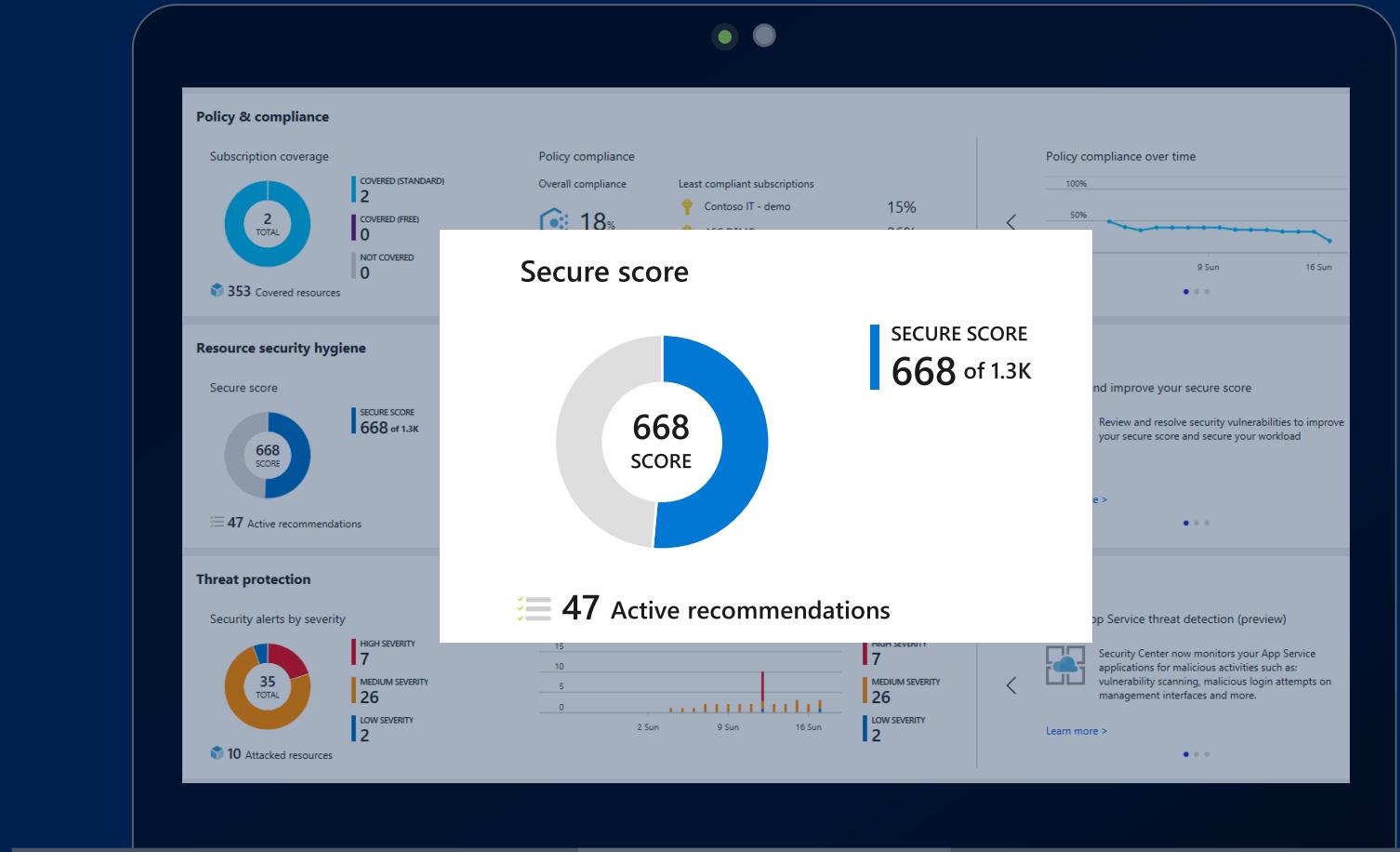
New capabilities

Azure Security Center

Built in Secure Score

Network maps

Threat protection enhancements



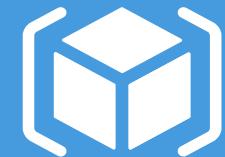
Announcing

Azure Blueprints

Define user access, policies
and resources

Rapidly create new environments
with pre-defined requirements

Accelerate development with control



Resources



Roles



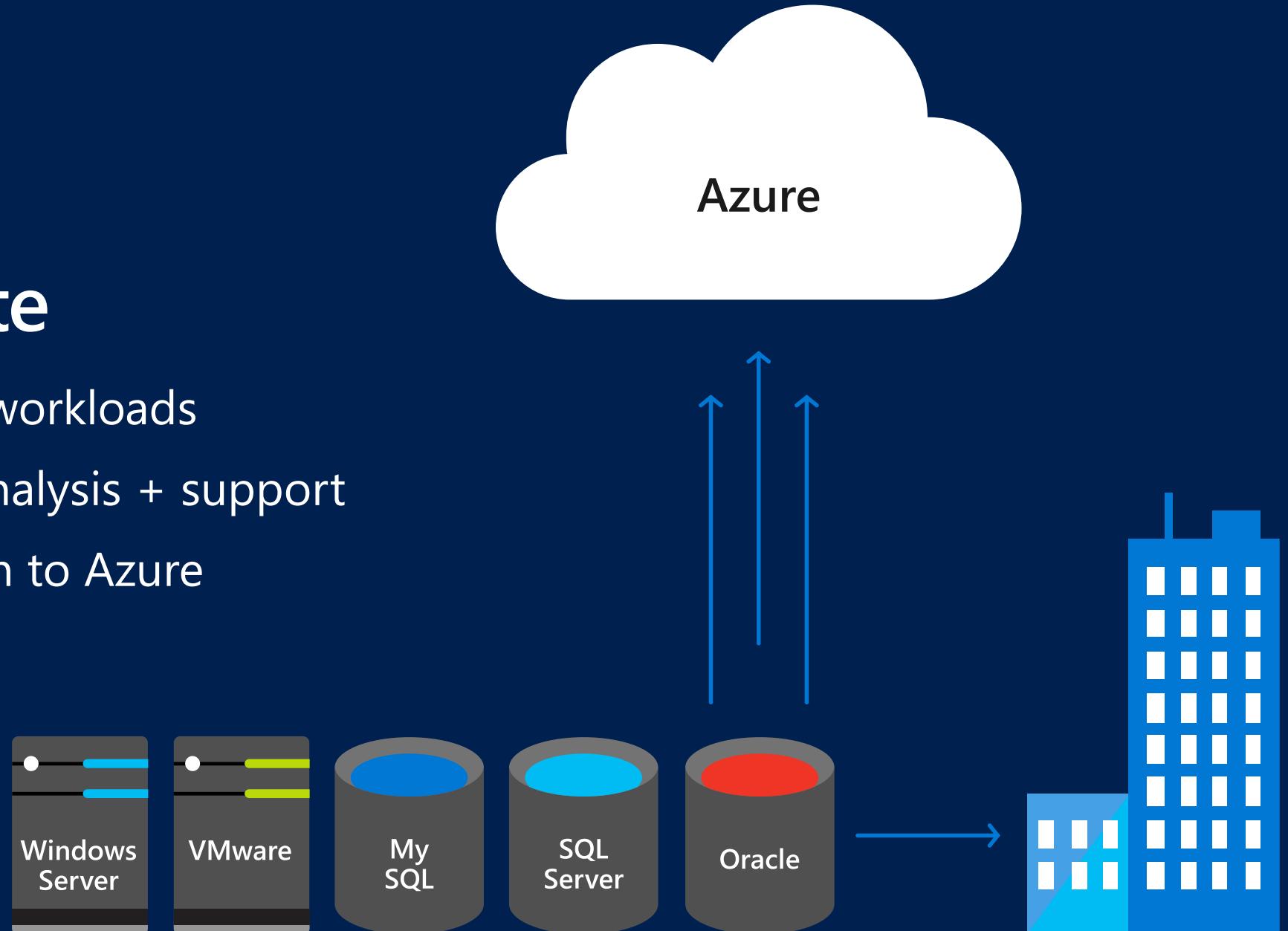
Policies

Azure Migrate

Assess on-premises workloads

Built-in hypervisor analysis + support

Automated migration to Azure



Introducing

Microsoft Learn

Interactive step-by step tutorials

Hands-on learning & coding environments

Knowledge checks to validate learning &
earn achievements



 [Microsoft.com/Learn](https://www.microsoft.com/learn)

Azure



Hybrid Infrastructure

App Modernization

Data + AI

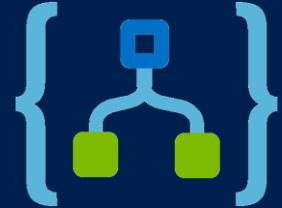
Internet of Things



App Service



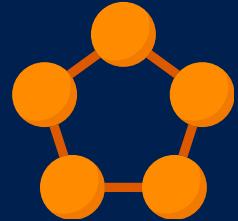
Functions



Logic Apps



Kubernetes
Service (AKS)



Service Fabric

Serverless based architecture

Azure DevOps

End-to-end DevOps services

Azure DevOps



Azure Boards

Kanban Boards, Backlogs,
Dashboards + Reporting



Azure Pipelines

CI/CD platform, FREE for
open source projects



Azure Test Plans

Manual and Exploratory
Testing Tools



Azure Artifacts

Package Management for
Maven, npm, and NuGet



Azure Lab Services

Self-service Dev/Test
Environments



Azure Repos

Unlimited, Cloud-Hosted
Private Git Repos

Azure

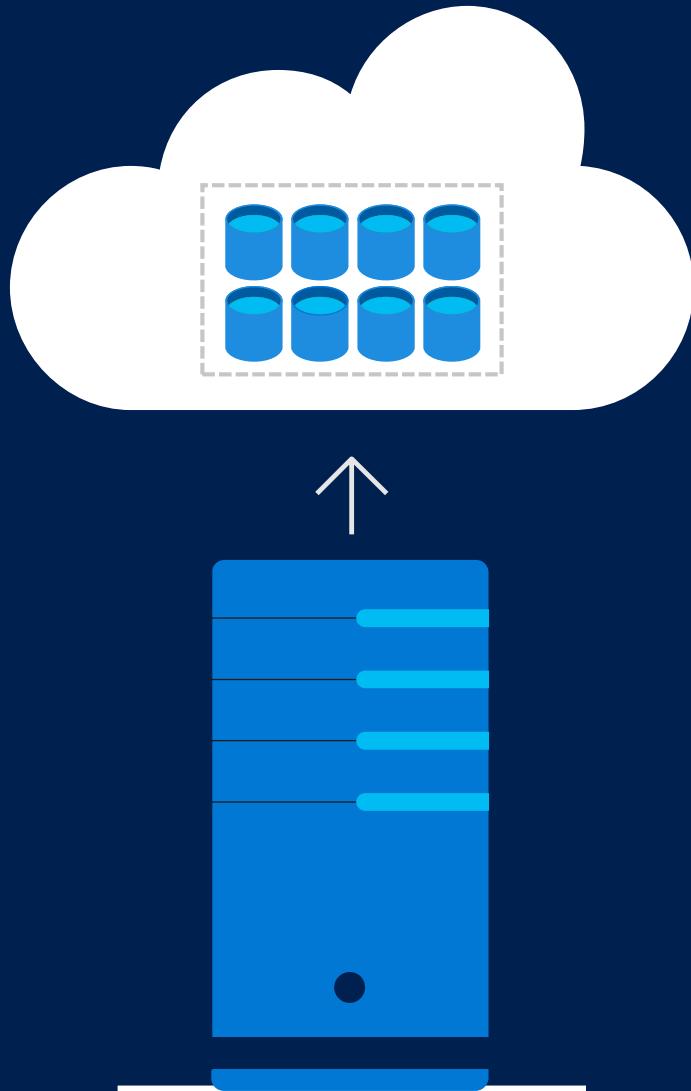


Hybrid Infrastructure

App Modernization

Data + AI

Internet of Things



Now GA

Azure SQL Database Managed Instance

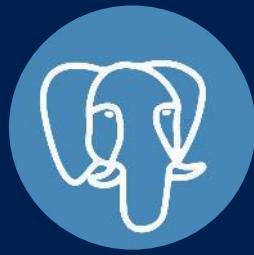
No app changes

Compatible with full SQL Server feature-set

Delivers SQL Server as a Service with
dramatically lower TCO



SQL DB



PostgreSQL



MySQL



Redis Cache



Cosmos DB

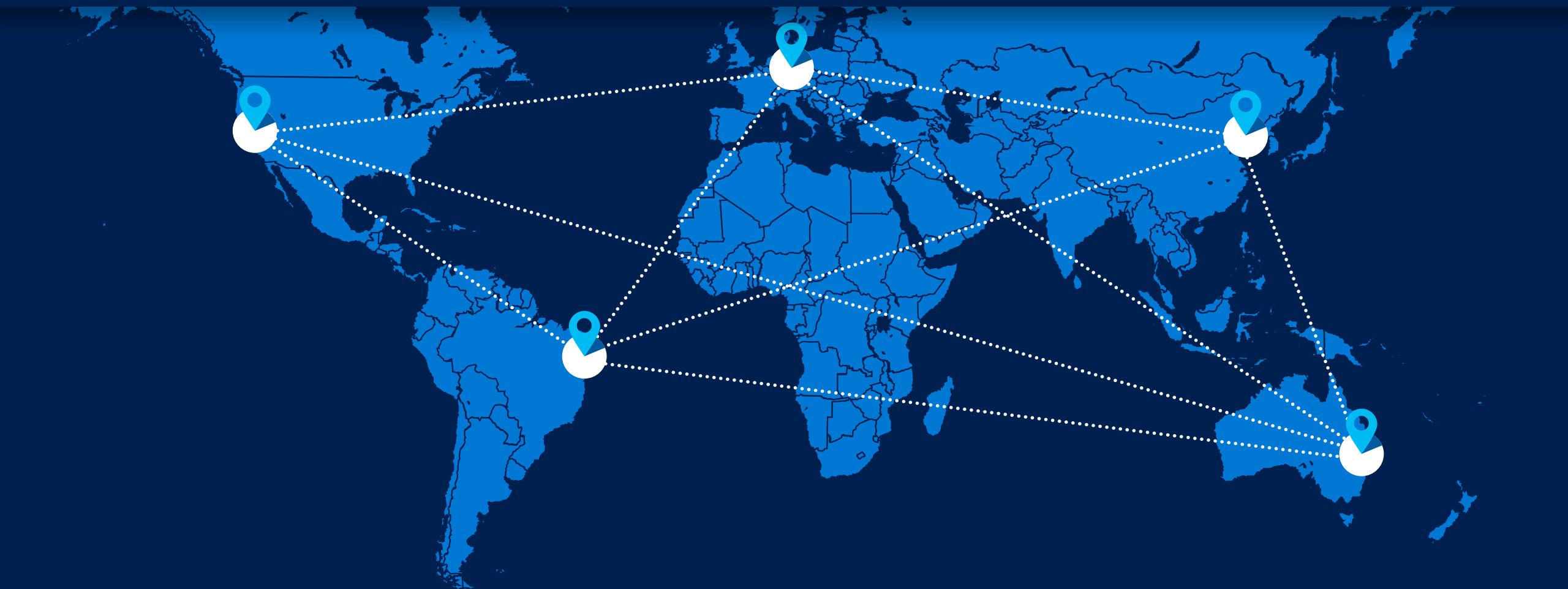
Azure Operational Data Services

Azure Cosmos DB

The world's first globally distributed database service

Azure Cosmos DB

The world's first globally distributed database service



Azure Cosmos DB

Scale to any need

Gigabytes of data



Petabytes of data

Hundreds transactions/second



Millions of transactions/second



Azure Cosmos DB APIs



MongoDB

SQL

Table storage

Gremlin Graph

Spark

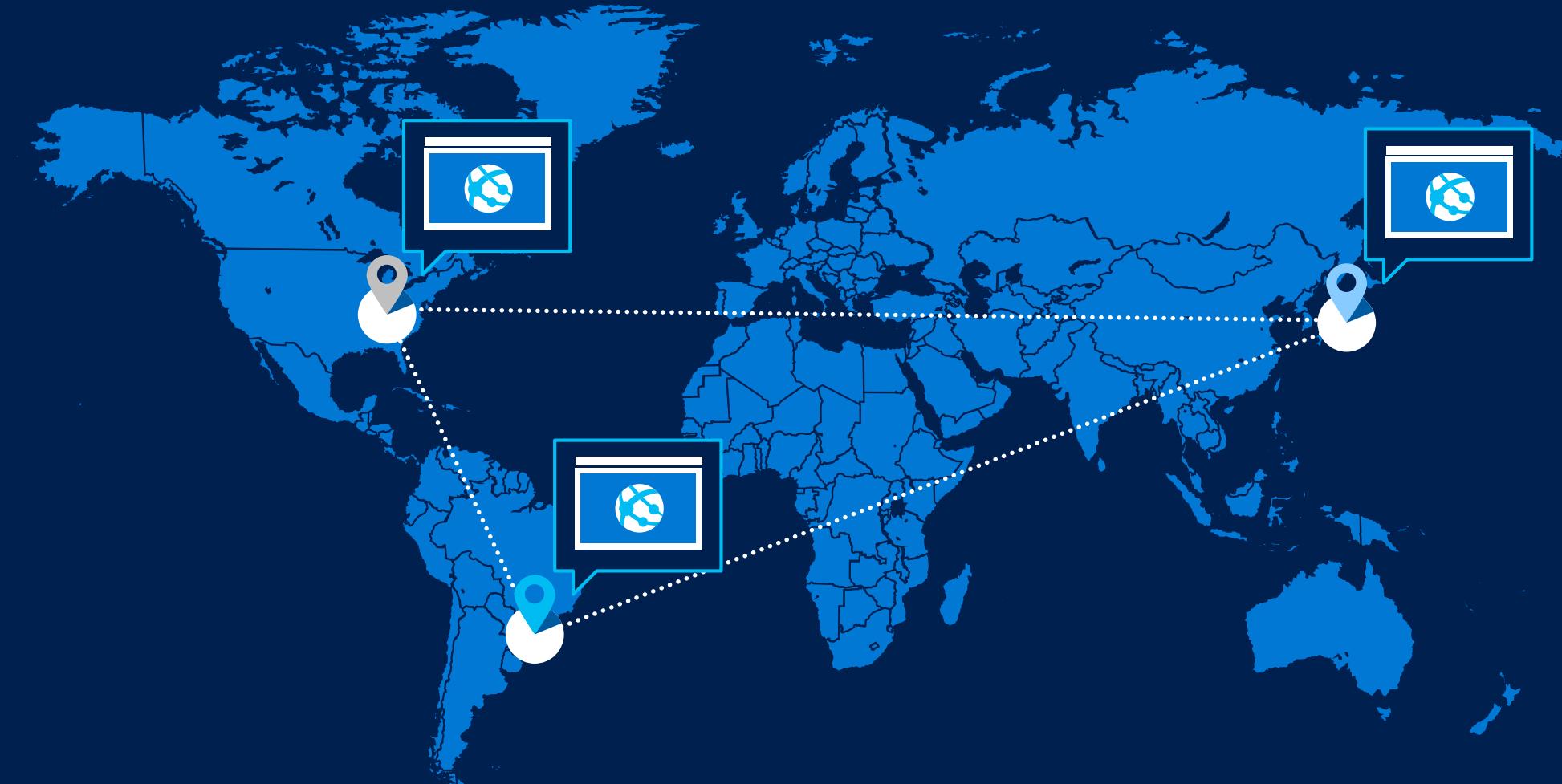
Cassandra

Now GA

Generally Available

Azure Cosmos DB

New multi-master write support



Announcing

Azure Cosmos DB Reserved Capacity

Up to 65% discount

Introducing

Azure Data Explorer

Simple yet powerful ad-hoc query language

Query 1 billion records in <1 sec

Scale from gigabytes to petabytes

Artificial Intelligence

Azure Cognitive Services

Powerful prebuilt AI models exposed as API services

Process images, video, speech, language and more

Simple REST APIs with .NET, Java, Python, Node SDKs



Vision



Speech



Language



Conversation



Bing Search



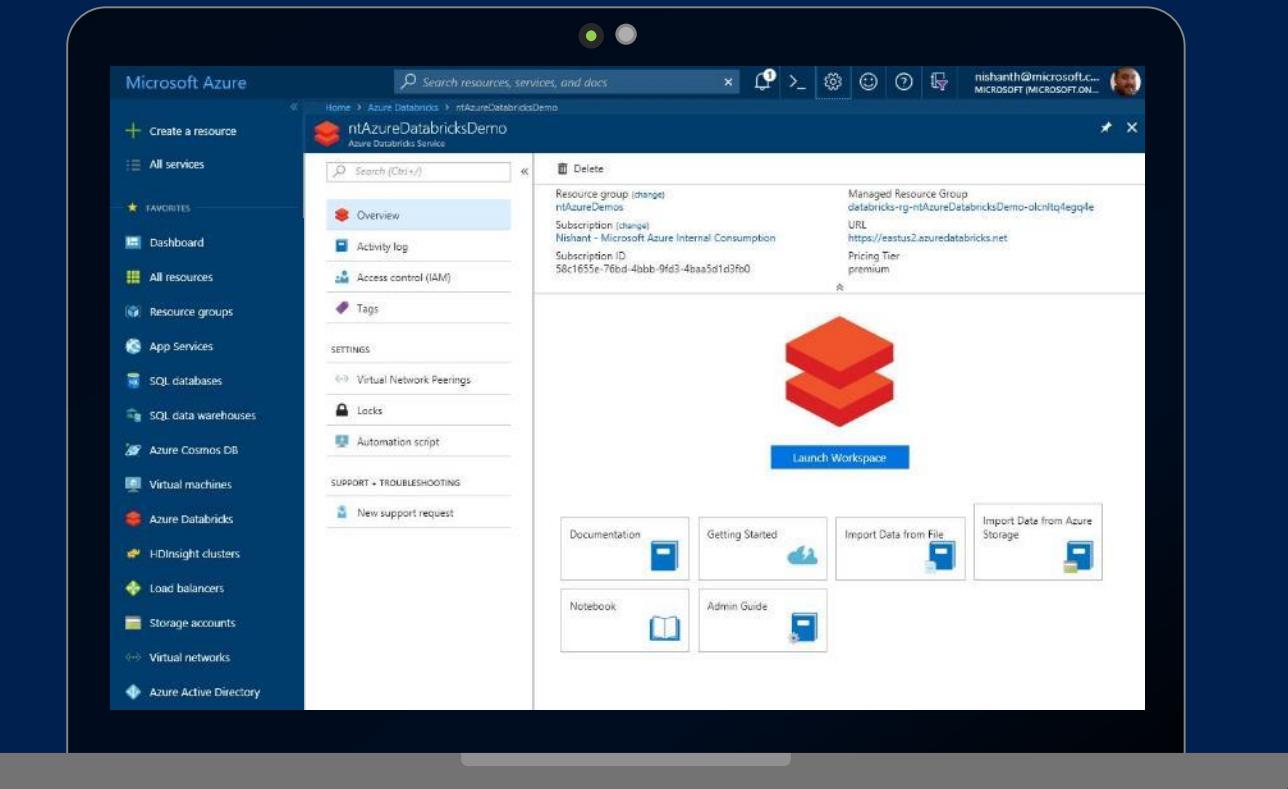
Knowledge

Building your own AI models

Transforming Data into Intelligence

Building your own AI models

Step 1: Prepare Data



Azure Databricks

Apache® Spark™ based analytics platform optimized for Azure

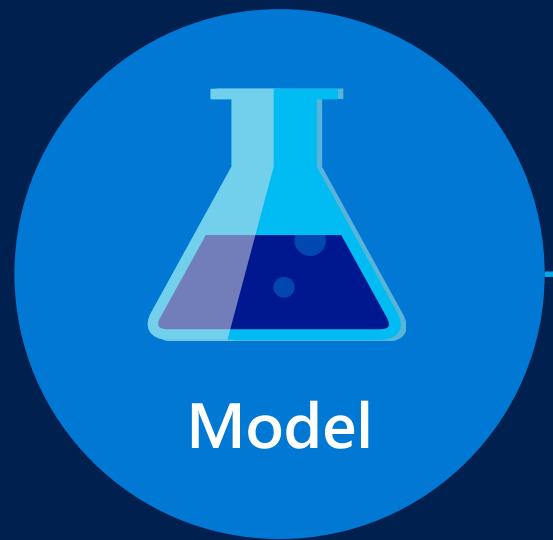
Quickly launch and scale Spark on demand

Rich interactive workspace and notebooks

Seamless integration with all Azure data services

Building your own AI models

Step 2: Build and Train



Building your own AI models

Step 2: Build and Train



Azure Machine Learning

Enhance productivity with automated machine learning

Identify suitable algorithms, features and pipelines faster

Broad frameworks and tools support

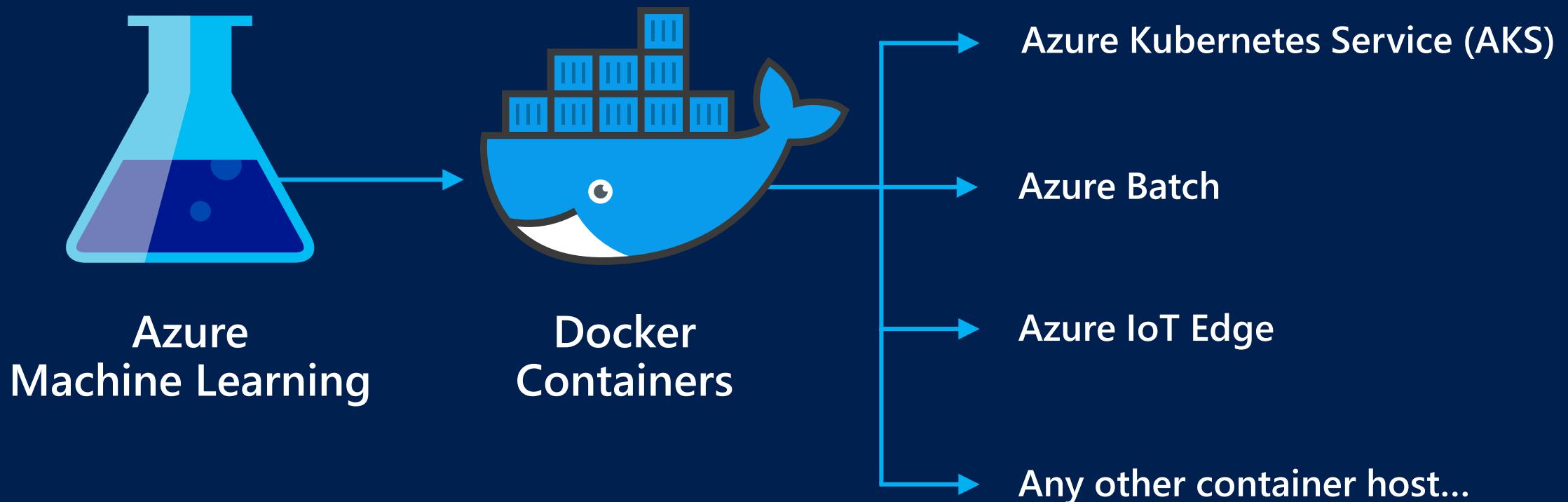
TensorFlow, Cognitive Toolkit, Caffe2, Keras, MxNET, PyTorch

Flexible model management

Deploy models in Azure, on premises and edge

Building your own AI models

Step 3: Deploy



Azure



Hybrid Infrastructure

App Modernization

Data + AI

Internet of Things

>20 Billion connected
devices by 2020



1000's of Azure IoT certified devices from hundreds of partners today

Azure IoT



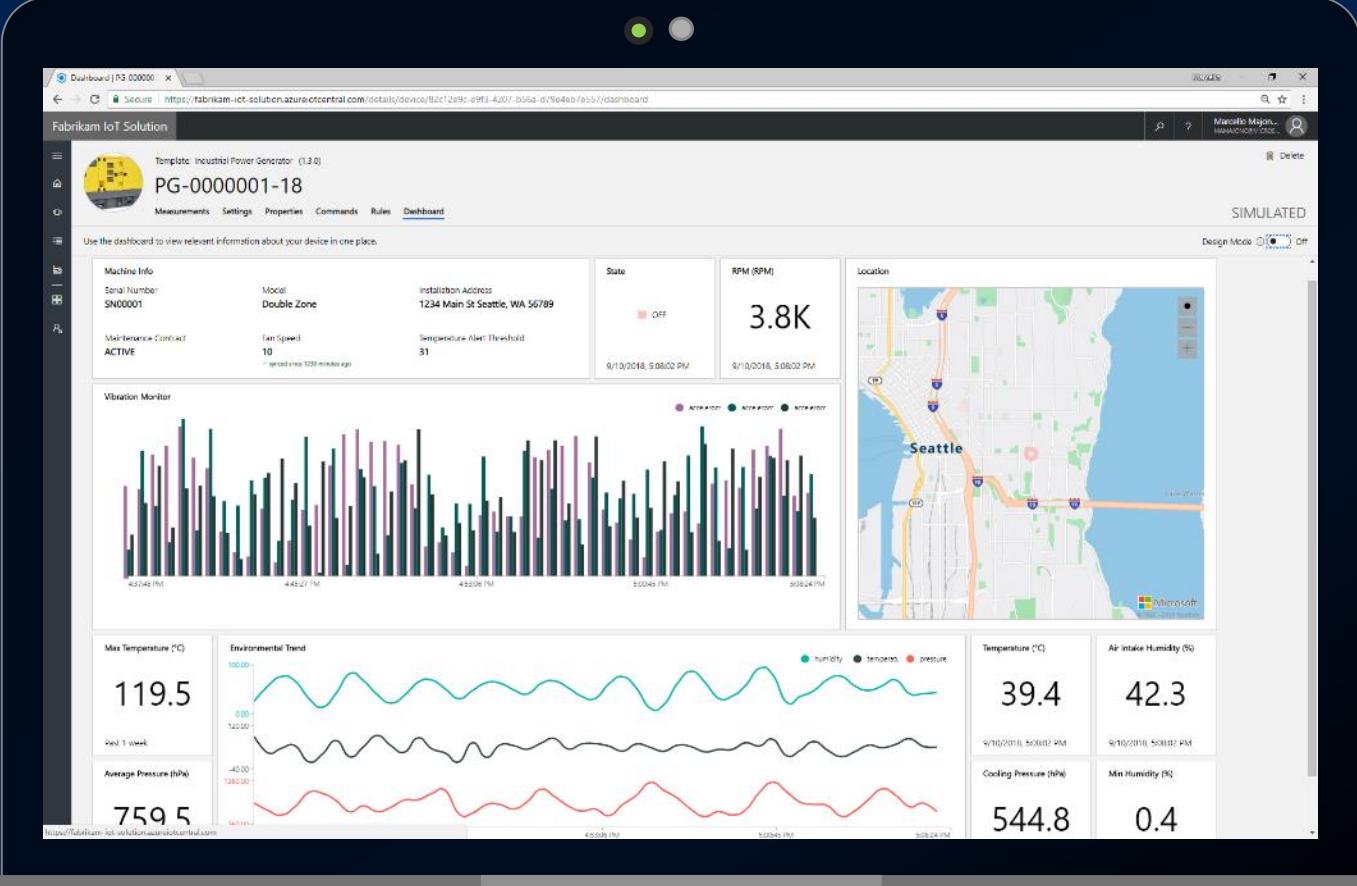
Now GA

Azure IoT Central

Device and security management

Monitoring rules and triggered actions

Scalable and extensible



Azure IoT







Digital Twins

Announcing

Azure Digital Twins

Virtually represent the physical world across people, places and devices

Automate endpoint actions based on incoming telemetry

Predefined templates attuned to industries

Announcing

Azure Sphere

Azure Sphere services are in
public preview

Dev kits are broadly available

Azure

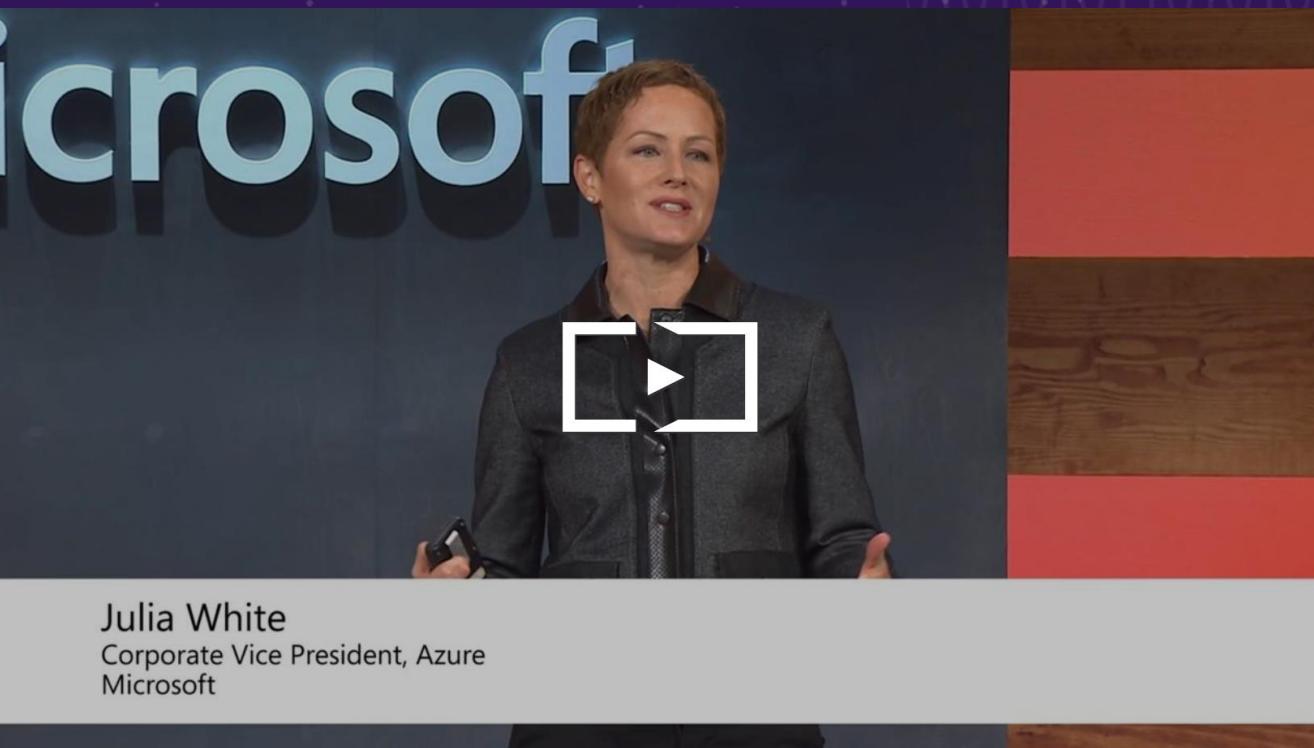
Hybrid Infrastructure

App Modernization

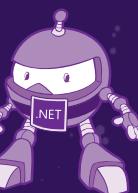
Data + AI

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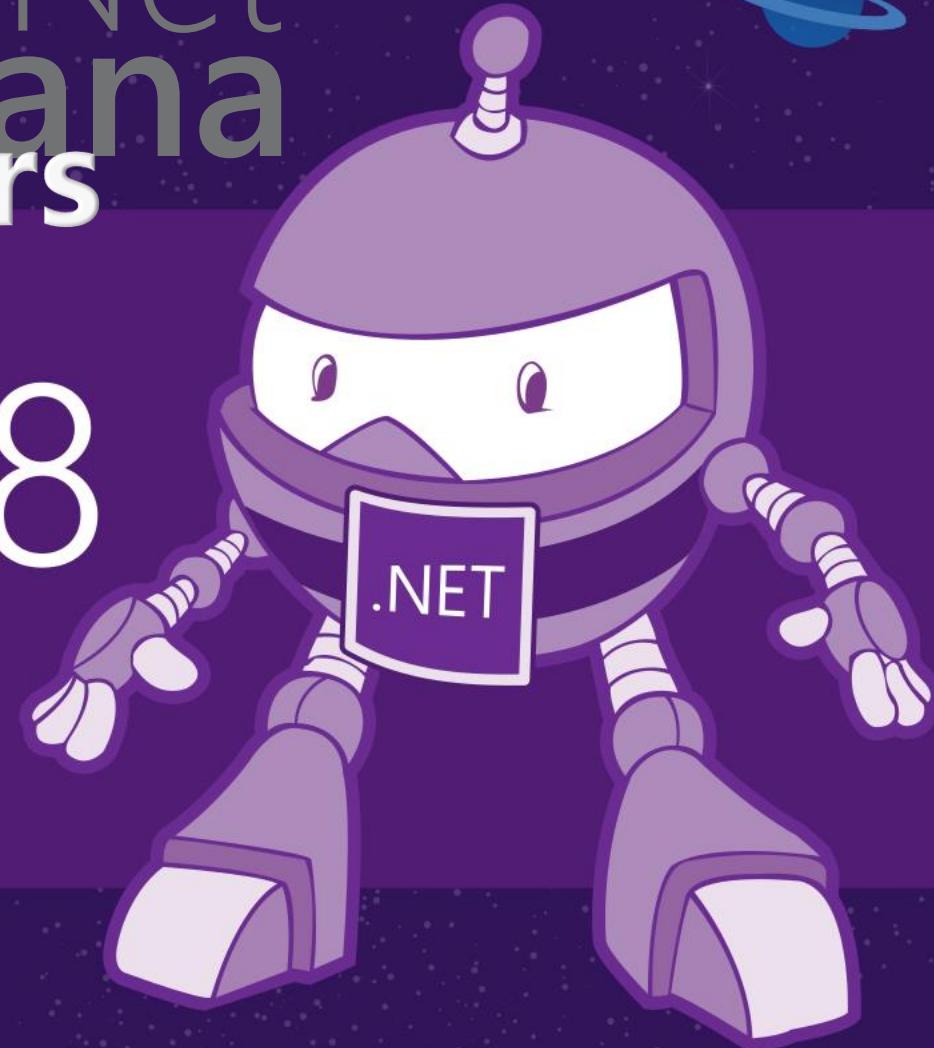
<https://aka.ms/AA2xrla>



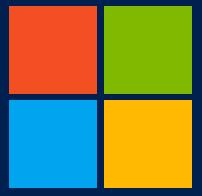


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Microsoft Azure