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Azure Release-Feuerwerk für Entwickler und IT Pros

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#ReBuildDE

Agenda

- Microsoft Bot Framework
- GA: Azure Virtual Machine Scale Sets
- Azure Dev/Test Lab preview
- Incremental Release: Azure Stack Technical Preview 1
- Visual Studio Azure Tools und SDK 2.9
- Preview: Storage Service Encryption for Data at Rest
- Azure Functions
- Azure Storage: Ankündigungen im Überblick
- Azure Service Fabric Preview
- Preview: Template Export für Azure Resource Manager

Microsoft Bot Framework

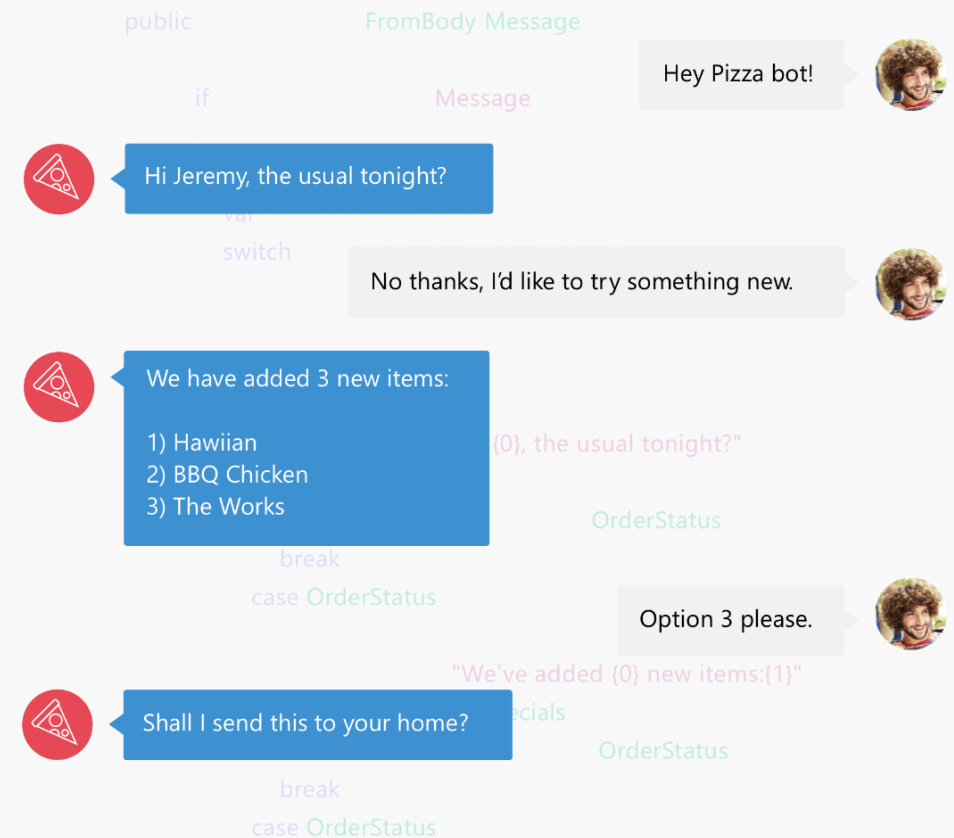
Session mit Daniel Heinze heute um 13:00

Bot Framework

Bot Framework is a Microsoft-operated service and an SDK.

Bot Framework is one of many tools Microsoft offers for building a complete bot.

Others include: LUIS, Cognitive Services, Speech APIs, Azure, more



Top Sessions at //build for Bot Framework

B821: Building a Conversational Bot: From 0 to 60

Dan Driscoll, Mike Hall

T611: Building a Skype Bot

Krishnan Ananthanarayanan, Nick Cordrey

B855: Build Smarter and More Engaging Experiences with Microsoft's Intelligent Services

Ryan Galgon, Mike Hall, John Psaroudakis

GA: Azure Virtual Machine Scale Sets

(allgemein verfügbar)

Top features

- Einfache Verwaltung von Scalesets und Load Balancern; keine Zusatzkosten
 - Portal: automatische Erstellung von NAT-Regeln für RDP und SSH
 - Einfache Skalierung zwischen 0 und 100 Instanzen (via REST, SDK oder Konsole)
- Mehrere Scalesets in einem VNet möglich
- Auto-Skalierung
- VM Extensions
- Azure SDK aktualisiert für Scalesets
- Verfügbar in allen Regionen via Azure Resource Manager

Top Sessions at //build für Azure VM Scale Sets

[Building Apps in Azure Using Windows and Linux VMs](#)

Corey Sanders

[VM Scale Sets & Open Source PaaS on Azure: Deep Dive](#)

Guy Bowerman, Kundana Palagiri

Azure Dev/Test Lab

Demo Azure Dev/Test Lab

Azure Dev/Test Lab facts

- Schnelle Bereitstellung von Dev-/Testumgebungen
- Deckelung von Kosten mit Kontingenten und Richtlinien
- Automatisches Herunterfahren von VMs
- VMs mit Vorlagen schneller erstellen
- Windows und Linux Umgebungen
- Kostenloser Service, Bezahlen nur für die Ressourcen

Incremental Release: Azure Stack Technical Preview 1

Top features

- Schnellere Bereitstellung von VMs
- Verbesserte Leistung für VM-Aktionen wie Starten, Stoppen und Löschen
- Verbesserung der Stabilität und Zuverlässigkeit des Portal
- Aktualisierte Extensions für Desired State Configuration und Docker
- Achtung: kein In-Place-Upgrade möglich

Top Sessions at //build für Azure Stack

[Designing Hybrid Applications that Span Azure and Azure Stack](#)

Igor Sedukhin

[Jeffrey Snover on Azure Stack, Powershell, and Nano Server](#)

Seth Juarez, Jeffrey Snover

Visual Studio Azure Tools und SDK 2.9

Top features

- Visual Studio “15” preview
- Performance Diagnostics with Service Profiler (preview)
- KeyVault support for ARM templates
- Secondary App Service Creation
- Tools for Docker preview
- Microsoft Service Fabric Tools for Visual Studio
- Azure Data Lake Tools for Visual Studio
- Azure Resource Manager Tools for Visual Studio Code

Top Sessions at //build for Azure SDK

P432: Azure Tools for Visual Studio (Azure SDK for .NET 2.9)

Paul Yuknewicz

Preview: Storage Service Encryption for Data at Rest

Top features

- Transparente Verschlüsselung von Daten in Azure Speicherkonten für Blob
 - Unterstützt Block Blobs, Append Blobs und Page Blobs
 - Unterstützt LRS, ZRS, GRS und RA-GRS
 - Unterstützt Standard und Premium
 - Keine Zusatzkosten
- 256-bit AES Verschlüsselung
- Nur für neu erstellte Speicherkonten via ARM

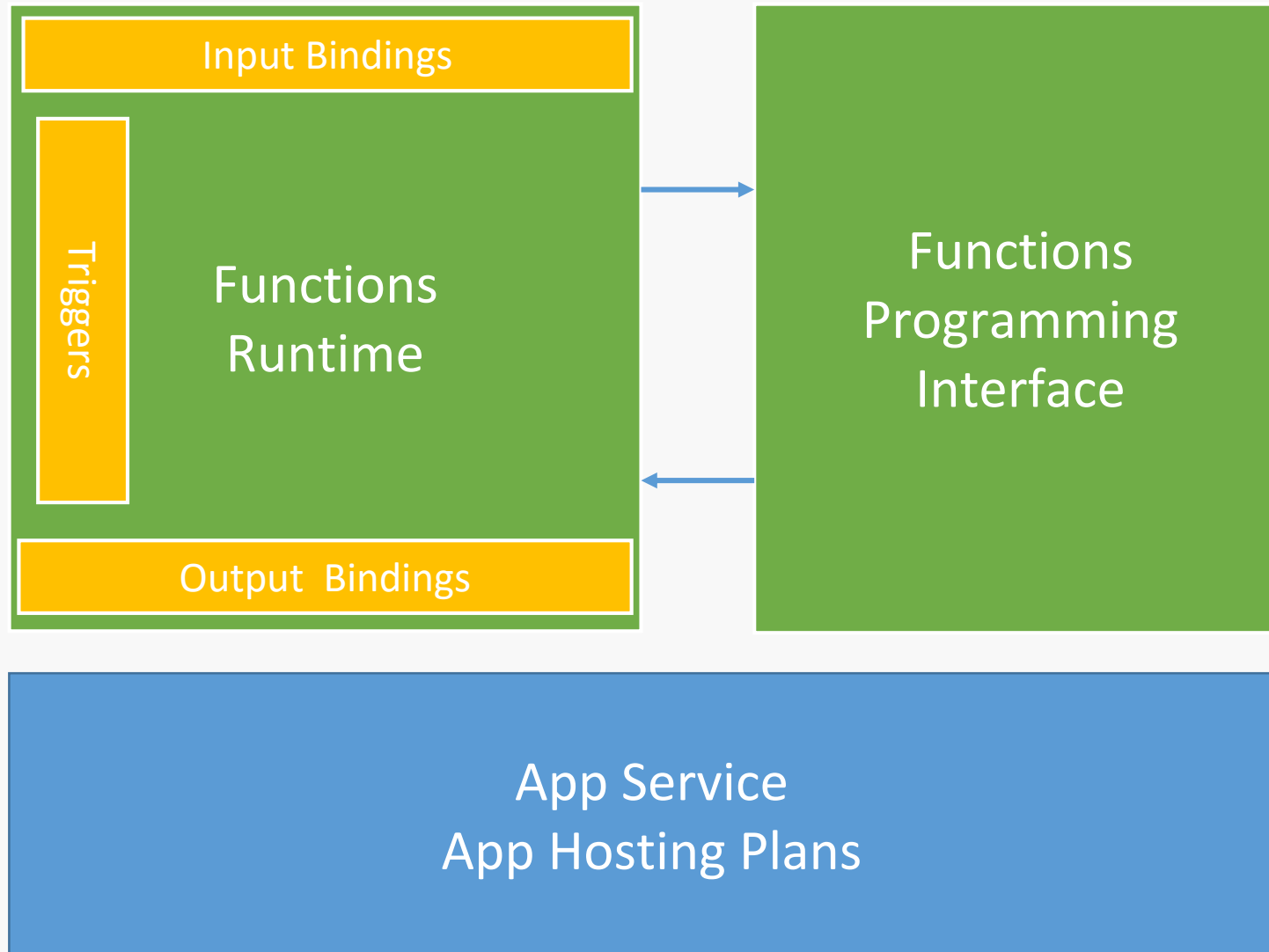
Top Sessions at //build for Azure SDK

[Azure Tools for Visual Studio \(Azure SDK for .NET 2.9\)](#)

Paul Yuknewicz

Demo: Azure Functions

Azure Functions Architecture



Supported Languages

- 1st class support
 - Node/JavaScript
 - C#
- Experimental support
 - F#
 - Python
 - PHP
 - Batch
 - Bash
 - PowerShell

Top Sessions at //build for Bot Framework

B858: Introducing Azure Functions

Chris Anderson

T692: Azure Functions Under the Hood

Matthew Henderson, Yochay Kiriaty

Azure Storage: Ankündigungen im Überblick

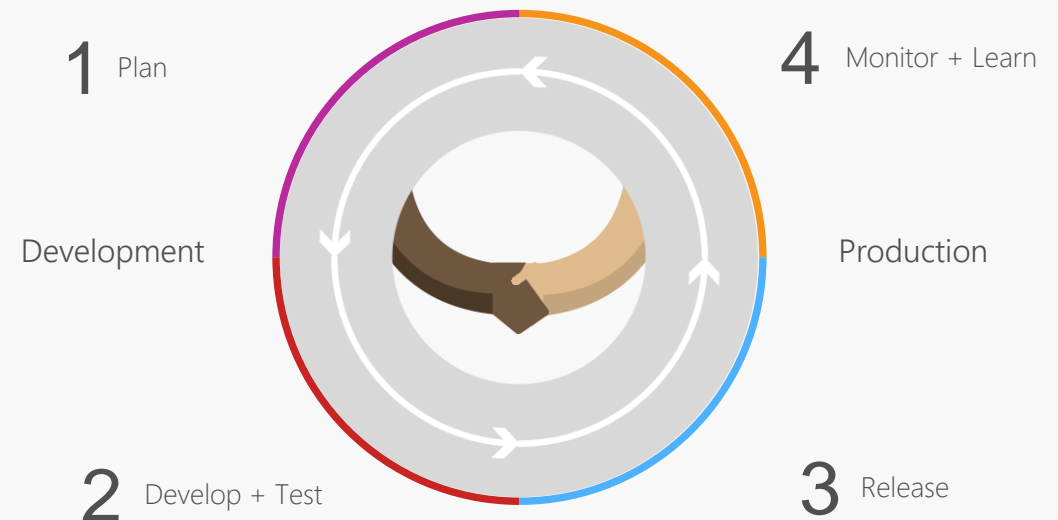
Top features

- Storage Service Encryption
- Anpassung der API GetPageRanges:
Kopieren von inkrementellen Snapshots
- Azure Import/Export: neues Limit: 8 TB
- Azure Backup unterstützt Premium Storage
- GA: Java Client-Side Encryption
 - Blob, Table und Queues
- Preview Update: Storage node.js
- Preview Update: Azure Storage Explorer

Azure Service Fabric

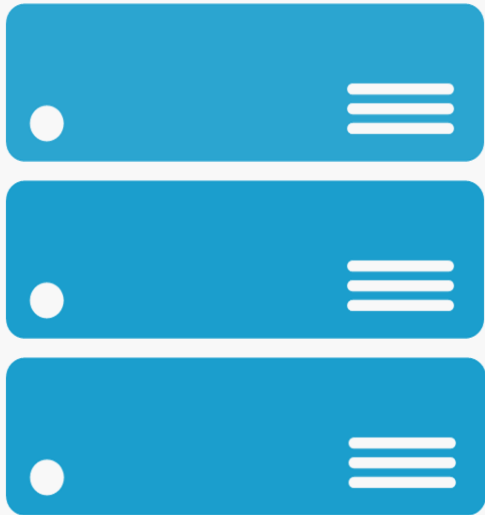
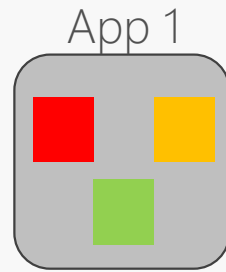
Why a microservices approach?

- Continually evolving applications
- Faster delivery of features and capabilities to respond to customer expectations
- Build and operate a service at scale



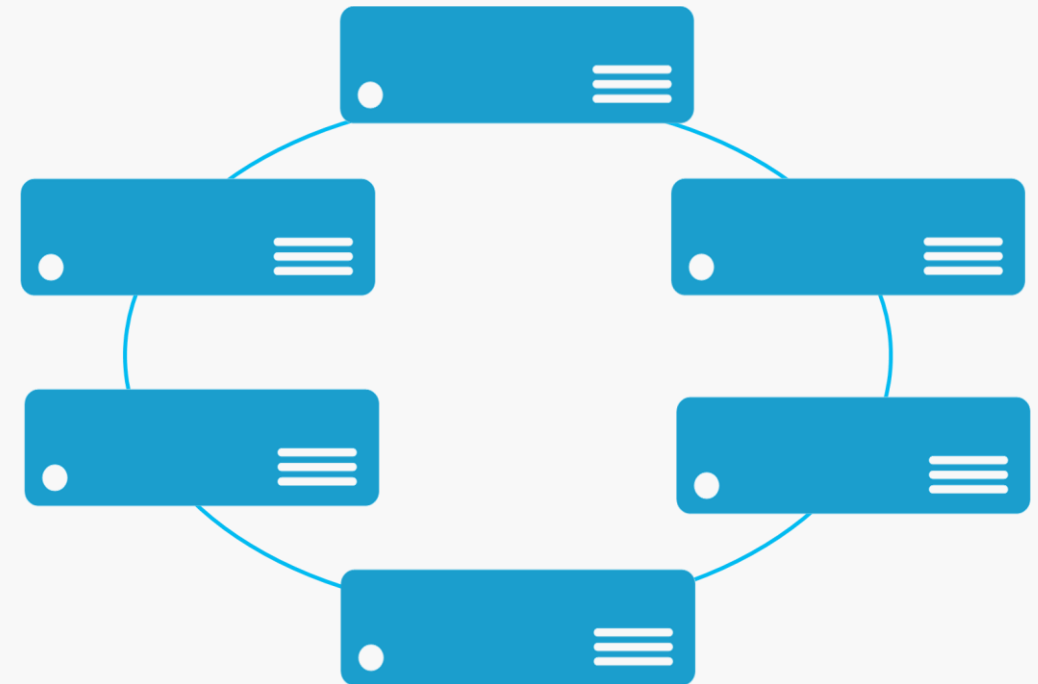
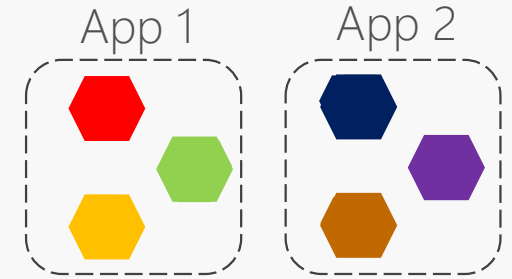
Monolithic application approach

- A monolith app contains domain specific functionality and is normally divided by functional layers such as web, business and data
- Scales by cloning the app on multiple servers/VMs/Containers



Microservices application approach

- A microservice application separates functionality into separate smaller services.
- Scales out by deploying each service independently creating instances of these services across servers/VMs/containers



Microservices



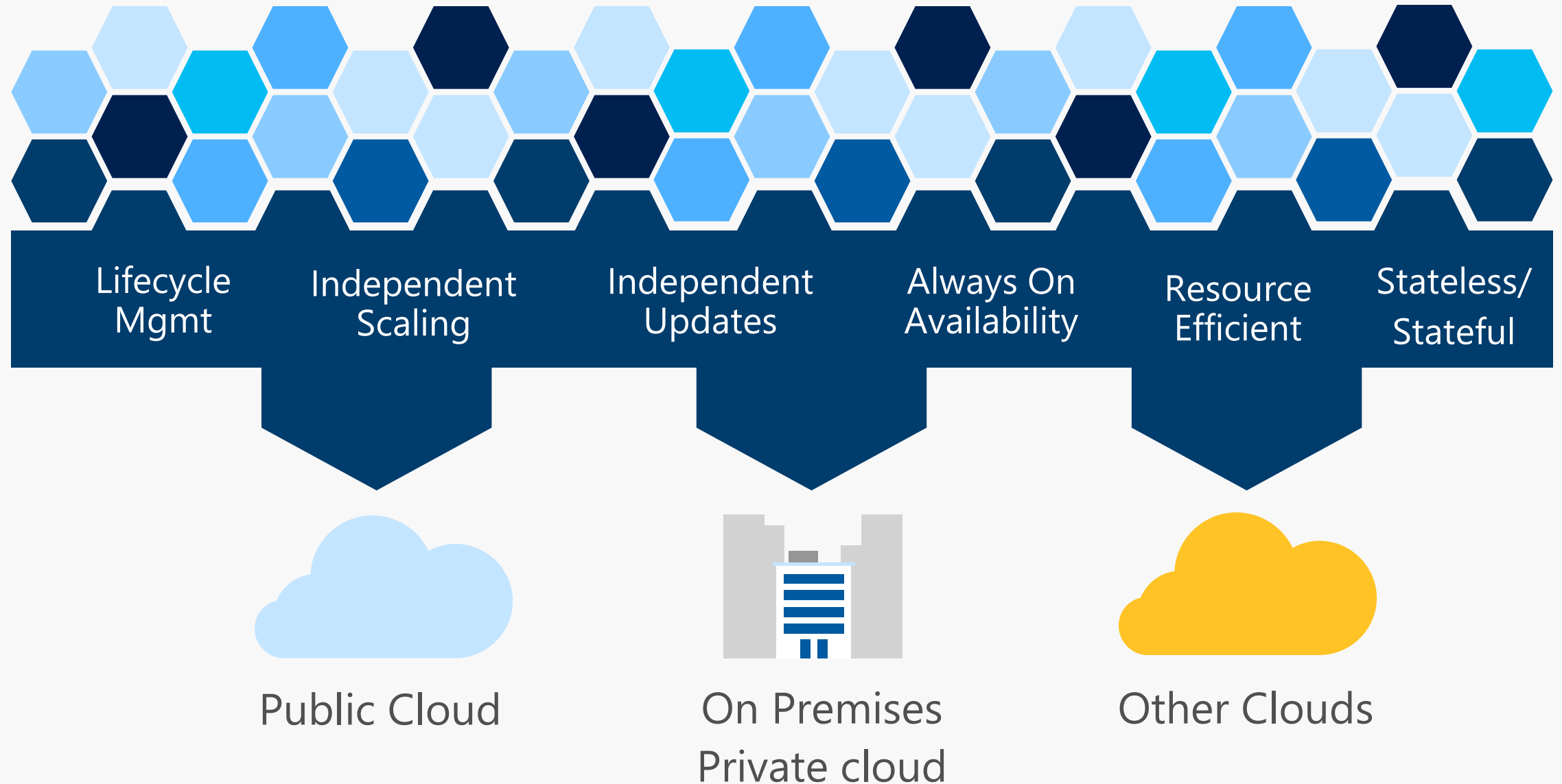
Build Applications with many Programming Frameworks and Languages

The diagram illustrates a three-layer architecture for microservices. The top layer is a grey rectangle representing application development. The middle layer is a dark blue rectangle representing the platform, with three downward-pointing chevrons connecting it to the bottom layer. The bottom layer is a light blue rectangle representing deployment and management. The text is white on the grey and dark blue backgrounds, and white on the light blue background.

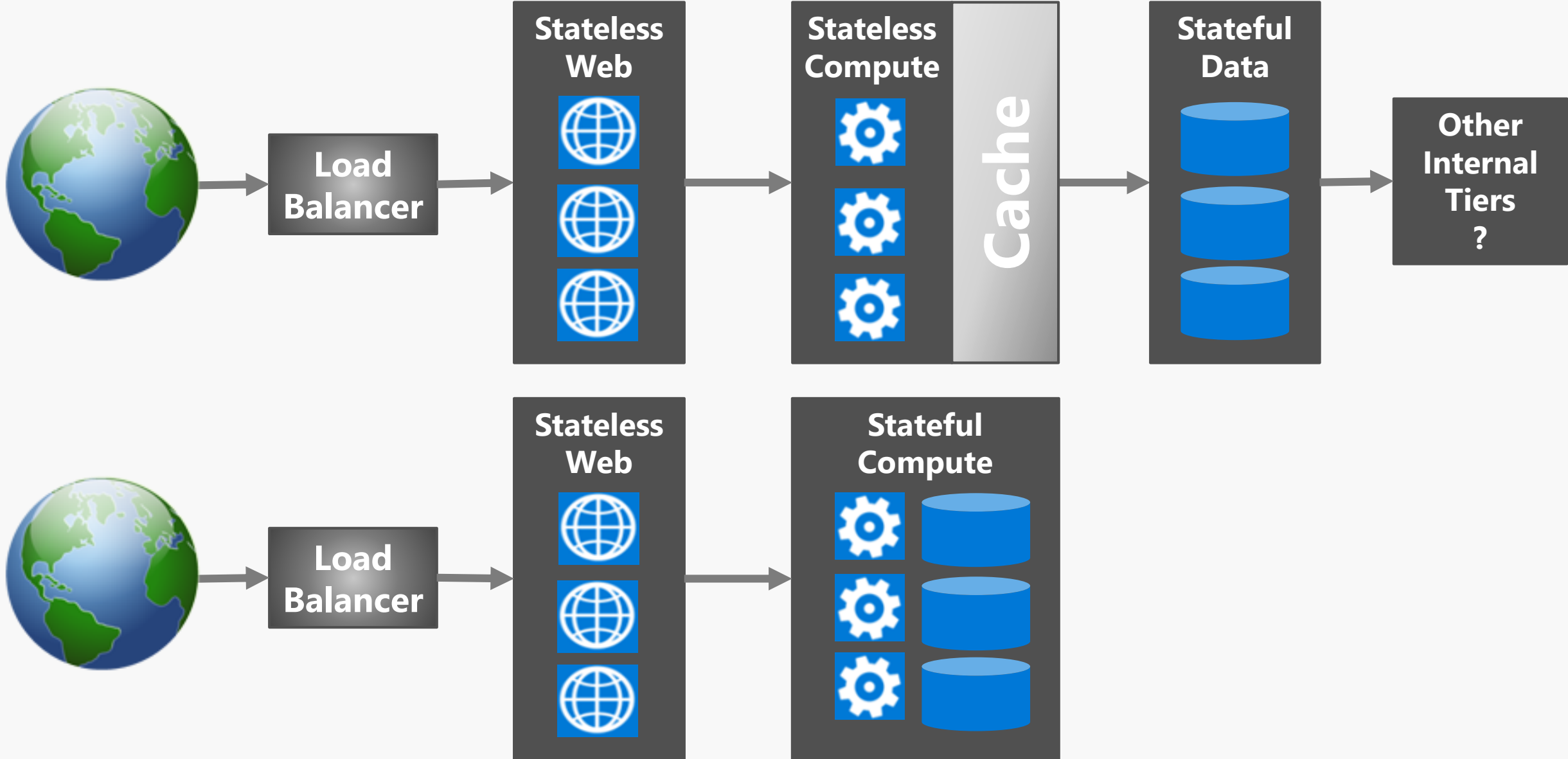
Microservices Platform

Deploy and Manage Applications to many Environments

Azure Service Fabric



State Architectures: Traditional vs Service Fabric



Top Sessions at //build about Service Fabric

B874: Azure Service Fabric for Developers

Ben Adams, Mark Fussell, Jeffrey Richter

T693: Building Microservices for Service Fabric

Matthew Snider

Preview: Template Export für Azure Resource Manager

Top features

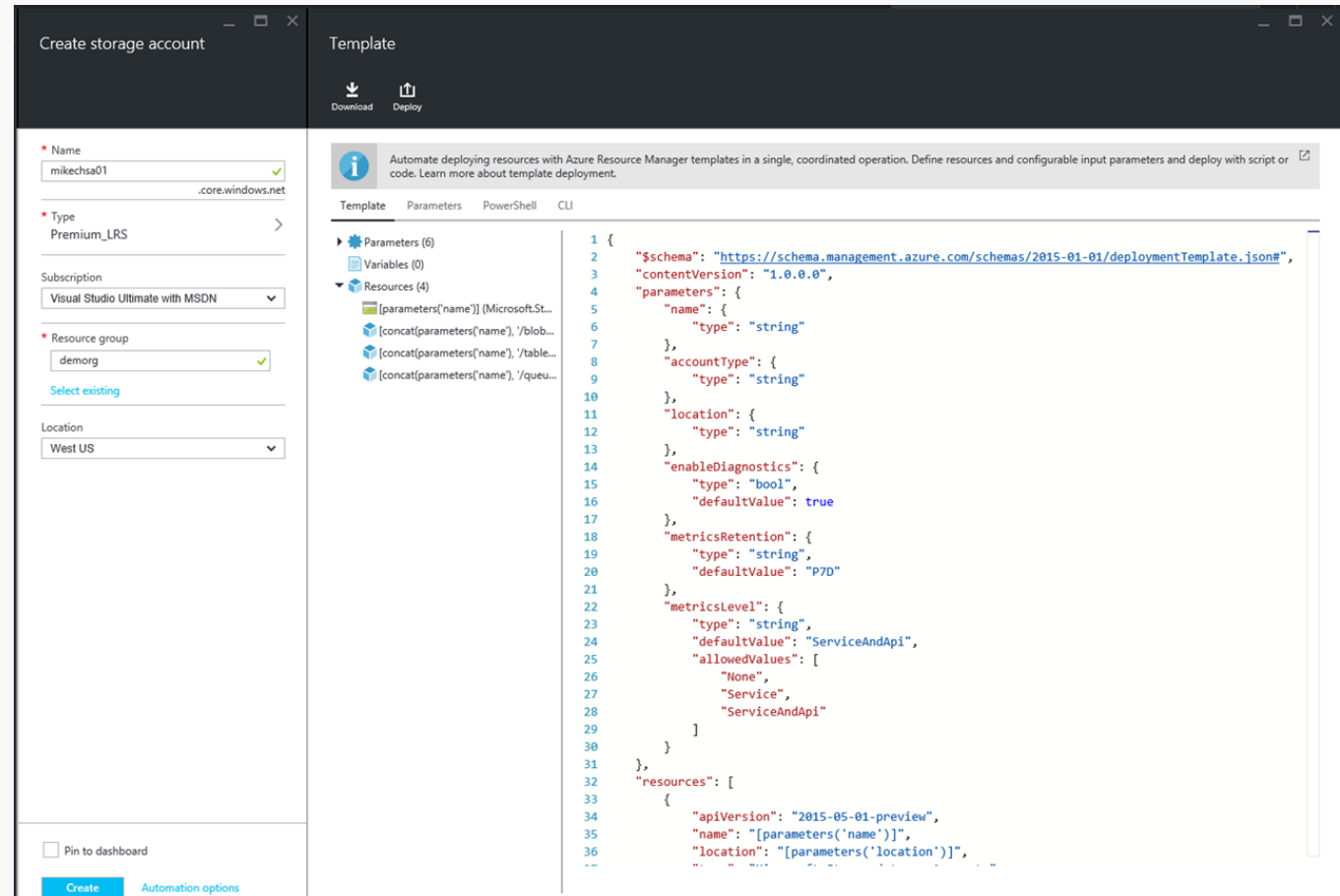
Export einer Ressourcengruppe als ARM Template

3 Exportoptionen

Aus einer existierenden Ressourcengruppe

Aus einer vergangenen Bereitstellung

Automation Option in Assistenten im Verwaltungsportal



Call to Action

Microsoft Bot Framework

<https://dev.botframework.com/>

Dev/Test Lab preview

<https://azure.microsoft.com/de-de/services/devtest-lab/>

VS Azure Tools und SDK 2.9

https://www.microsoft.com/germany/techwiese/news/show.aspx?id=msdn_de_63187

<https://azure.microsoft.com/de-de/blog/announcing-visual-studio-azure-tools-and-sdk-2-9/>

Azure Functions Quickstart

<http://functions.azure.com>

Service Fabric

<http://aka.ms/ServiceFabricSDK>

Azure Blog

<https://azure.microsoft.com/en-us/blog/>

Re-visit Build on [Channel 9](#)

Continue your education at [Microsoft Virtual Academy](#) online

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Thank you!