

Azure Meetups



www.aka.ms/azure-meetups



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- Focus on Cloud Computing / Web Development
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Microsoft since 2010

- Worked with Microsoft Azure in different roles (Product / Audience Marketing, Technical Evangelism)
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Microsoft Azure















Management











Applications













App Frameworks













Databases & Middleware













Infrastructure

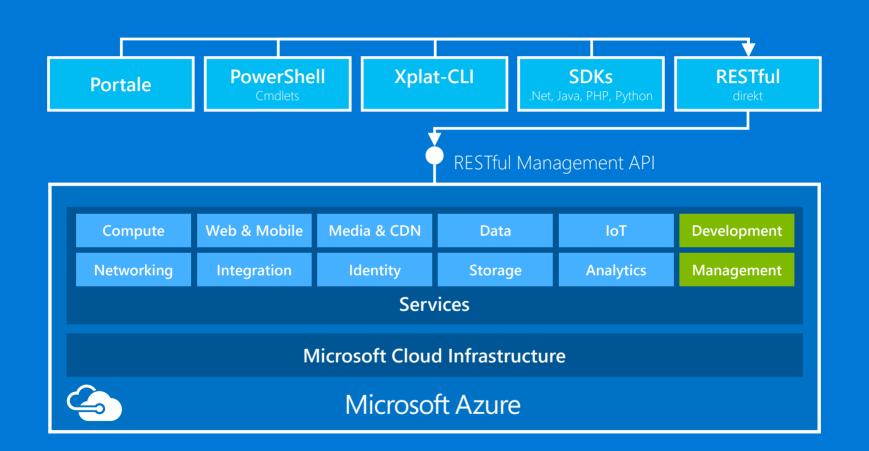












Platform Services









Infrastructure Services







BizTalk Services

Service Bus













Networking







Datacenter Infrastructure

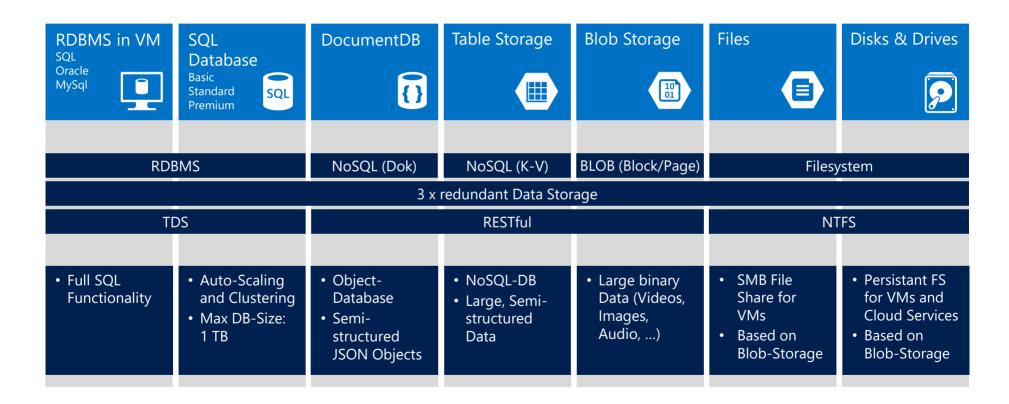


Storage in Microsoft Azure





Storage in the Cloud





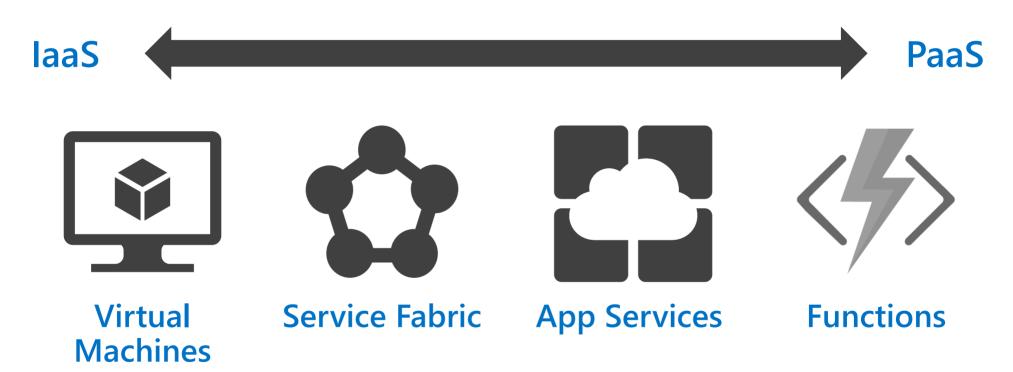


Compute in the Cloud





Azure Services for your applications



Virtual Machines

Windows, Linux, ...





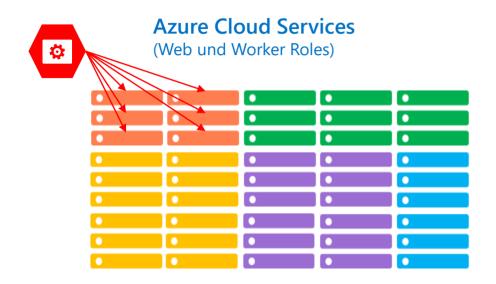
Service Fabric

A scalable Microservice Platform

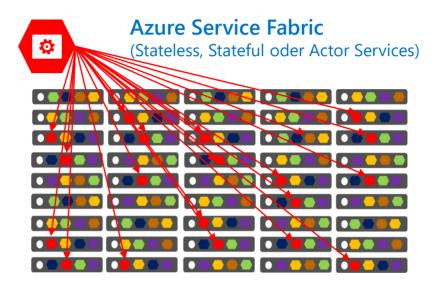




Cloud Services vs. Service Fabric



- One service per VM
- Slow updates and scaling



- Many micro services per VM
- High density
- Fast deployment of updates
- Scale micro services fast



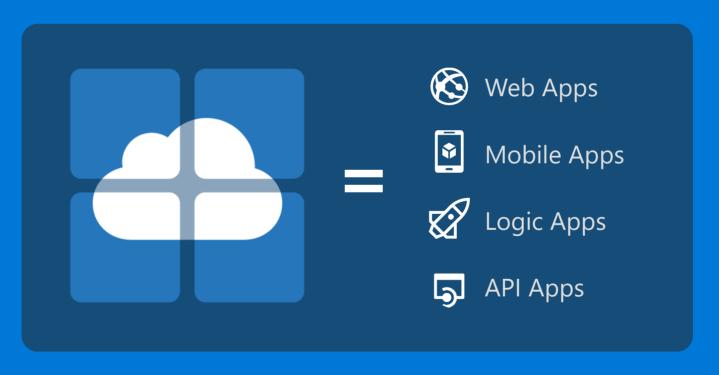


Azure App Services





Azure App Service Build and scale great cloud apps



API Apps

Create, consume and host APIs more easily





Consuming API Apps

API Apps expose HTTP services

Metadata is exposed using Swagger / OpenAPI metadata

- JSON file
- Widely supported

Client applications





Demo: Azure API Apps

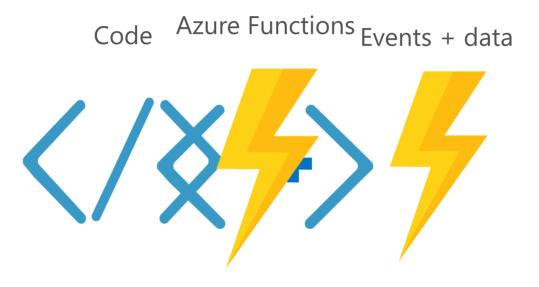
Azure Functions

Going serverless





What is Azure Functions?







Supported Languages

1st class support

- Node / JavaScript
- C#

Experimental support

- F#
- Python
- PHP
- Batch
- Bash
- PowerShell





Supported bindings (5/2016)

Туре	Service	Trigger	Input	Output
Schedule	Azure Functions	✓		
HTTP (REST or WebHook)	Azure Functions	✓		✓
Blob Storage	Azure Storage	✓	✓	√
Queues	Azure Storage	✓		✓
Tables	Azure Storage		✓	√
Tables	Azure Mobile Apps Easy Tables		✓	✓
No-SQL DB	Azure DocumentDB		✓	✓
Streams	Azure Event Hubs	✓		✓
Push Notifications	Azure Notification Hubs			✓





Demo: Function Apps

Go serverless

Servers when you want them...





Servers when you want them...

serverless when you don't





Internal Microsoft IT Landscape

Simplification efforts reducing app portfolio at 5% per year

Servers. user PC's and mobile devices

Migration planned for 73 organizations

120K+ 1.3K+ 1.2M

Line of Business

applications

Devices hit the Microsoft network 150K

Presence in over

119 Countries

IT supported Site locations

513 80K+

Users on CRM Online over next 24 months

All new development + next gen apps in PaaS

170K Windows 8.1 managed devices

Migration pace of 3K users per month

40K active in over 700 external networks monthly

Online sites growing 4% On-Prem declining at 25% Sales team works 60% mobile

22% 40K

LOB apps using laaS or PaaS, hybrid cloud environment

Managed Windows 10 **Systems**

330K

Users on Office 365 Exchange

Employees participate on Yammer each month

97% SharePoint sites in the cloud

165K 90K 270K 7.9M Lync calls/month

Microsoft IT Cloud Environment

- 19,000 Azure virtual machines
 Software development, test, monitoring
- 600 Azure platform as a service (PaaS) apps
 Employee applications, e.g. learning platform, travel expenses
 Public Cloud
- More than 5,000 Azure SQL instances
 Data storage for apps, monitoring





What are we using Azure for?

- Employee self-service for IT tasks
- System and application monitoring
- Software development and test
- Infrastructure automation based on templates
- Mobile device and application management





Let's dive in: Demo as a Service (DaaS)

- 1. Employee self-service with Azure Active Directory
- 2. Software development & test machines with Azure DevTest Labs
- 3. Infrastructure automation with Azure Resource Manager templates
- 4. IoT monitoring with Operations Management Suite





Next Steps

Test

Test Microsoft Azure for free http://azure.microsoft.com/de-de/pricing/free-trial/

First Look

Test App Services without an Azure Account https://tryappservice.azure.com/

Learning

Dive in more deeply https://mva.microsoft.com/







