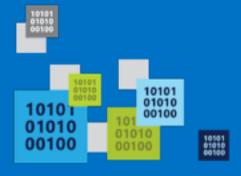
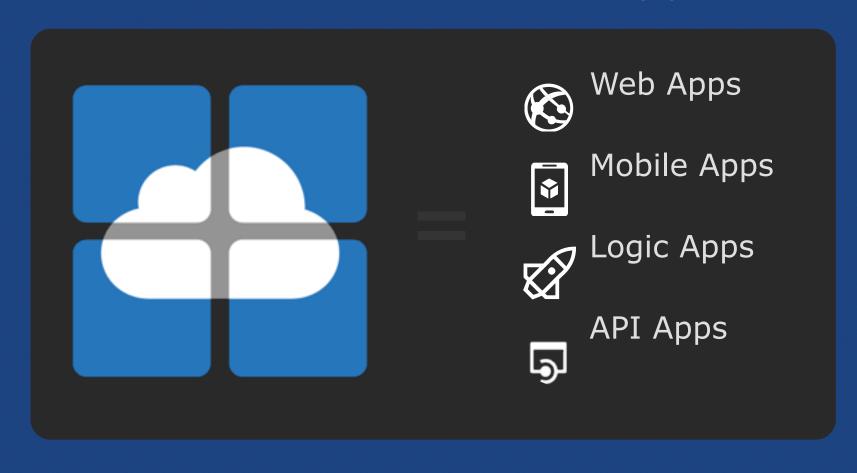
App Service Web Apps





Azure App Service Build and scale cloud apps





NET | Node.js | PHP | Python | Java



Microsoft Ature
Users
Aure Anserice

Oele/Ope,

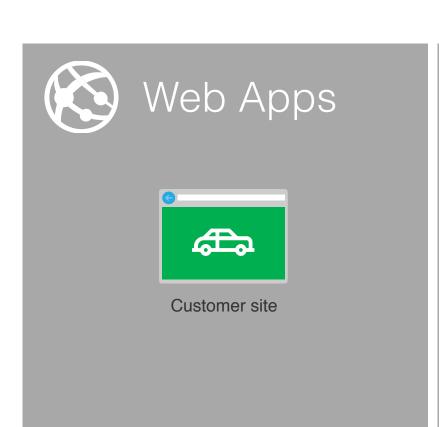
Benefits of App Services

- Automatic OS patching
- Enterprise-grade security
- High availability
 - Automated scale out/in
 - Built-in load balancing
- Supports many languages and platforms
 - .NET, Node.js, Python, Ruby and many more
- Easy continuous deployment
 - Continuous delivery from third-party source control providers
 - Built-in Git repo

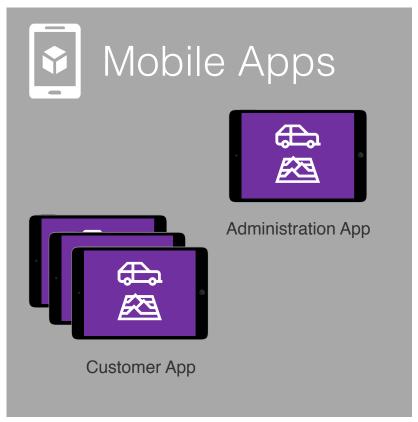




Microsoft Azure

















SQL

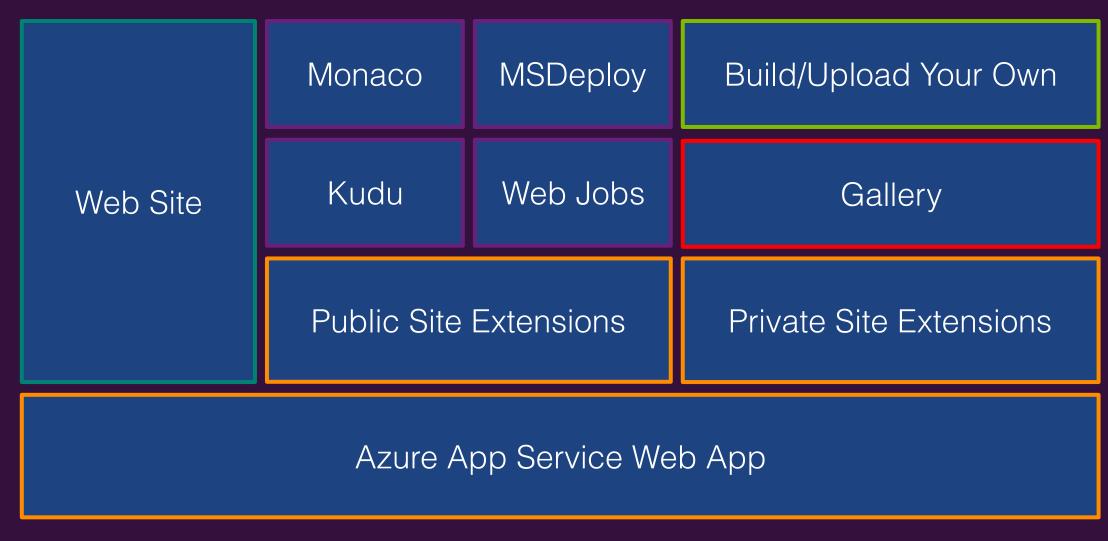




Web apps run as-is no changes required

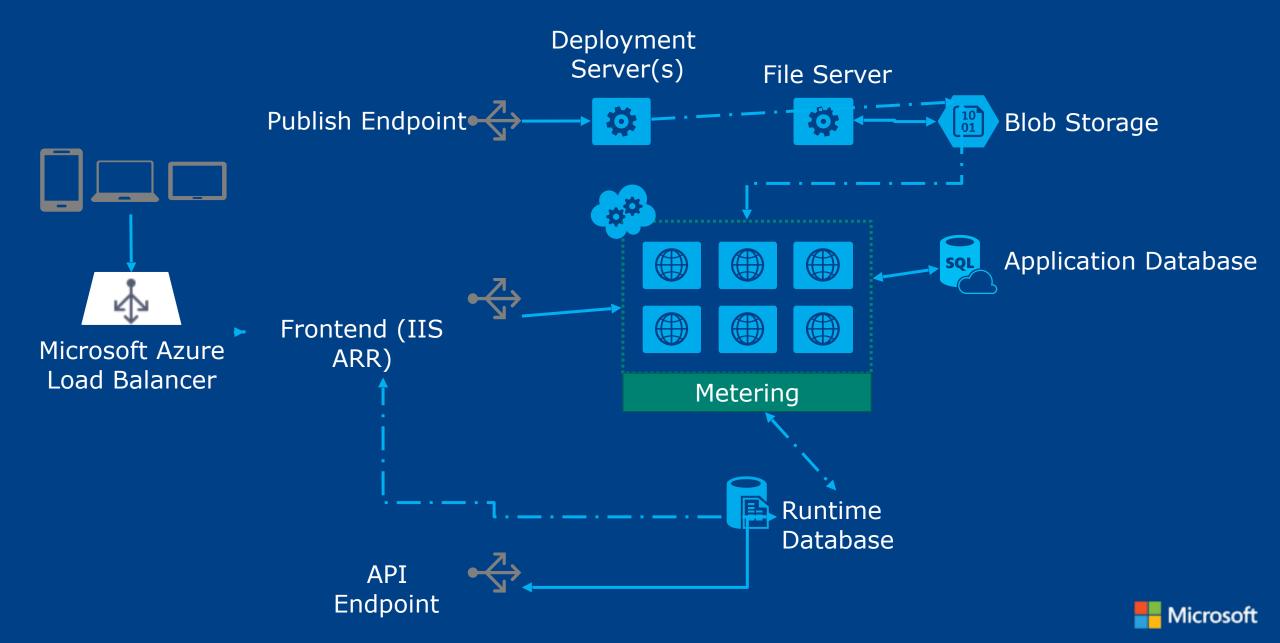
Full capability set available including:

- .NET, Node.js, Java, PHP, and Python
- WebJobs for long running tasks
- Integrated VS publish, remote debug...
- CI with GitHub, BitBucket, VSO
- Auto-load balance, Autoscale, Geo DR
- Virtual networking and hybrid connections
- Site slots for staged deployments





App Service Web App Architecture



WebJobs: Light-weight CPU Intensive Tasks















run.cmd, run.batrun.exe

run.ps1

run.sh

run.php

run.py

run.js

Job Type: On-Demand, Scheduled, Continuous

Scale: Singleton, Multi-instance

WebJobs SDK

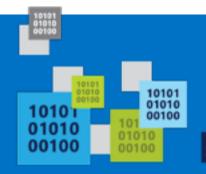
Feature:

BlobTrigger, TableTrigger, QueueTrigger,

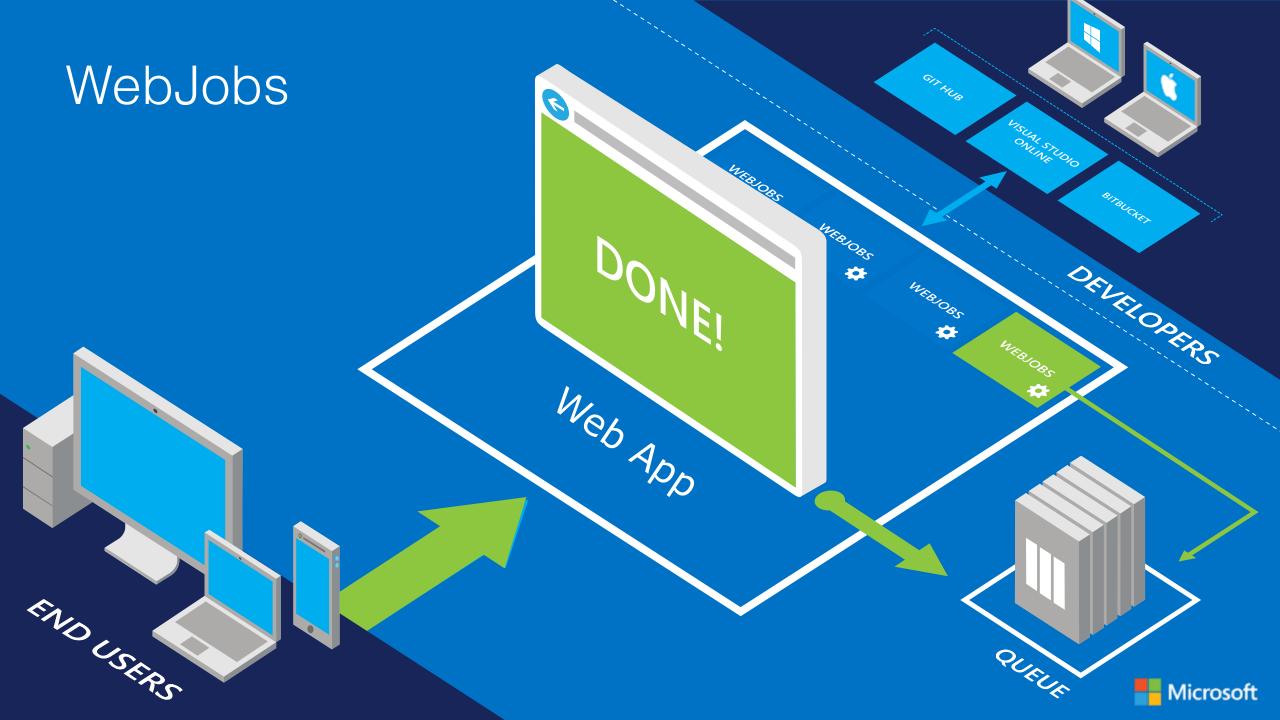
ServicebusTrigger

Deployment: Portal, Visual Studio, CLI, Git









API APPS

Create, consume and host APIs more easily

Easily use cloud or custom APIs:

- Dozens of built-in APIs for popular SaaS
- An ecosystem of APIs for any need
- Create and publish custom, reusable APIs
- Visual Studio tooling with one click publish and remote debugging
- Automatic client SDK generation for many languages

Benefits of API Apps

- Bring your API as-is
 - NET Web API
 - Node.js + Express
 - Java
 - PHP
 - Many other technologies
- Connect easily to SaaS platforms





API Apps addresses key pains around building and consuming APIs

Build your API

- Web Apps++: Bring you API as is in your language of choice
- Simple access control
- SSC
- Metadata contract
- Microservice style
- Expose enterprise APIs



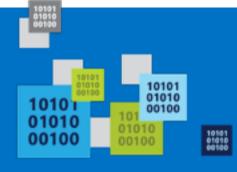
Consume APIs

- Authentication, built-in to mobile and web SDKs
- SSO, handled by server
- SDK generation
- API discovery
- Gallery public & organization

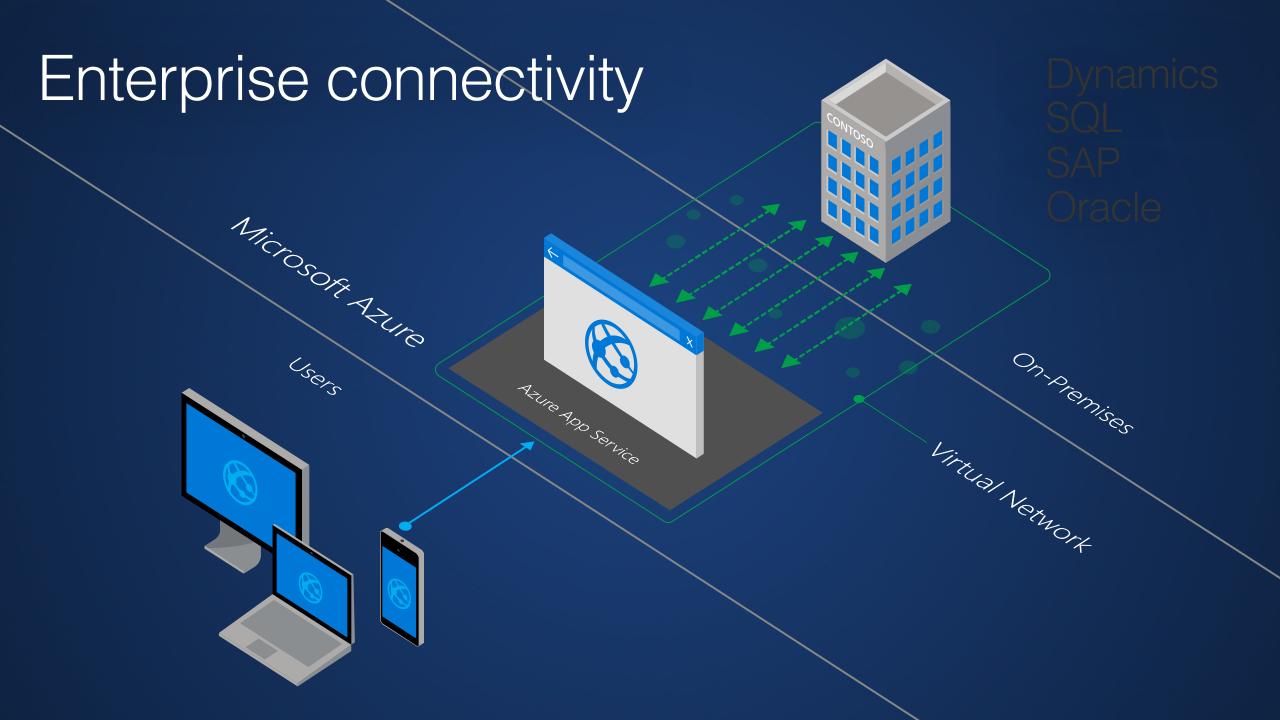


Consuming API Apps

- API Apps expose HTTP services
- Metadata is exposed using Swagger 2.0 metadata
 - JSON file
 - Widely supported
- Client applications







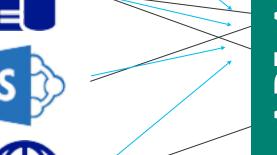
Managed Middle Tier

On Premise Applications

Databases in Azure VMs

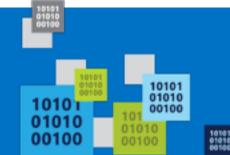


Cloud-Hosted Web Apps







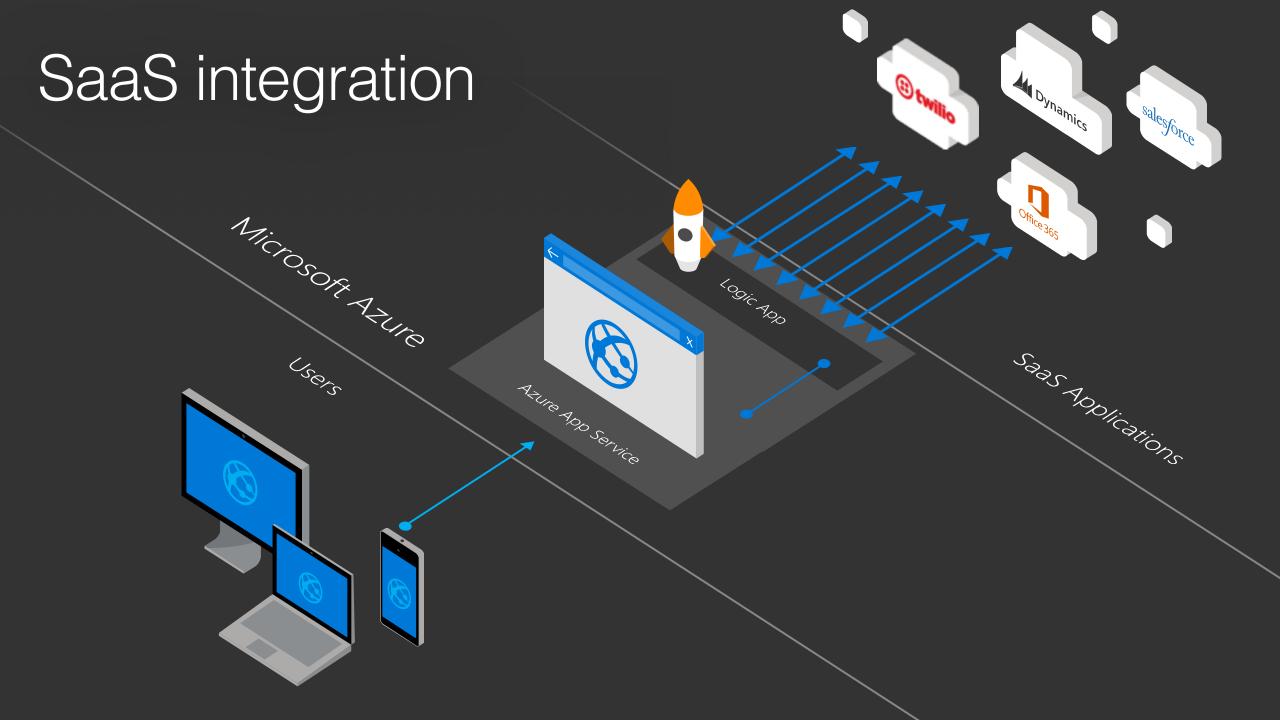


New Logic Apps for easy automation • No code designer for rapid creation

- Dozens of pre-built templates to get started
- Out of box support for popular SaaS and onpremises apps
- Use with custom API apps of your own
- Biztalk APIs for expert integration scenarios



Automate SaaS and on-premises systems



Built-in API Connectors











Connectors

- Box
- Chatter
- Delay
- Dropbox
- Azure HD Insight
- Marketo
- Azure Media Services
- OneDrive
- SharePoint
- SQL Server
- Office 365
- Oracle
- QuickBooks
- SalesForce
- Sugar CRM
- SAP

Protocossrvice Bus

- Azure Storage
- HimBr H Recurrence
- Filalio
- निक्रमसिं
- · FEM SEEP
- PORMINAP
- **SWet**Bephere MQ
- · ARAPE WESCFobs
- Yammer
- Dynamics CRM
- Dynamics AX
- Hybrid Connectivity

BizTalk Services

- Batching / Debatching
- Validate
- Extract (XPath)
- Transform (+Mapper)
- Convert (XML-JSON)
- Convert (XML-FF)
- X12
- EDIFACT
- AS2
- TPMOM
- Rules Engine

































MOBILE APPS

Mobile services plus a whole lot more

New capabilities for Mobile apps:

- Webjobs for long running tasks
- CI with GitHub, BitBucket, VSO
- Auto-load balance, Autoscale, Geo DR
- Virtual networking and hybrid connections
- Site slots for staged deployments

Azure Mobile Services





Storage



Authentication



Logic



Push



Scheduler



Structured Storage

- Powered by SQL Database
- Supports rich querying capabilities
- Dynamic Schematization
- Data management in:
 - Azure Portal
 - SQL Portal (Silverlight)
 - SQL Management Studio
 - REST API
 - Azure CLI Tools
 - SQL CLI





Node.js scripts

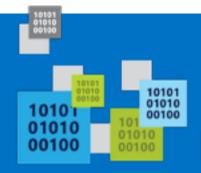
.NET Web API backend in Visual Studio

Passes through to SQL by default

MongoDB, Table Storage, SQL out of the box

Intercept CRUD requests to tables

Fully customizable





Non-table based endpoints

- Accessible from
 - GET
 - POST
 - PUT
 - PATCH
 - DELETE
- For node.js logic in scripts like table endpoints
- For .NET delivered through a WebAPI
- Expose any functionality you want







Scaling Up vs. Scaling Out

Scale Up







Vary the VM size

1 Core w/ 1.75 GB RAM 2 Cores w/ 3.5 GB RAM 4 Cores w/ 7 GB RAM

Scale Out

















Max 3* instances Max 10 instances Max 20/50** instances

Manual Scaling vs. Auto-Scaling

Manual – Scale via portal or scripts

Auto – CPU Percentage

Auto – Schedule & Performance Rules

