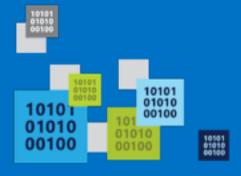
## App Service Web Apps

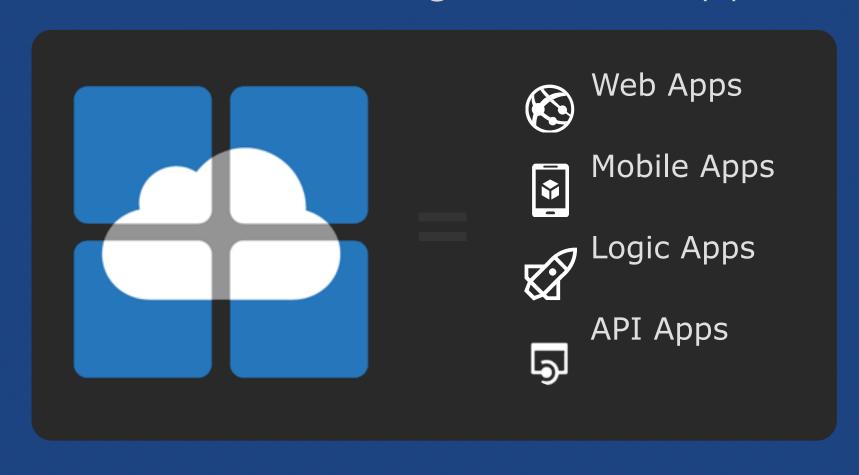




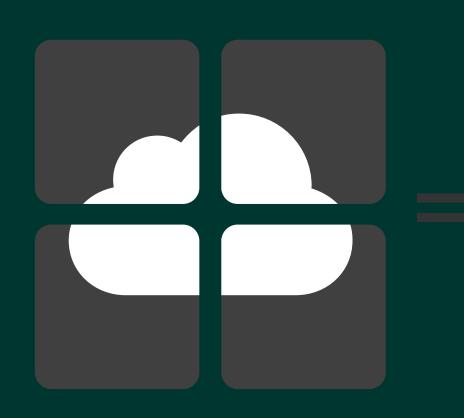
# Azure App Service



# Azure App Service Build and scale great cloud apps



## App Service - one integrated offering





Web Apps
Web apps that scale
with your business



Mobile Apps
Build Mobile apps
for any device



LOGIC Apps

Automate business process across SaaS and on-premises



**API Apps** 

Easily build and consume APIs in the cloud





NET | Node.js | PHP | Python | Java



Microsoft Ature
Users
Aure Anserice

Oele/Ope,

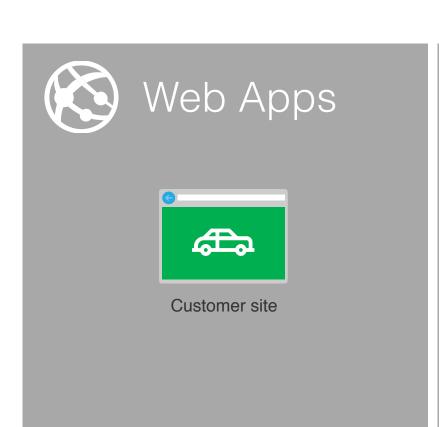
#### Benefits of App Services

- 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

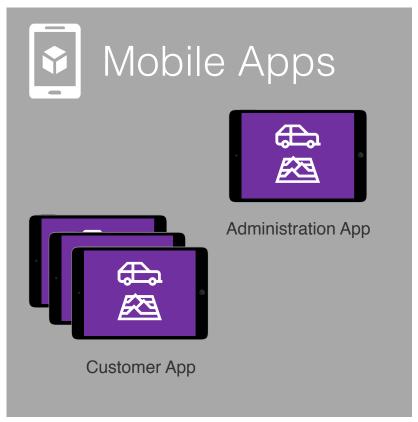




#### Microsoft Azure

















SQL



# Web Apps

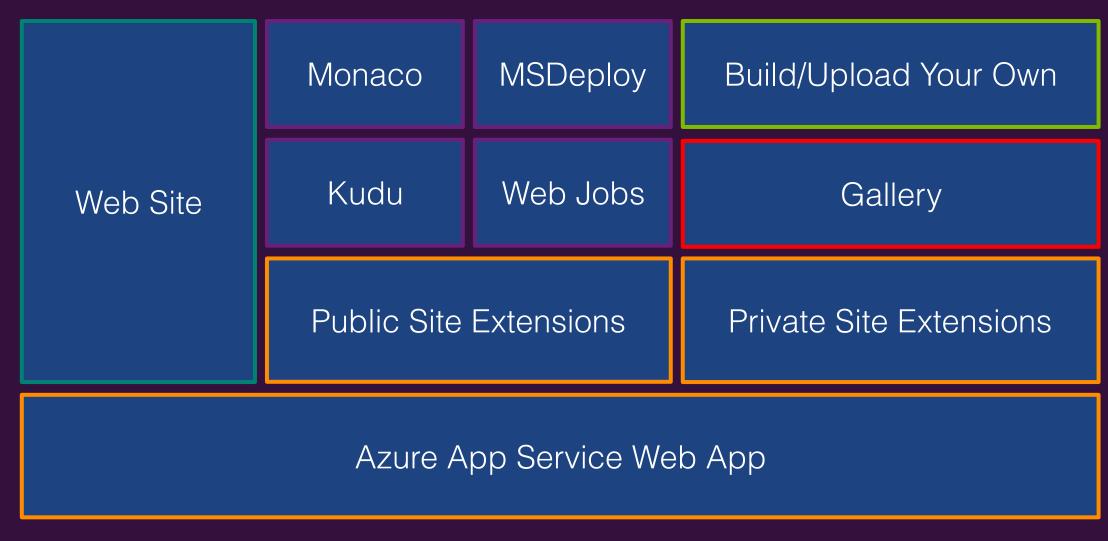




Web apps run as-is no changes required

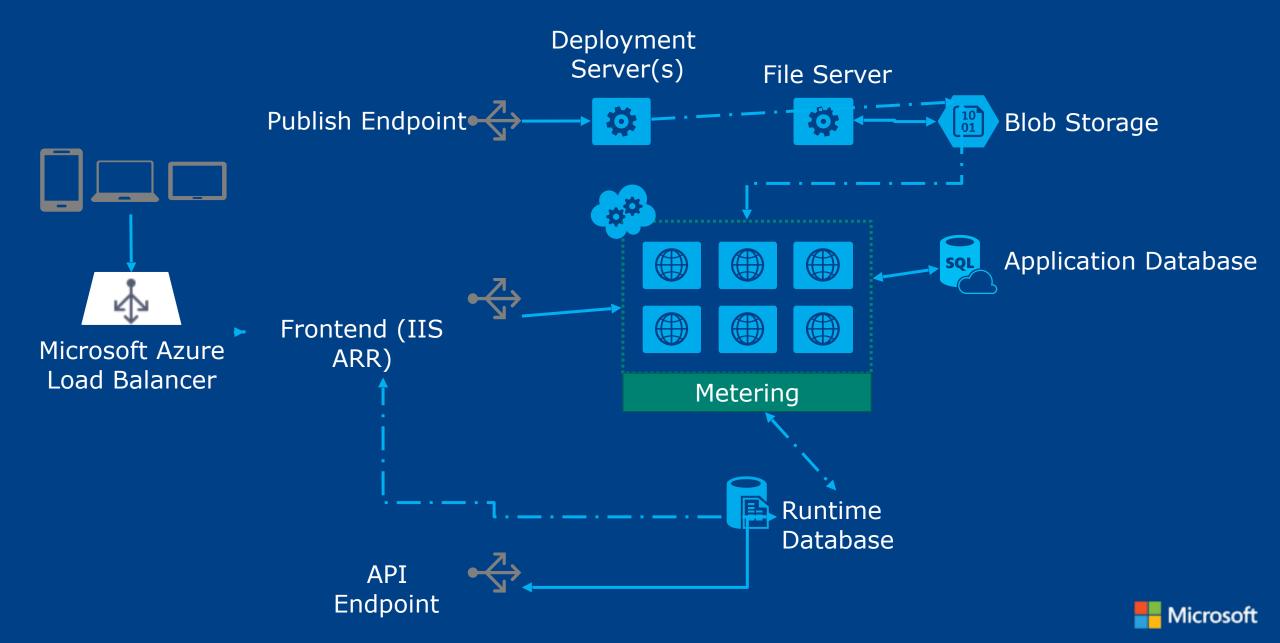
## Full capability set available including:

- .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

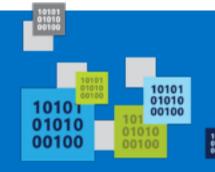


## Visual Studio + App Service Web Apps



Create Azure Resources during File / New

Create Web App during deploy Manage with Server Explorer





## 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

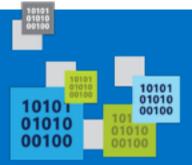
Feature:

BlobTrigger, TableTrigger, QueueTrigger,

ServicebusTrigger

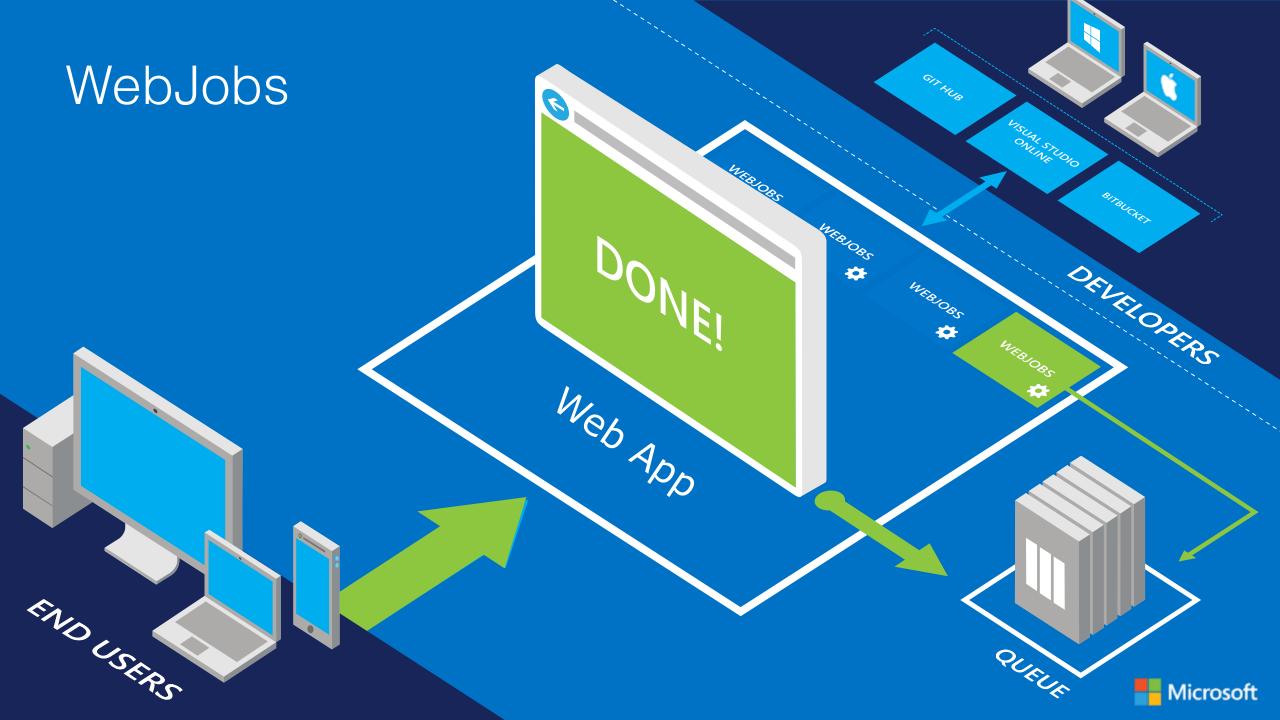
Deployment: Portal, Visual Studio, CLI, Git











# API Apps



# 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



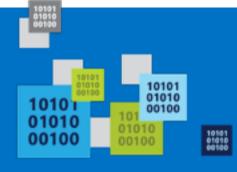
#### Consume APIs

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

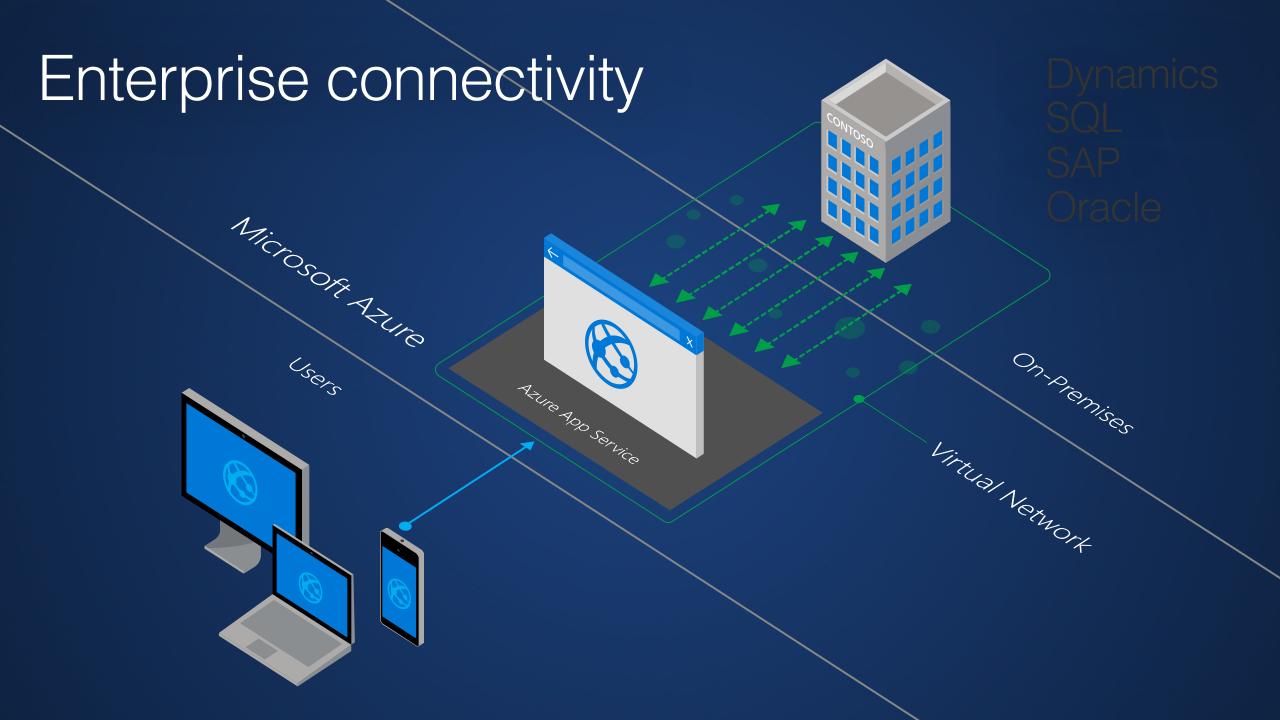


## Consuming API Apps

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







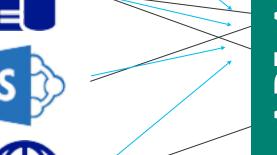
#### Managed Middle Tier

On Premise Applications

Databases in Azure VMs

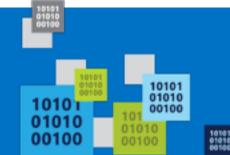


Cloud-Hosted Web Apps









# Logic Apps

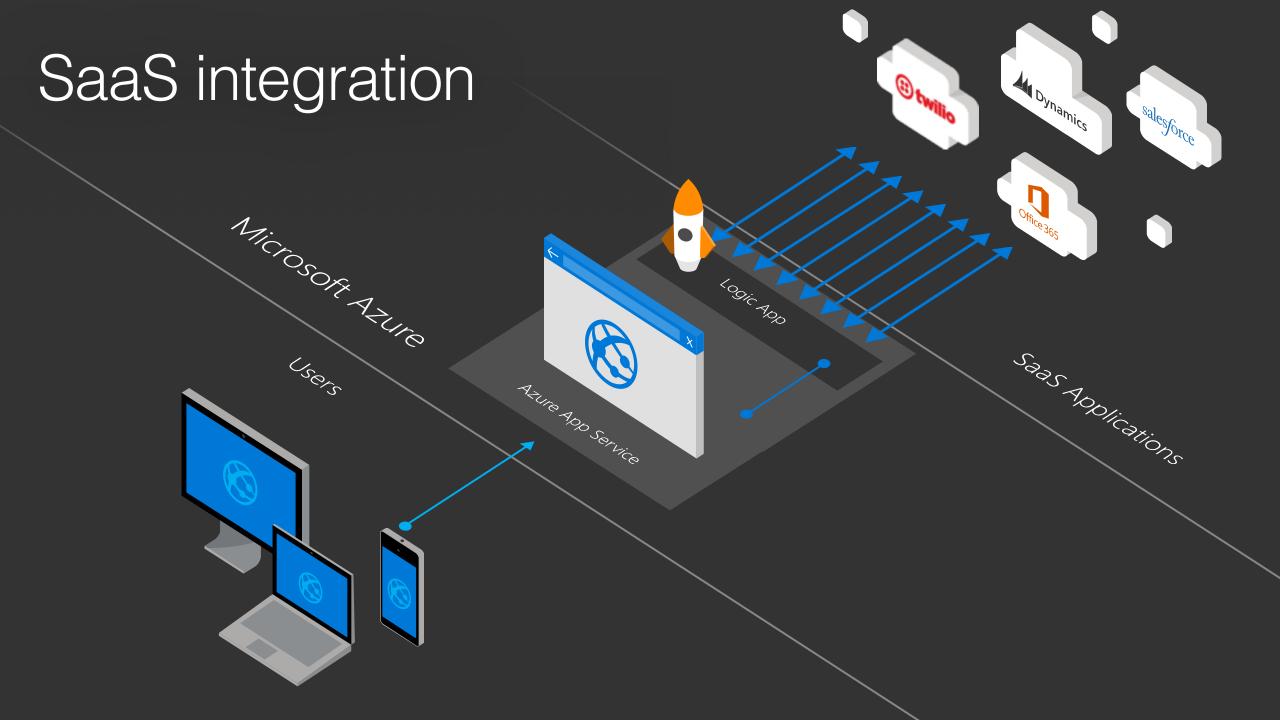


# New Logic Apps for easy automation • No code designer for rapid creation

- 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

































### Target audience is anyone who can use Azure

... but not necessarily business users or consumers



# Mobile Apps



# 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

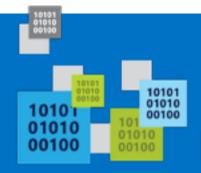
.NET Web API backend in Visual Studio

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

### Custom API



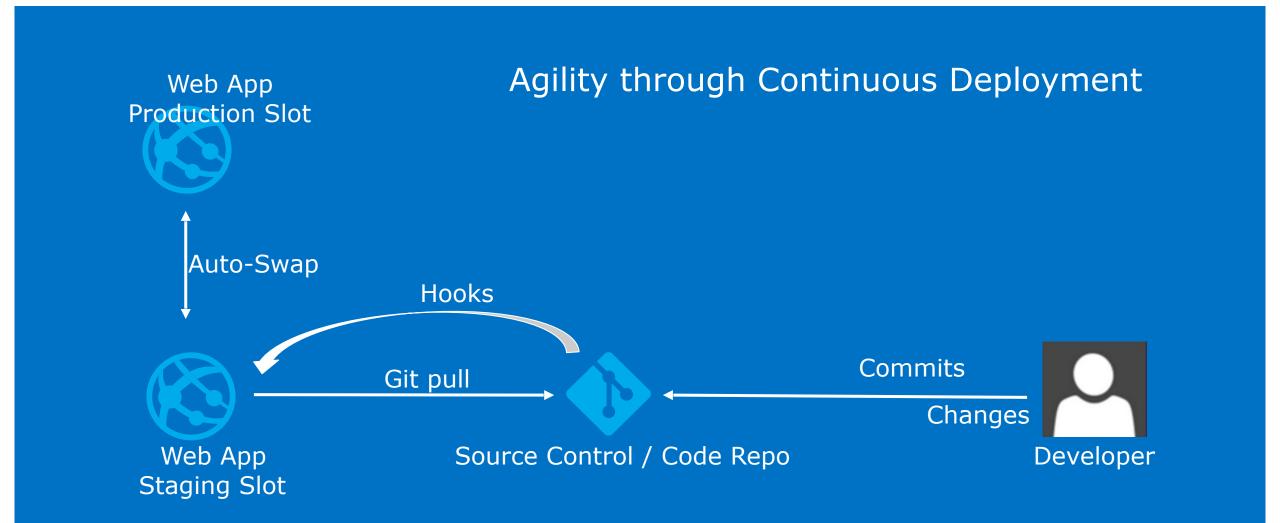


## Continous Delivery with App Service



Continuous integration Microsox Aturo Oekeloper Ature 400 Service

## Continuous Deployment for Web Apps

















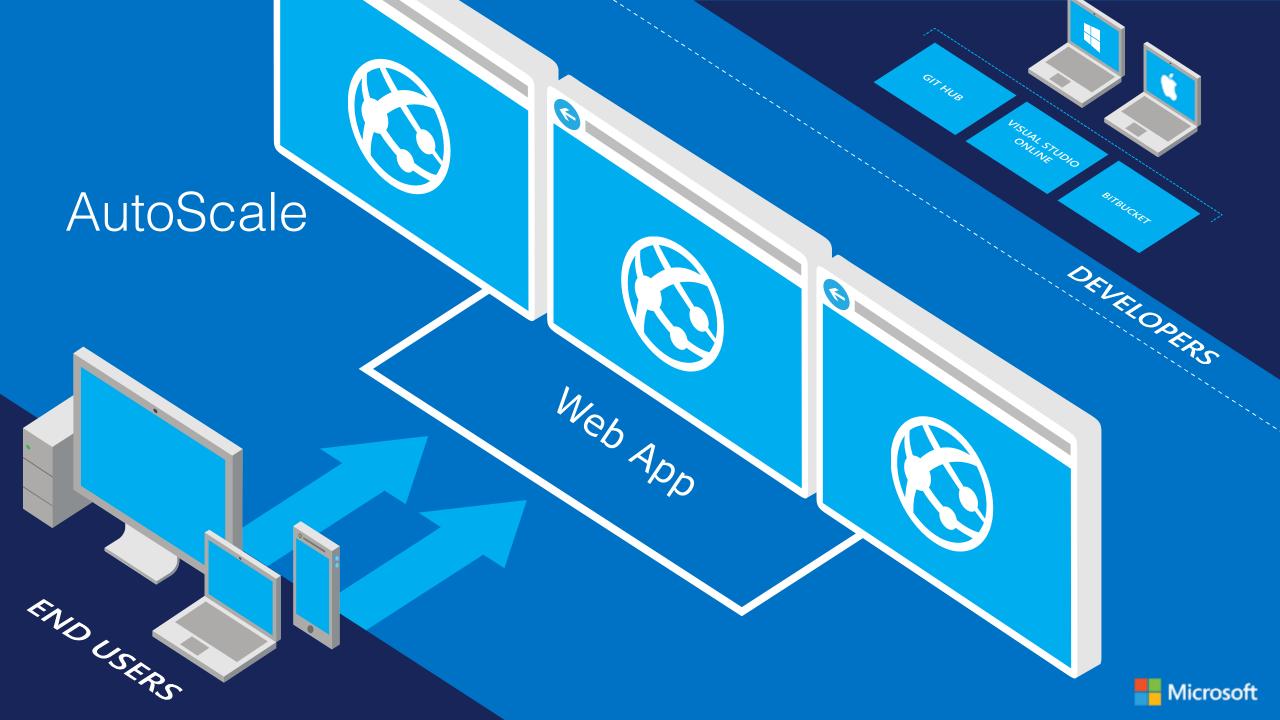
Choose your own adventure!

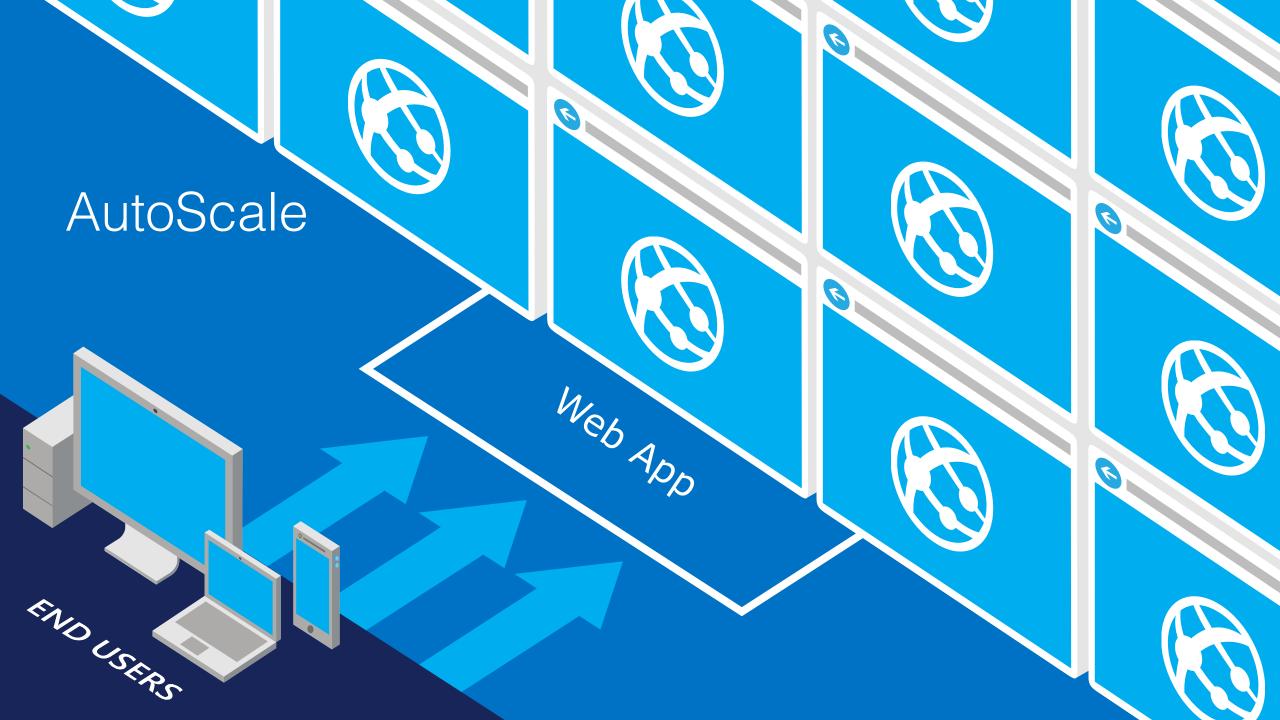


## AutoScale









## App Service Environment



## App Service Environment (ASE)

- New Premium Tier Feature
- Dedicated compute resources and network resources
- Increased Scaling Options
- Directly created in a Virtual Network
- Support all Web App features and capa
- Support Web, Mobile and API Apps
- Global Scale



## Conceptual Model



App Service App



App Service App



App Service App

#### App Service Plan

SKU: Premium (# of sites, storage, slots...)

Compute Resource: P4 ( 8 cores, 14 GB

memory) Scale: 8



App Service App



App Service App



App Service App

#### App Service Plan

SKU: # of sites, storage, slots... Compute Resource: cores, memory

Scale: number of instances

Note: For App Service Environment the SKU will always be Premium



# Application Insights



#### Microsoft Azure

