

Building iOS Apps with Windows Azure Mobile Services

Chris Risner
Technical Evangelist
Microsoft

<http://chrisrisner.com>
[@chrisrisner](https://twitter.com/chrisrisner)

Agenda



Windows Azure Mobile Services

Data

Auth

Diagnostics & Scale

What is Windows Azure Mobile Services?



Getting Started

a backend for your mobile app in minutes



Demo

Structured Storage

Structured Storage with SQL Database

If using single database apps are partitioned by schema

AppX.Todoitem

AppY.Todoitem

Manage data in

Portal

SQL Management Portal

SQL Management Studio

REST API...

Server Logic

Automatic service REST API generated for storage

Dynamic Schema on/off

Ability to author server logic that intercepts CRUD operation pipeline

Rich querying capability

Server Logic

Supported Modules + Globals

mssql

request

console

tables

statusCodes

```
mssql.query('select top 1 * from
statusupdates', { success: function(results) {
                                console.log(results);
                                }
                                }
);
```

REST API to SQL type mappings

JSON Value

T-SQL Type

Numeric values (integer, decimal, floating point)

Float

Boolean

Bit

DateTime

DateTimeOffset(3)

String

Nvarchar(max)

Server Logic

adding server logic on CRUD operations



Demo

Auth*

Authenticate against multiple providers

Table level permissions for each CRUD operation

- Everyone

- Anyone with the Application Key

- Only Authenticated Users

- Only Scripts and Admins

More granular control with server side scripts

- `user.level: {admin, authenticated, anonymous}`

- `user.userId: id or undefined if not authenticated`

Adding Authentication

integrating with Twitter



Demo

Diagnostics, Logging and Scale

Diagnostics

API calls
CPU Time
Data Out

Logging

```
console.error(...)  
console.log(...)
```

...

Scale - Compute

Scale out instance count
Scale up VM size

Scale - Storage

Scale to dedicated SQL DB
Scale up SQL DB

Diagnostics, Logging, Scale



Demo

Free Offer at Preview

10 Mobile
Services



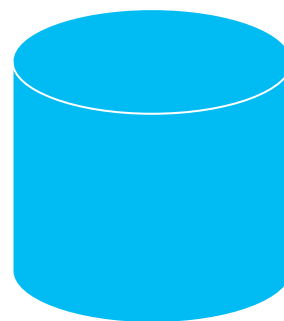
Running on
shared
instances

Unlimited ingress

165MB daily egress

Data transfer is per
subscription, not per
mobile service

1GB SQL
Database



Currently only
in US DCs

From WA Free Trial

Pricing

pricing & licensing



Shared Instance (multitenant environment)

Small instance is the only size available; multiple may be purchased

Free at public preview

Up to 10 applications

Reserved Instance (private VM)

Small instance is the only size available; multiple may be purchased

Charge for Preview will be at the same reduced rate as Web Sites

Up to 10 applications

service level agreements



Preview
Per customer SLA

General Availability
99.9%

Summary



Resources

Mobile Services Developer Portal

<https://www.windowsazure.com/en-us/develop/mobile/>

API Reference

<http://bit.ly/Q3Aq6G>

Windows Azure Accounts

<http://aka.ms/MobileServices-iOS-SDK>