

# Connected & Disconnected Apps with Azure Mobile Apps

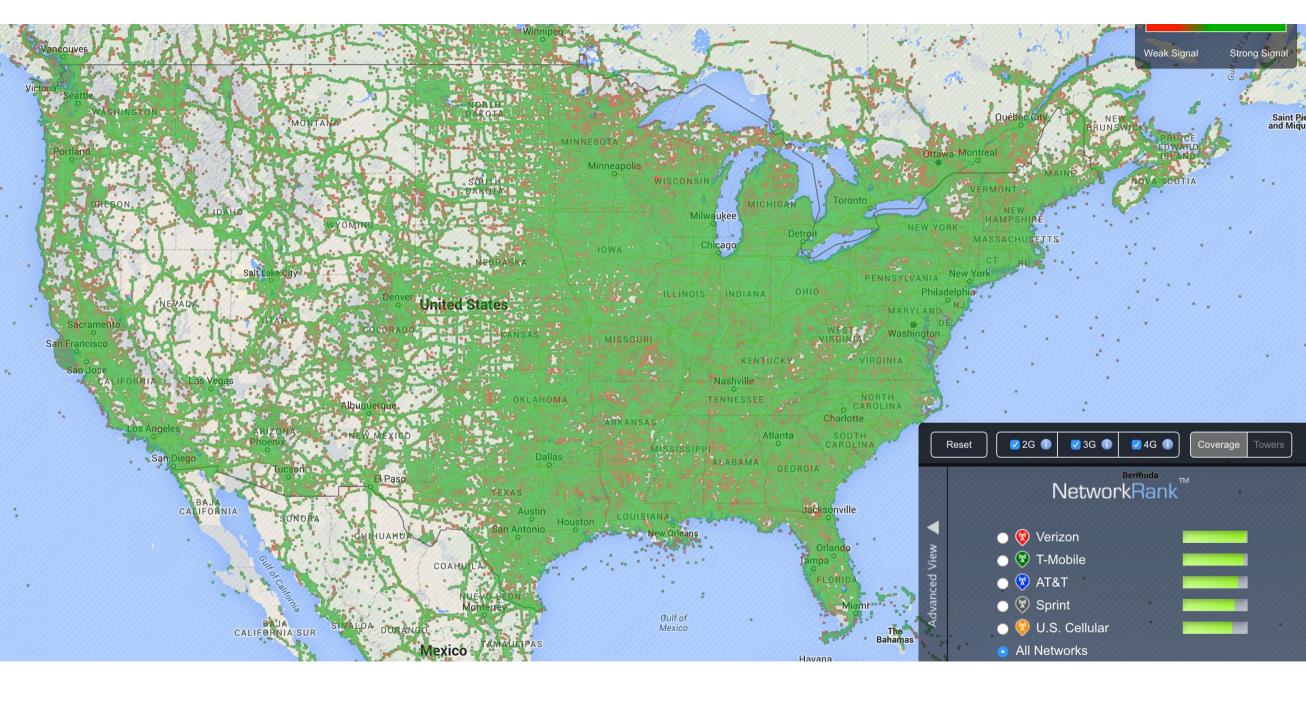
Presenter Name Presenter Twitter Presenter Title

#### The best apps stand out

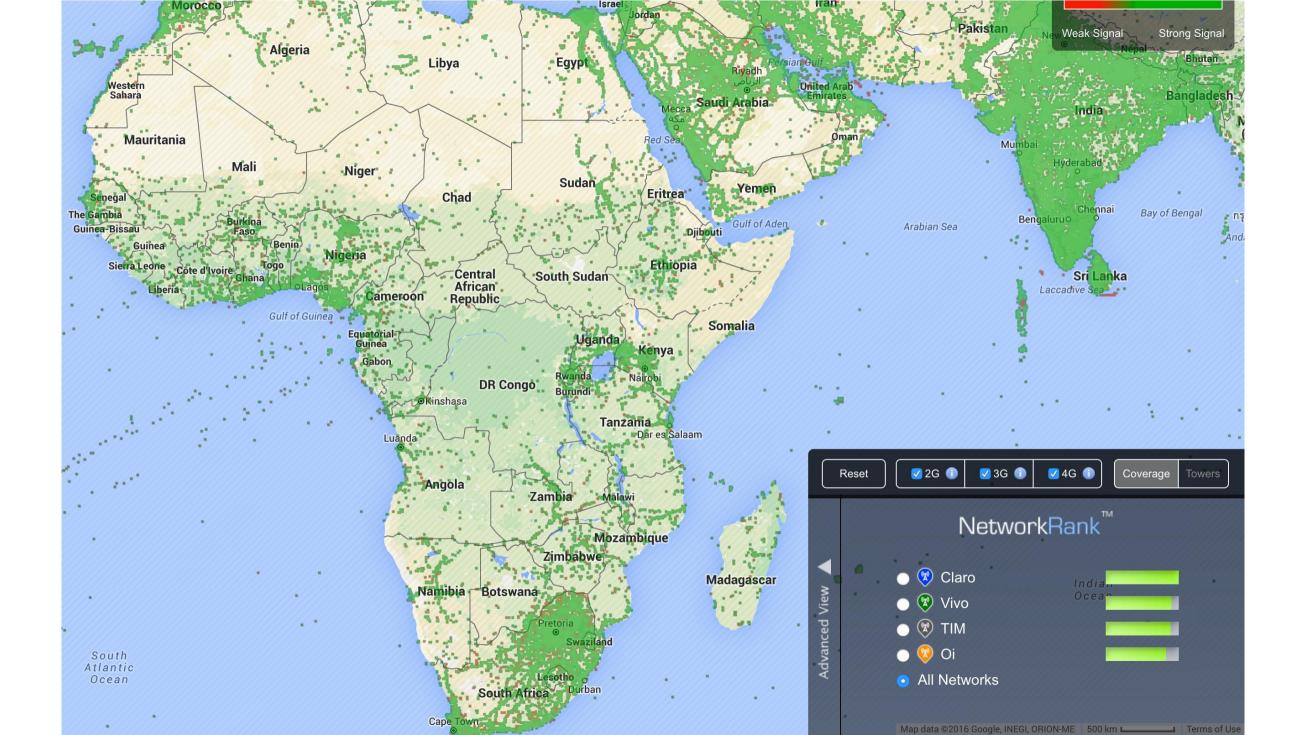
#### Bad app experiences

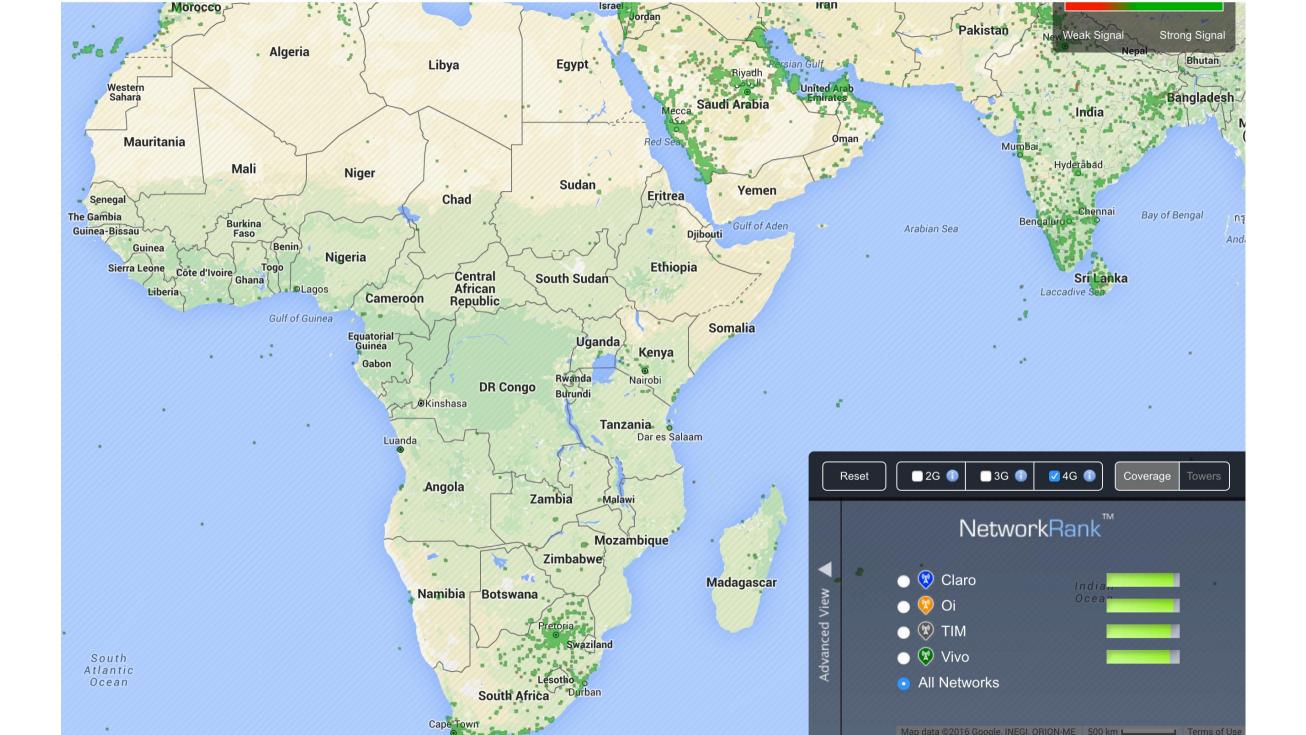
- Crashes
- Hard to navigate, poor UI, bad user experience
- Features not as advertised
- Slow or laggy experience
- Data not available when you need it

# Always connected?



opensignal.com/coverage-maps





What about a backend?

### Infrastructure designed for Scale

#### 100+ datacenters

G Series – Largest VM in World

Announced



Azure compute regions open today

More than AWS and Google Cloud combined

Datacenters recently added in Canada, China, and India

## Why Azure Mobile Apps?

- Extremely powerful
- Flexible
  - Easy Tables (Node.js Backend)
  - App Service (ASP.NET Backend)
- Cross-platform client SDK
  - iOS, Android, and Windows
- Open source C#
  - Backend and Client SDKS on GitHub

#### Azure Mobile Apps



**REST API** 



# Let's build a backend

#### Create a Mobile Service

```
MobileService = new MobileServiceClient(
    "https://myapp.azurewebsites.net");
```

#### Create tables

```
IMobileServiceSyncTable<TodoItem> syncTable;
public async Task Init()
    const string path = "syncstore.db";
    var db = new MobileServiceSQLiteStore(path);
    db.DefineTable<TodoItem>();
   await MobileService.SyncContext.InitializeAsync(db);
   syncTable = MobileService.GetSyncTable<TodoItem>();
```

### Push and pull with sync table

```
private async Task SyncAsync()
    await MobileService.SyncContext.PushAsync();
    var query = syncTable.CreateQuery();
    await syncTable.PullAsync("todoItems", query);
private async Task InsertTodoItem(TodoItem todoItem)
    await syncTable.InsertAsync(todoItem);
    await MobileService.SyncContext.PushAsync();
```

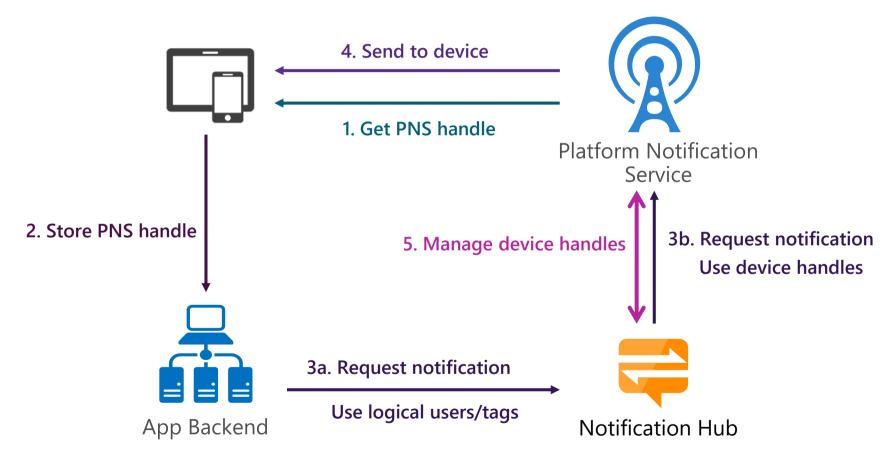
#### Query local table

#### User authentication

- Secure your app with prebuilt authentication providers
  - Facebook
  - Twitter
  - Google
  - Microsoft
  - Azure AD
  - Anything OAuth 2

# Much More

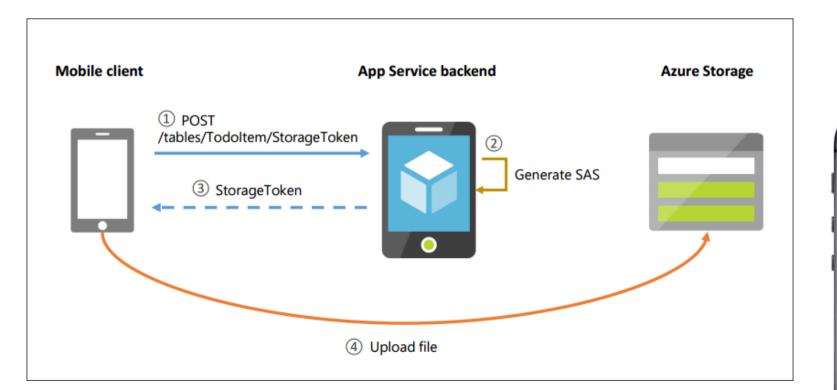
#### Push notifications with Notification Hub

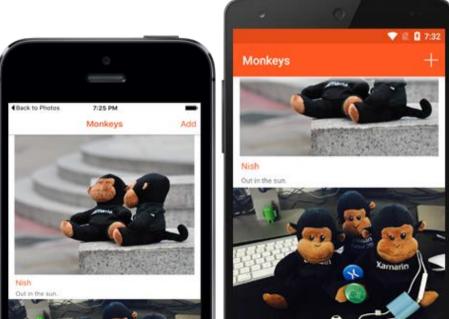


Maps between tags and handles

## File sync

- Sync files to Azure Storage
- Online/Offline, just like table storage





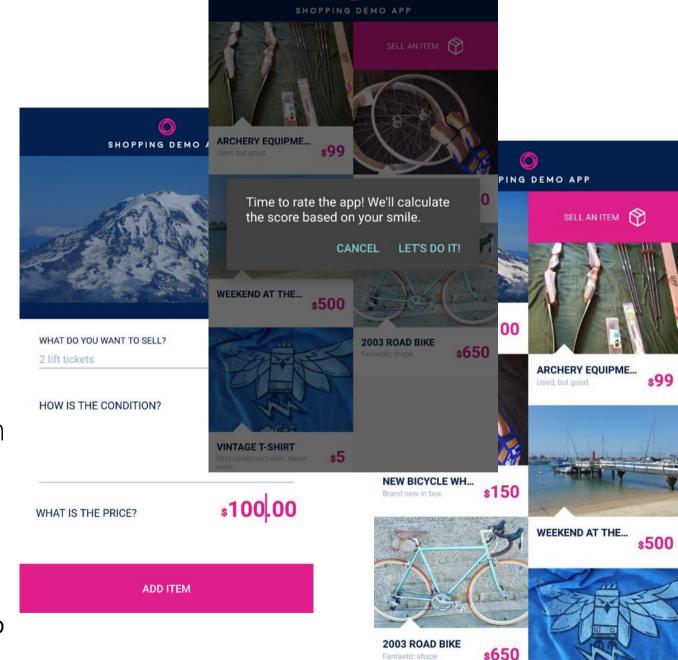
## Shopping Demo App

#### Azure Services:

- Cognitive Services (Emotion API)
- Storage
- On/offline sync
- Push notifications
- Authentication

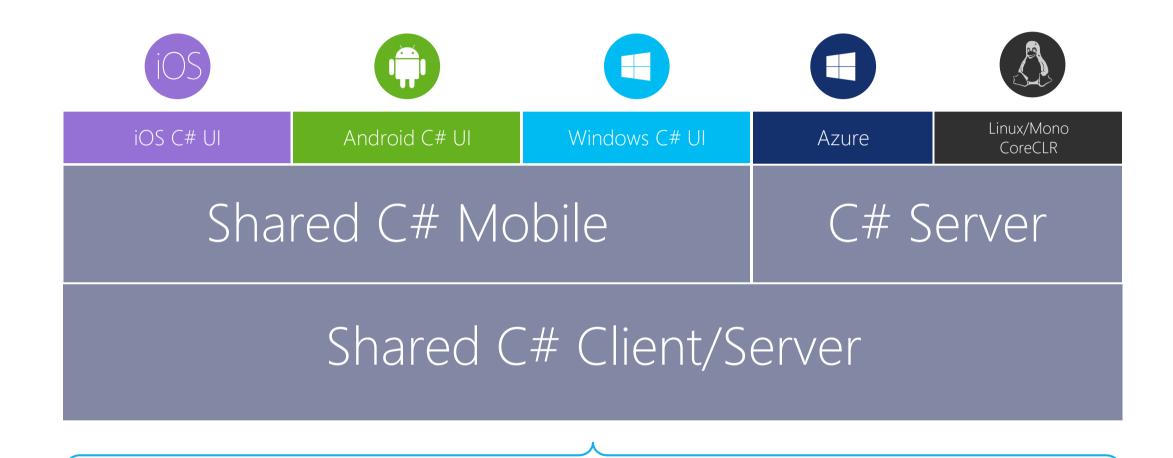
#### What's Available:

- Complete sample app with documentation
- Individual "quick starts"



github.com/Microsoft/XamarinAzure\_ShoppingDemoApp

#### Mobile + Server



Shared C# codebase • 100% native API access • High performance

#### Summary

- Plan for global reach
- Always cache data locally
- Assume success and push updates on re-connect
- Select a backend that grows with you



Get started today xamarin.com/download xamarin.com/azure xamarin.com/dev-ops

# Lunch!

Presenter First Name Presenter Last Name Presenter Title