

CODE SNIPPETS

✓ "todo app" + auth

Manifest

<uses-permission android:name="android.permission.INTERNET"/>

import com.microsoft.windowsazure.mobileservices.*;

Controller

authenticate();

MainActivity.java

```
private MobileServiceClient mClient;
private MobileServiceTable<ToDoItem> mToDoTable;
public void onCreate(Bundle savedInstanceState) {
       mClient = new MobileServiceClient(
               "https://**your-domain**.azure-mobile.net/",
               "**AZURE-MOBILE-SERVICE-KEY**",
```

```
private void authenticate() {
       mClient.login(MobileServiceAuthenticationProvider.Twitter,
               new UserAuthenticationCallback() {
                       public void onCompleted(...) {
                              createTable();
                       }
               });
}
```

```
private void createTable() {
       // Get the Mobile Service Table instance to use
       mToDoTable = mClient.getTable(ToDoItem.class);
       // Get the Todo items
       refreshItemsFromTable();
```

Model

}

```
@com.google.gson.annotations.SerializedName("id")
private String mId;
public String getId() { return mId; }
public final void setId(String id) { mId = id; }
```

Azure Todoltem > Script > Insert

Insert.js

```
function insert(item, user, request) {
    item.userId = user.userId;
    request.execute();
```

Azure Todoltem > Script > Read

Read.js

```
function read(query, user, request) {
    query.where({userId:user.userId});
    request.execute();
```

AZURE MOBILE SERVICES

Start Azure free trial (required to verify your identity) http://aka.ms/azure_trial

ANDROID SDK MANAGER

Install Android Studio / Android SDK

OAUTH GUIDES

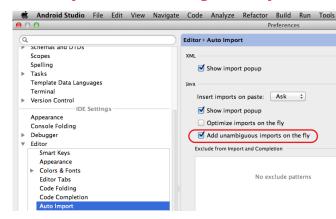
Facebook

Microsoft Live

Google+



Auto Import 'Add unambiguous imports'





Import 'Eclipse' project in Android Studio

▶ File > Import Project...

Enable Twitter app Sign in setting

https://apps.twitter.com

Callback URL https://your-domain.azure-mobile.net/

Where should we return after successfully authenticating? OAuth 1.0a applications should regardless of the value given here. To restrict your application from using callbacks, lea

Allow this application to be used to Sign in with Twitter

• Check allow app to "Sign in with Twitter"



CODE SNIPPETS

private static MobileServiceClient mClient;



Manifest

```
<receiver
android:name="com.microsoft.windowsazure.notifications.NotificationsBroadcastReceiver"
          android:permission="com.google.android.c2dm.permission.SEND">
       <intent-filter>
       </receiver>
  </application>
</manifest>
```

Controller

ToDoActivity.java

```
public static MobileServiceClient getClient() { return mClient; }
public void onCreate(Bundle savedInstanceState) {
       NotificationsManager.handleNotifications(this,
"**google-project-number**", MyPushNotificationHandler.class);
```

Model

```
@com.google.gson.annotations.SerializedName("handle")
private String mHandle;
public String getHandle() { return mHandle; }
public final void setHandle(String handle) { mHandle = handle; }
```

Push Handler

```
public class MyPushNotificationsHandler extends NotificationsHandler {
     public void onRegistered(Context context, String gcmRegistrationId)
          super.onRegistered(context, gcmRegistrationId);
          // + Support push notifications to users...

MobileServiceClient client = ToDoActivity.getClient();

MobileServiceTable<Channel> registrations = client.getTable(Channel.class);
          // Create a new Registration
Channel channel = new Channel();
          channel.setHandle(gcmRegistrationId);
          // Insert the new Registration
          registrations.insert(channel, new TableOperationCallback<Channel>() {
                    // onCompleted ...
```

Azure Todoltem > Script > Insert

Insert.js

```
request.execute({
    success: function() {
        request.respond();
        sendNotifications(item.text);
});
   ... function sendNotifications(item_text)
```

MOBILE SERVICES CLIENT

Download Mobile Services client libraries for Android http://azure.microsoft.com/en-us/develop/mobile/developer-tools/

ANDROID SDK MANAGER

Install Google Play Services (for Push Notifications)

1	Name	API	Rev.	Stat
■ ▼	🖊 🦲 Extras			
	Android Support Repository		5	~
	Android Support Library		19.1	~
	Google AdMob Ads SDK		11	~
	Google Analytics App Tracking SDK		3	
	[Deprecated] Google Cloud Messaging for An		3	~
	Google Play services for Froyo		12	
☑	🖪 Google Play services		16	- -
	=			



Activate API in Google Cloud Console

Google Cloud Messaging for Android

Turn ON 'Google Cloud Messaging'



ON

Enable Push Notifictions on Android Virtual Device



Edit AVD Target to use Google APIs

Copy Push Notifications libs

notifications-1.0.1.jar

https://go.microsoft.com/fwLink/?LinkID=280126&clcid=0x409

google-play-services.jar

android-sdk/extras/google/google_play_services/ libproject/google-play-services_lib/libs

• Copy jar files into your project 'libs' folder

Android Studio libraries not resolving?

Add Gradle dependencies compile 'com.android.support:support-v4:+' compile 'com.google.code.gson:gson:2.2.2'
compile fileTree(dir: 'libs', include: ['*.jar'])

Rebuild, or try quit & reopen project

Azure Mobile Service Logs – 500 Error

• Check your node.js script is valid format.