# Real World Big Data in Azure

**Module 8 Setup Instructions**

In Module 8 we add to our real-time data store with HBase running on HDInsight.

## Telemetry

This is the demo solution for the course. In this module we have the existing projects from Modules 1-7.

### Pre-requisites

The demo solution is delivered in Visual Studio 2013, Update 4 and uses the Azure SDK version 2.5.

The solution uses NuGet package restore to load packages during the build.

To enable this in Visual Studio, open *Tools…Library Package Manager…Package Manager Settings* and ensure both options (*Allow NuGet to download missing packages* and *Automatically check for missing packages during build in Visual Studio*) are ticked.

To store real-time data you will need an available instance of SQL Server (Express edition is fine), to run Storm on HDInsight you will need an Azure subscription, an HBase cluster, a SQL Azure instance, and an instance of the Ingestion API from the course running and sending events to your Event Hub.

### Before

This is the solution code from the start of Module 8.

### After

By the end of the module we added a Device Errors bolt to the Storm application which writes to HBase.

To run the solution in your Azure subscription you will need to set up the configuration in the project **Telemetry.EventProcessor.RealTime.Storm** and **Telemetry.RealTime.Dashbaord**. In *app.config* and *web.config*:

* *EventsHBase.ClusterUrl* – URL for your HBase cluster on HDInsight
* *EventsHBase.Username* – HBase cluster username (default on Azure is ‘admin’)
* *EventsHBase.Password* – HBase cluster admin password

Submit the project to your HDInsight Storm cluster, send some device error events to your Ingestion API and you will see the topology process them and store the output in HBase.