Microsoft Azure Development

1. Storage
   1. Sql PaaS 🡪 Configuration + Coding
      1. Relational Database
      2. Sql Server on Azure
   2. NoSQL 🡪 Coding
      1. CosmosDB
         1. Table Storage
         2. SQL API aka DocumentDB
         3. MongoDB
         4. Casandra
   3. Other Relational Databased
      1. Postgres
      2. MariaDB
      3. MySQL
2. API Apps 🡪 Configuration + Coding
   1. WEB Sites
   2. REST APIs
   3. Deployment
3. Serverless Processing 🡪 Coding
   1. Azure Functions
      1. Triggers
4. Azure AD-Based Security for WEB APPs 🡪 Configuration
   1. Live Sign-In
   2. OpenId Connect
5. Microservices – Creation
   1. Docker

Azure Storage Programmatically

* Create a .NET App (Desktop/Web)
* Install the NuGet Packages for the application
  + WindowsAzure.Storage
    - Table
      * Can be used along with Microsoft.Azure.CosmosDB.Table package
    - BLOB
      * Microsoft.AzureStorage.Blob
    - Queue
      * Microsoft.AzureStorage.Queue
    - File
      * Microsoft.AzureStorage.File
* The Proxy aka client classes for working with storage APIs
  + TableEntity and TableService
    - TableEntity class is base class for creating table entity
      * RowKey
      * PartitionKey
      * TimeStamp
  + CloudStorageAccount
    - The Proxy for the Cloud Storage Account to Authenticate Client Application against the Cloud Storage Account EndPoint aka Connection String
  + CloudTableClient
    - The Proxy class that points to Azure Table Storage Service
    - This class is used to
      * Create Table
      * Manipulate Table
  + CloudTable
    - Class represent the cloud Table
  + TableOperation
    - Class use to manipulate Azure Table
  + TableQuery<T>
    - Used to define Object-Based Query to perform operations of TableEntity of type T
  + CloudBlobContainer
    - Class that represent the reference of BLOB Container
  + CloudBlobClient
    - Proxy for Cloud Blob
  + CloudBlockBlob
    - Class to Unpload / Download the blob