# How to create a Microsoft Azure SQL Database programmatically

## Build the sample

1. Start Microsoft Visual Studio 2015 and select **File > Open > Project/Solution.**

2. Go to the directory to which the sample was unzipped. Then go to the subdirectory named for the sample and double-click the Visual Studio 2015 Solution (.sln) file

3. Create and configure Active Directory

a. Go to **Microsoft Azure** (portal.azure.com)

b. Select **Active Directory > Applications > Add**

c. Enter a **Name** and choose **Native Client Application**

d. Enter a **Redirect URI** (does not need to be an actual endpoint, just a valid URI)

e. After AD is created, click **Configure**

i. Take note of the **Client ID** on this page for the next step

f. Click **App application** on the bottom of the page

g. Select **Microsoft Apps** and select **Azure Service Management API** from the table and complete the wizard

h. Grant permission to access this API by selecting **Access Azure Service Management (preview)**

4. Add your variables to the program

· azureSubscriptionId – From portal.azure.com in **Subscriptions**

· location – See <https://azure.microsoft.com/en-us/pricing/details/sql-database/> for more information

· edition – See <https://azure.microsoft.com/en-us/pricing/details/sql-database/> for more information

· requestedServiceObjectName – See <https://azure.microsoft.com/en-us/pricing/details/sql-database/> for more information

· resourceGroupName – From portal.azure.com in **Resource Groups**, create new or select existing Resource group

· serverName – From portal.azure.com in **Resource Groups**, go into selected Resource group and **+Add** new or select existing SQL server

· databaseName – Name of your database

· domainName – Go to portal.azure.com and hover over your name in the upper right corner and the Domain will appear in the pop-up window

· clientId – From Step 3

· clientAppUri – The Redirect URI from Step 3

5. Build the sample. Build > Build Solution

## Run the sample

To debug the sample and then run it, press F5 or use **Debug > Start Debugging**. To run the sample without debugging, press Ctrl+F5 or use **Debug > Start Without Debugging**.