Connect EF Postgre Sql;

<https://stackoverflow.com/questions/35570400/postgresql-with-ef6-creation-of-ddex-is-failed>

Install **Npgsql**, to work between **Entity Framework** to **PostgreSql**:

1. Download and install the **Setup\_NpgsqlDdexProvider.exe** from <https://github.com/npgsql/npgsql/releases>.
2. Open Visual-Studio, click on the tab: **TOOLS -> Setup Npgsql DbProviderFactories**. A window will open, you need to click OK.
3. **Close Visual-Studio** and open as **administrator** the two **machine.config** files of .NET with notepad.

There are two file that we need to edit, you can find the file at the paths:

* C:\Windows\Microsoft.NET\Framework\v4.0.30319\Config\machine.config
* C:\Windows\Microsoft.NET\Framework64\v4.0.30319\Config\machine.config

Add the flowing element to the files:

<system.data>

<DbProviderFactories>

<remove invariant="Npgsql"/>

<add name="Npgsql Data Provider"

invariant="Npgsql"

description=".Net Data Provider for PostgreSQL"

type="Npgsql.NpgsqlFactory, Npgsql, Culture=neutral, PublicKeyToken=5d8b90d52f46fda7"

support="FF" />

</DbProviderFactories>

</system.data>

1. Reopen Visual-Studio at the wanted project.
2. Install Entity Framework through Nuget.
3. Open the **Package Manager Console** and insert the commend:

Install-Package EntityFramework6.Npgsql

Check that the wanted DLL are references, like so:

If not add the DLL manually. The sopose to be at the paths:

* C:\Users\YOURCOMPUTERNAME\documents\visual studio 2015\Projects\PostgreSqlVsEfwDemo\packages\Npgsql.3.0.5\lib\net45\Npgsql.dll
* C:\Users\ YOURCOMPUTERNAME\documents\visual studio 2015\Projects\PostgreSqlVsEfwDemo\packages\EntityFramework6.Npgsql.3.0.5\lib\net45\EntityFramework6.Npgsql.dll

1. Open the App.config\Web.config and add two elements:
   * The provider element at entityFramework -> providers. as so:
   * The provider element at DbProviderFactories. as so:
   * <system.data>
   * <DbProviderFactories>
   * <remove invariant="Npgsql" />
   * <add name="Npgsql Data Provider" invariant="Npgsql" description=".Net Data Provider for PostgreSQL" type="Npgsql.NpgsqlFactory, Npgsql, Culture=neutral, PublicKeyToken=5d8b90d52f46fda7" support="FF" />

</DbProviderFactories>

If the <system.data> element isn't exist, add it all.

1. Now lets add **Entity Data Model** like so:
   * Select "EF Designer from database"

* Click on "New Connection"
* Choose the "PostgreSQL Database" as the Data source:
* Filled the fields:
  + HOST
  + USERNAME
  + PASSWORD
  + PORT
  + DATABASE (fill this field last.)

1. Click on "Test Connection" to see if it works.
2. Continue with Entity Framework as regular.

Hope it's help you.

[This document](http://www.npgsql.org/doc/ddex.html) of Npgsql Docs really helped me, but still have problems.