Connect EF Postgre Sql;

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>
```

4.   Reopen Visual-Studio at the wanted project.

5.   Install Entity Framework through Nuget.

6.   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

7.   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.
8.   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.)

9. Click on "Test Connection" to see if it works.
10. Continue with Entity Framework as regular.
Hope it's help you.

This document of Npgsql Docs really helped me, but still have problems.