

## Using H2 in Microsoft .NET

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The database can be used from Microsoft .NET even without using Java, by using IKVM.NET. You can access a H2 database on .NET using the JDBC API, or using the ADO.NET interface.

### Using the ADO.NET API on .NET

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An implementation of the ADO.NET interface is available in the open source project [H2Sharp](#).

### Using the JDBC API on .NET

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- Install the .NET Framework from [Microsoft](#). Mono has not yet been tested.
- Install [IKVM.NET](#).
- Copy the h2\*.jar file to ikvm/bin
- Run the H2 Console using: ikvm -jar h2\*.jar
- Convert the H2 Console to an .exe file using: ikvmc -target:winexe h2\*.jar . You may ignore the warnings.
- Create a .dll file using (change the version accordingly): ikvmc.exe -target:library -version:1.0.69.0 h2\*.jar

If you want your C# application use H2, you need to add the h2.dll and the IKVM.OpenJDK.ClassLibrary.dll to your C# solution. Here some sample code:

```
using System;
using java.sql;

class Test
{
    static public void Main()
    {
        org.h2.Driver.load();
        Connection conn = DriverManager.getConnection("jdbc:h2:~/test", "sa", "sa");
        Statement stat = conn.createStatement();
        ResultSet rs = stat.executeQuery("SELECT 'Hello World'");
        while (rs.next())
        {
            Console.WriteLine(rs.getString(1));
        }
    }
}
```