

Build an EF and ASP.NET Core 2 App HOL

Welcome to the Build an Entity Framework Core 2.0 and ASP.NET Core 2.0 Application in a Day Hands On Lab. Prior to starting the lab, you must have Visual Studio 2017 15.3, the .NET Core 2.0 SDK, .NET Core 2.0 runtime, and SQL Server 2016 (Express or better) installed. This lab walks you through the installation process.

All labs and files are available at https://github.com/skimedict/dotnetcore_hol.

Part 0: Installing the Prerequisites

Step 1: Download and install Visual Studio 2017 15.3 Community Edition

- 1) Download Visual Studio 2017 15.3 (any edition) from the Visual Studio home page:
<https://www.visualstudio.com/en-us/visual-studio-homepage-vs.aspx>
 - a) The Community Edition is free, and has everything you need to complete this Hands on Lab
- 2) Start the installer
 - a) The new installation experience has separate workloads based on what type of work you intend to do. For this lab, select the “ASP.NET and web development” workload as well as the “.NET Core cross-platform development” workloads.
 - b) Select the Individual Components menu at the top of the installation screen, and check:
 - i) .NET Core runtime
 - ii) .NET Framework 4.7 SDK
 - iii) .NET Framework 4.7 targeting pack

Step 2: Confirm the installation of .NET Core

- 1) Open a command window and type:

where dotnet

- 2) After unpacking some files, it should respond with:

```
C:\Program Files\dotnet\dotnet.exe  
[Optionally] C:\Program Files (x86)\dotnet\dotnet.exe
```

- 3) Check the version of the .NET Core SDK and Command Line Interface (CLI) by entering:

```
dotnet --info
```

- 4) The response will be (at the time of this writing):

```
.NET Command Line Tools (2.0.0)
```

```
Product Information:
```

```
Version:          2.0.0
```

```
Commit SHA-1 hash: cdc1928c9
```

Runtime Environment:

OS Name: Windows

OS Version: 10.0.16273

OS Platform: Windows

RID: win10-x64

Base Path: C:\Program Files\dotnet\sdk\2.0.0\

Microsoft .NET Core Shared Framework Host

Version: 2.0.0

Build: e8b8861ac7faf042c87a5c2f9f2d04c98b69f28d

Step 3: Download and install the SQL Server 2016 Express

- 1) Download the SQL Server 2016 Express Edition from <https://www.microsoft.com/en-us/sql-server/sql-server-downloads>

Summary

These are all of the tools you need to complete this Hands on Lab.

Next steps

In the next part of this tutorial series, you will create the solution and projects for this hands on lab.