Build an EF and ASP.NET Core App HOL

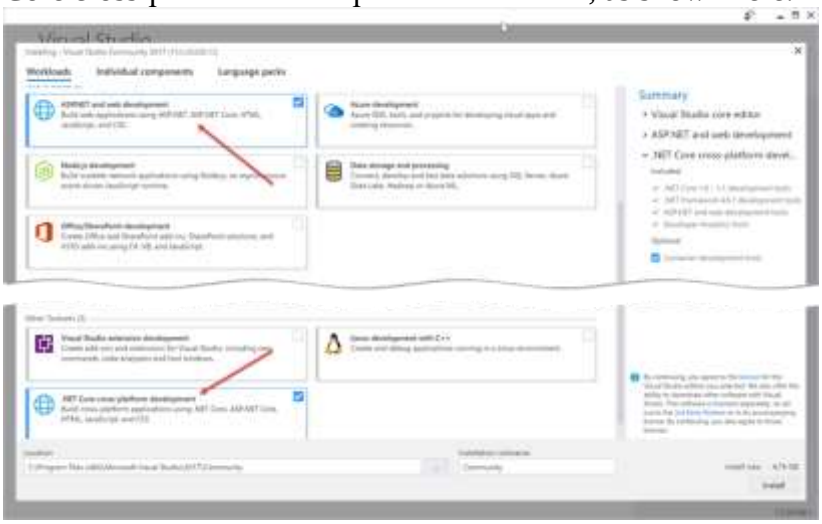
Welcome to the Build an Entity Framework Core and ASP.NET Core Application in a Day Hands On Lab. Prior to starting the lab, you must have Visual Studio 2017, the .NET Core SDK, .NET Core runtime, and SQL Server 2016 installed. This lab walks you through the installation process.

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

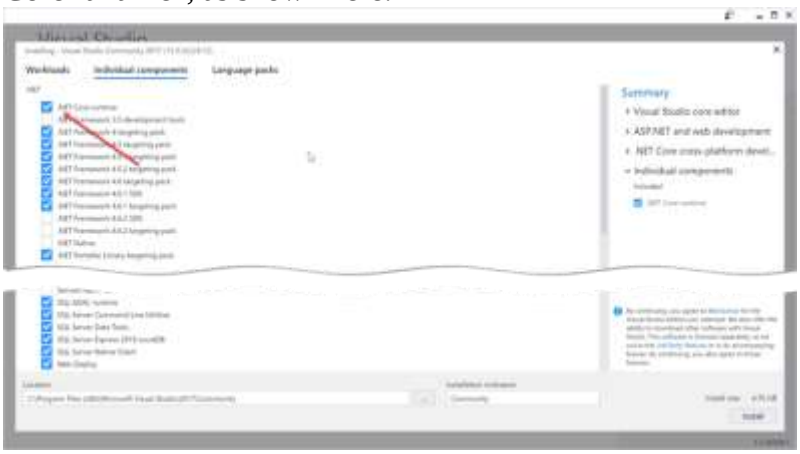
Part 0: Installing the Prerequisites

Step 1: Download and install Visual Studio 2017 Community Edition

1) Download Visual Studio 2017 (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, as shown here:



   b) Select the Individual Components menu at the top of the installation screen, and check ".NET Core runtime", as shown here:



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
```

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 (1.0.3)

Product Information:
 Version:            1.0.3
 Commit SHA-1 hash:  37224c9917

Runtime Environment:
 OS Name:     Windows
 OS Version:  10.0.16176
 OS Platform: Windows
 RID:         win10-x64
 Base Path:   C:\Program Files\dotnet\sdk\1.0.3
```

5) Check the version of the Shared Framework Host by entering:

```
dotnet
```

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

```
Microsoft .NET Core Shared Framework Host

  Version  : 1.1.0
  Build    : 928f77c4bc3f49d892459992fb6e1d5542cb5e86

Usage: dotnet [common-options] [[options] path-to-application]

Common Options:
  --help                Display .NET Core Shared Framework Host help.
  --version             Display .NET Core Shared Framework Host version.

Options:
  --fx-version <version>          Version of the installed Shared Framework to use to run the application.
  --additionalprobingpath <path>  Path containing probing policy and assemblies to probe for.

Path to Application:
  The path to a .NET Core managed application, dll or exe file to execute.

If you are debugging the Shared Framework Host, set 'COREHOST_TRACE' to '1' in your environment.
```

To get started on developing applications for .NET Core, install the SDK from:
http://go.microsoft.com/fwlink/?LinkID=798306&clcid=0x409

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.