

Development environment setup

In this lesson you will setup the development environment that will be used across this course.

Required tools

Here for the tools required for this module:

- The **.NET 5 Software Development Kit (or SDK)**, which includes everything needed to build and run .NET applications
- **Docker desktop**, which has all the tools needed to run the multiple infrastructure services that we will use across the course
- And **Visual Studio Code**, the lightweight but powerful source code editor that we will use to write, build and debug our microservices code.

A few of the future modules will require more tools, but for now this is all that is needed.

Let's go through the installation of these tools and the overall setup of our development environment.

(Demo prep)

- Uninstall .NET SDK, Docker and VS Code
- Delete dirs:
 - %APPDATA%\Code, Docker, Docker Desktop, Nuget, npm-cache
 - %userprofile%\dotnet
 - %userprofile%\nuget
 - %userprofile%\docker
 - %userprofile%\vscode
- Disable Edge extensions
- Signout from Edge
- Clear browser history

Installing the tools

Before getting started just keep in mind that the pages you will see for downloading the tools will likely look a bit different depending on your operating system and the versions available at the time you are taking this course. But regardless, the overall download and installation process should be mostly the same.

Let's start by installing the .NET SDK...

1. Install .NET SDK
<https://dotnet.microsoft.com/download>
2. Open a Windows Terminal
3. Verify the installation of .NET:
`dotnet --info`
4. Install Docker
<https://docs.docker.com/get-docker>
5. Start docker from Start menu
6. Install VS Code
<https://aka.ms/vscode>
7. Let VS Code place icon on desktop.

In the next lesson, you will customize Visual Studio Code for C# development.