

# Building a Web App with ASP.NET Core, MVC, Entity Framework Core, Bootstrap, and Angular

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## WHAT IS ASP.NET CORE?



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# Overview



Build a web app using ASP.NET Core

Learn by doing

Feel free to follow along

You'll see it all



# What You'll Learn



ASP.NET Core and MVC 6

HTML5, JavaScript, CSS

Using Bootstrap

Data with Entity Framework Core

Client-side with Angular



# What You'll Use



**Visual Studio 2017**

**ASP.NET Core 2**

**Entity Framework Core 2**

**Bootstrap 3.3**

**Angular v4**



# Questions During the Course?

The screenshot shows the Pluralsight interface for a course titled "Building a Web App with ASP.NET Core, MVC 6, EF Core, and Angular" by Shawn Wildermuth. The course description states: "Understanding how to build an app with a full-stack of dev technologies is hard. In this course, you'll walk through a complete app to see how everything (ASP.NET http://ASP.NET Core 1.1, VS 2017, EF Core 1.1, Bootstrap 3 & Angular) works together." The interface includes a sidebar with navigation icons, a top search bar, and a main content area. Below the course title, there are buttons for "Resume Course", "Bookmarked", "Add to Channel", and "mentoring". A navigation bar at the bottom of the main content area has tabs for "Table of contents", "Description", "Exercise files", "Discussion", and "Recommended". A red arrow points to the "Discussion" tab. Below the navigation bar, the "Discussion" section is active, showing "1778 Comments" and "Pluralsight Course Discussions" by Shawn Wildermuth. There are buttons for "Recommend 19" and "Share". At the bottom, there is a text input field labeled "Join the discussion..." and a "Sort by Newest" dropdown menu.

What do you want to learn?

## Building a Web App with ASP.NET Core, MVC 6, EF Core, and Angular

by Shawn Wildermuth

Understanding how to build an app with a full-stack of dev technologies is hard. In this course, you'll walk through a complete app to see how everything (ASP.NET http://ASP.NET Core 1.1, VS 2017, EF Core 1.1, Bootstrap 3 & Angular) works together.

[Resume Course](#) [Bookmarked](#) [Add to Channel](#) [mentoring](#)

[Table of contents](#) [Description](#) [Exercise files](#) [Discussion](#) [Recommended](#)

**1778 Comments** **Pluralsight Course Discussions** **Shawn Wildermuth**

[Recommend 19](#) [Share](#) [Sort by Newest](#)

Join the discussion...

# Why Reinvent ASP.NET?

The Web Stack is \*old\*!

Weighed down by old, unused code

Machine level upgrades is problematic

Had Reached a Ceiling of Performance



ASP.NET Core is a complete  
rethinking of the platform.



# What Is ASP.NET Core?

Complete re-write of the platform

Cross-platform and open source

Single platform for MVC and WebAPI

Everything is a dependency

Low memory footprint

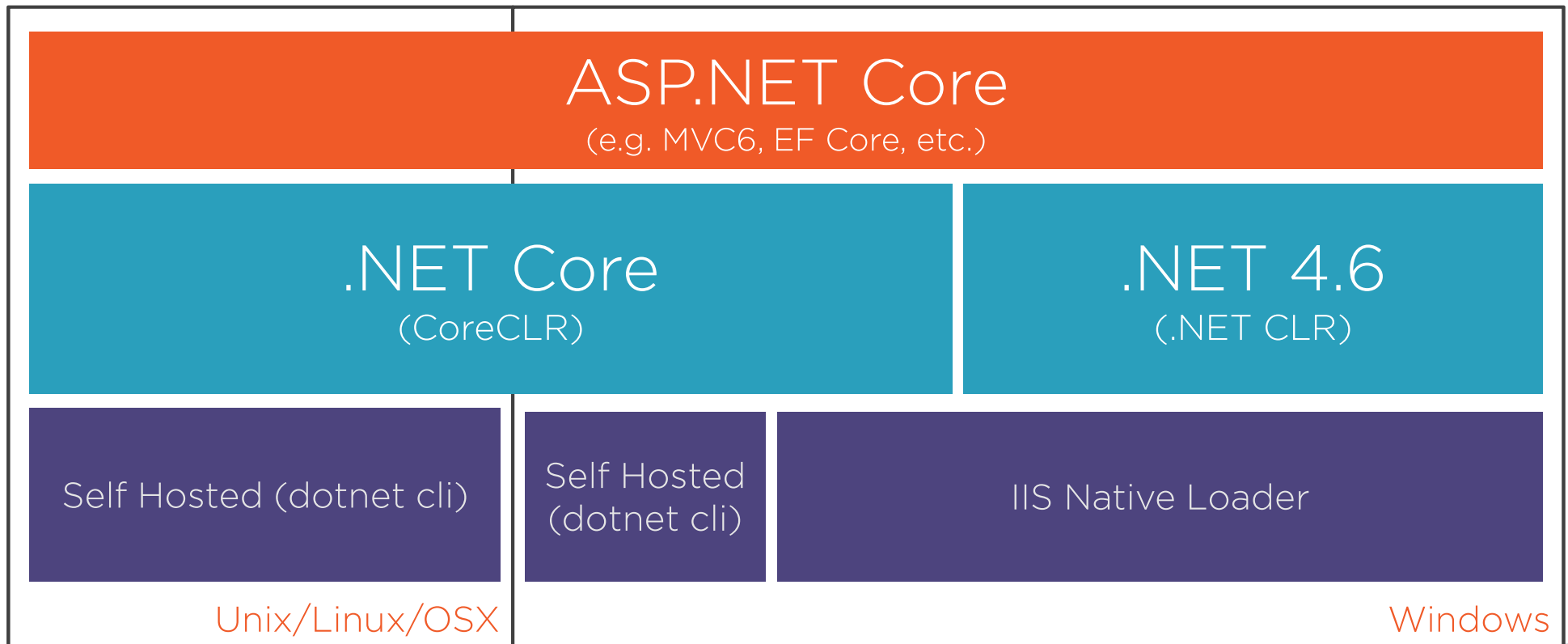
Multiple deployment support

Cloud, IIS, Self-Hosting, etc.





# Overview



# Frameworks?

## **.NET 4.x**

- The .NET you've always known
- Limited to Windows Only

## **.NET Core**

- The cross-platform .NET Framework
- Linux, Mac and Windows support



Completely  
Composed

### Above the .NET Core layer is a Package

- Frameworks are the bootstrap and CLR
- MVC, Logging, Identity are just packages
- Everything is optional



Embraces  
Open Web  
Development

### Uses existing web development tooling

- NPM for tooling support
- Bower/NPM for client-side libraries
- Grunt and Gulp for build automation
- NuGet for .NET Packages
- None of it is required

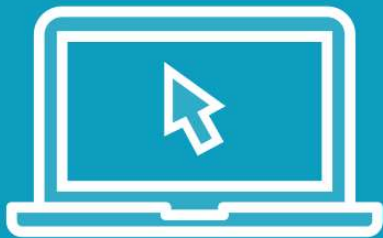


# Deployment Options for ASP.NET Core

	Windows	Mac	Linux*
Directly on Hardware	✓	✓	✓
In a VM	✓		✓
In a Container	✓		✓
Cloud Hosting	✓		✓



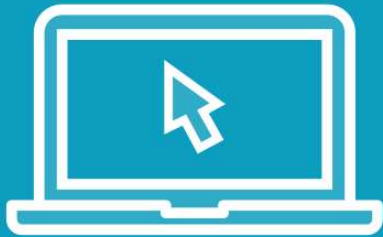
Demo



Installing ASP.NET Core



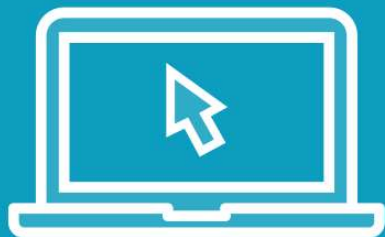
# Demo



## Hello World



Demo

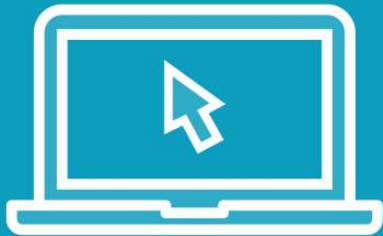


Installing Visual Studio 2017





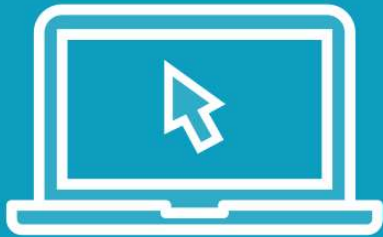
Demo



Creating the Project with Visual Studio



Demo



**Serving Your First File**



## What We've Learned

It's a whole new .NET world out there!

You can use the power of the full IDE

Or use command-line if you prefer

Open Source top-to-bottom

