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Introduction and Setup

Agenda

- Introduction to ASP.NET Core

- Installation

- .NET Command-Line Interface (CLI)

- Hello World

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Introduction

What is ASP.NET Core?

- Ground-up rewrite of ASP.NET

- Merges ASP.NET MVC and Web API

- Built to run on new .NET Core or .NET Framework

Why the rewrite?

- ASP.NET over 15 years old

- ASP.NET MVC almost 9 years old

- Web API started outside the ASP.NET team

- Completely different landscape

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Why ASP.NET Core?

- A unified story for building web UI and web APIs

- Integration of modern client-side frameworks and development workflows

- A cloud-ready environment-based configuration system

- Built-in dependency injection

- New light-weight and modular HTTP request pipeline

- Ability to host on IIS or self-host in your own process

- Built on .NET Core, which supports true side-by-side app versioning

- Ships entirely as NuGet packages

- New tooling that simplifies modern web development

- Build and run cross-platform ASP.NET apps on Windows, Mac and Linux

- Open source and community focused

How can I build ASP.NET Core apps?

- .NET Core SDK (command line)

- Visual Studio Code (editor)

- Visual Studio 2015 Update 3 (full IDE)

Where can I find more information?

- Main site - www.asp.net

- Docs site - docs.asp.net

- Source code - github.com/aspnet

- Issues - github.com/aspnet/Mvc/issues

Installation

Installation Options

- Mac, Windows, Linux

- Docker container support

- .NET Core vs. .NET Core SDK

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.NET CLI

What is it?

- A new command-line interface for .NET

- Replaces all the DNX/k.exe CLI's

- Used by Visual Studio underneath the covers

- Useful in build scripts, or if you find IDEs abhorrent

What's included?

- new - create new project
- restore - restore dependencies and create lock file
- build - self-explanatory
- run - runs, based on project configuration
- test - runs tests through configured test runner
- pack - creates NuGet package
- publish - publishes package for deployment

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Our First App

- Command-line experience

- Visual Studio Code experience

- Visual Studio 2015 experience

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