

# Building your First API with ASP.NET Core

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## GETTING ACQUAINTED WITH ASP.NET CORE



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ARCHITECT

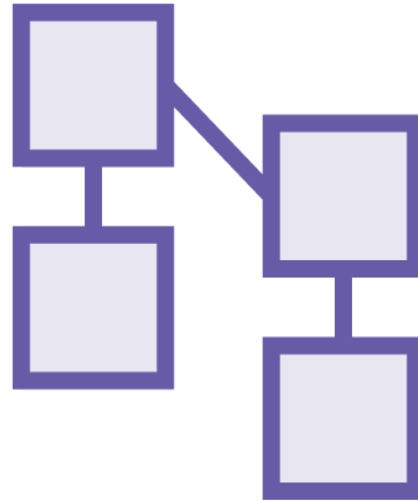
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# It's all About Gradual Improvement



From introducing  
ASP.NET Core...



... to building the API ...



... to using Entity  
Framework Core

# Coming Up



**The Big Picture: ASP.NET Core, .NET Core and .NET Standard**

**Starting an ASP.NET Core Project**

**Request Pipeline and Middleware**



# Tooling



Visual Studio 2015  
Update 3 or  
Community Edition

<https://www.visualstudio.com/free>



Postman

<https://www.getpostman.com/>



A browser of choice



# ASP.NET Core: The Big Picture



**Framework for building modern internet connected applications**

**Open-source**

- <https://www.github.com/aspnet/>

**Cross-platform**

- Runs on Windows, Mac, Linux
- Develop on Windows, Mac, Linux

# ASP.NET Core: The Big Picture



**Rethought from the ground up**

**Granular set of NuGet packages**

**Smaller application surface area**

- Tighter security
- Reduced servicing
- Improved performance



# ASP.NET Core: The Big Picture

## Full .NET Framework

The full framework we know (& love 😊)

## .NET Core

Modular version of .NET Framework  
(which we'll grow to know & love 😊)

Portable across platforms

Subset of .NET Framework

Web: Windows, Linux, Mac

Other: desktop, devices, phone

Implementation of .NET Standard



# ASP.NET Core: The Big Picture

## Full .NET Framework

Target all dependencies we're used to

## .NET Core

Modularity

Small footprint

Performance improvements

Cross-platform

...

**.NET Core is the go-to choice**





# Demo



## Downloading and Installing .NET Core



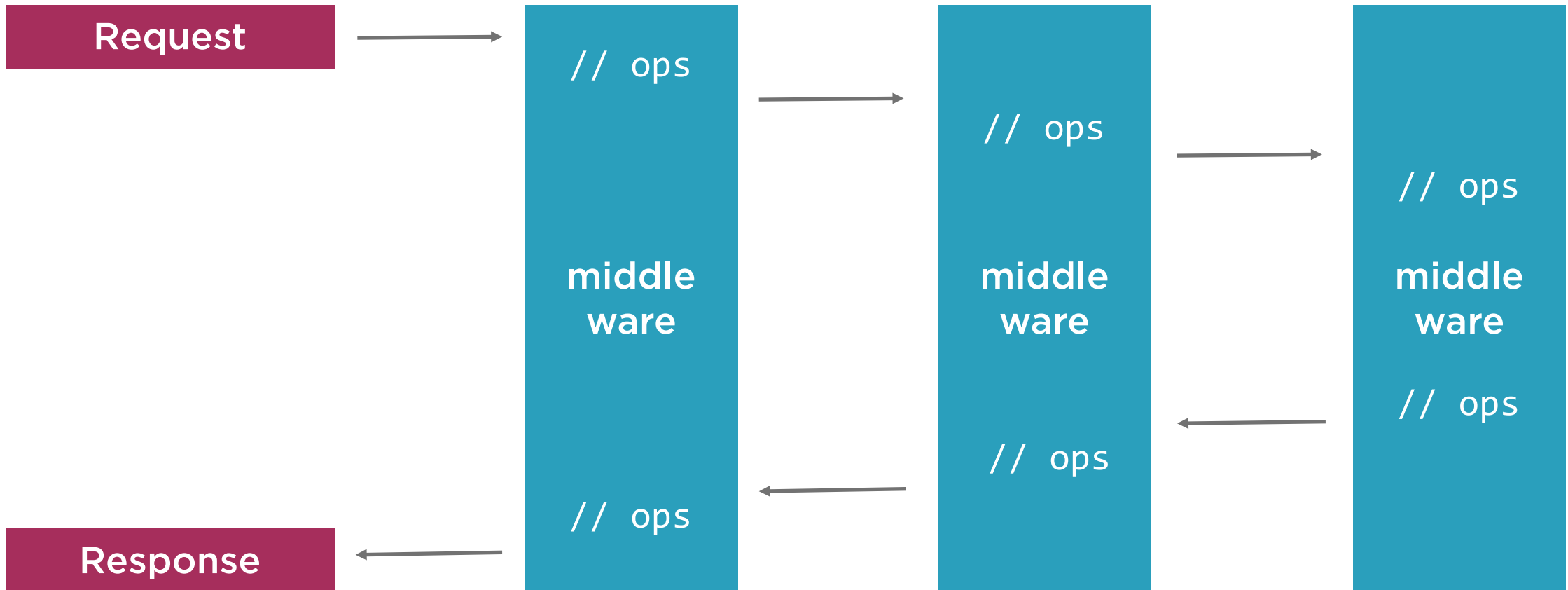
# Demo



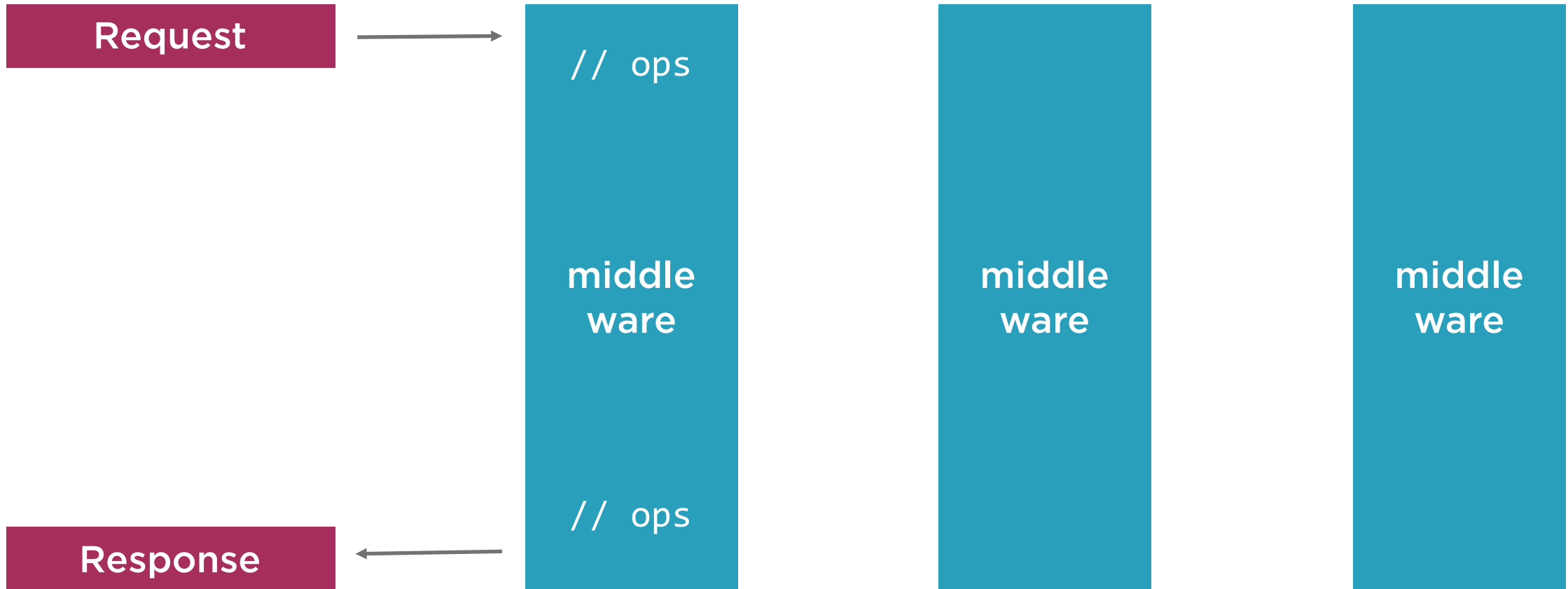
## Starting a new ASP.NET Core Project



# The ASP.NET Core Request Pipeline & Middleware



# The ASP.NET Core Request Pipeline & Middleware



# Demo



## Configuring the ASP.NET Request Pipeline



# Summary



## ASP.NET Core

- Rethought from the ground up
- Tighter security, small footprint, cross-platform, better performance
- Runs on full .NET or .NET Core

## Program class

- Responsible for configuring and running the application

**Startup class: entry point of our web application**

## Summary



**ConfigureServices** is used to add services to the container, and to configure those services

**Configure** is used to specify how an ASP.NET application will respond to individual HTTP requests

Use middleware to configure the HTTP request pipeline

ASP.NET Core supports different environments

