



**TRAILHEAD**  
TECHNOLOGY PARTNERS

Migrate Your  
Legacy **ASP.NET** Projects  
to **ASP.NET Core**

**Incrementally with YARP**



Jonathan "J." Tower

# The Problem



ASP.NET



ASP.NET Core

# Hello. I'm J.

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[bit.ly/th-offer](http://bit.ly/th-offer)

<https://github.com/jonathantower/migrate-with-yarp>

# Agenda

1. Migration approaches & strangler fig pattern
2. What is a reverse proxy
3. How YARP works
4. .NET Upgrade Assistant demo
5. YARP migration demo
6. System.Web Adapters demo

# Key Terms



# Key Terms

ASP.NET

.NET Framework

ASP.NET Core  
(v1.0 - 2.2)

.NET Framework

.NET Core

ASP.NET Core  
(v3.0+)

.NET Core

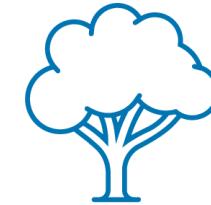
# Migration Approaches



Big Bang



Evolution



Strangler Fig

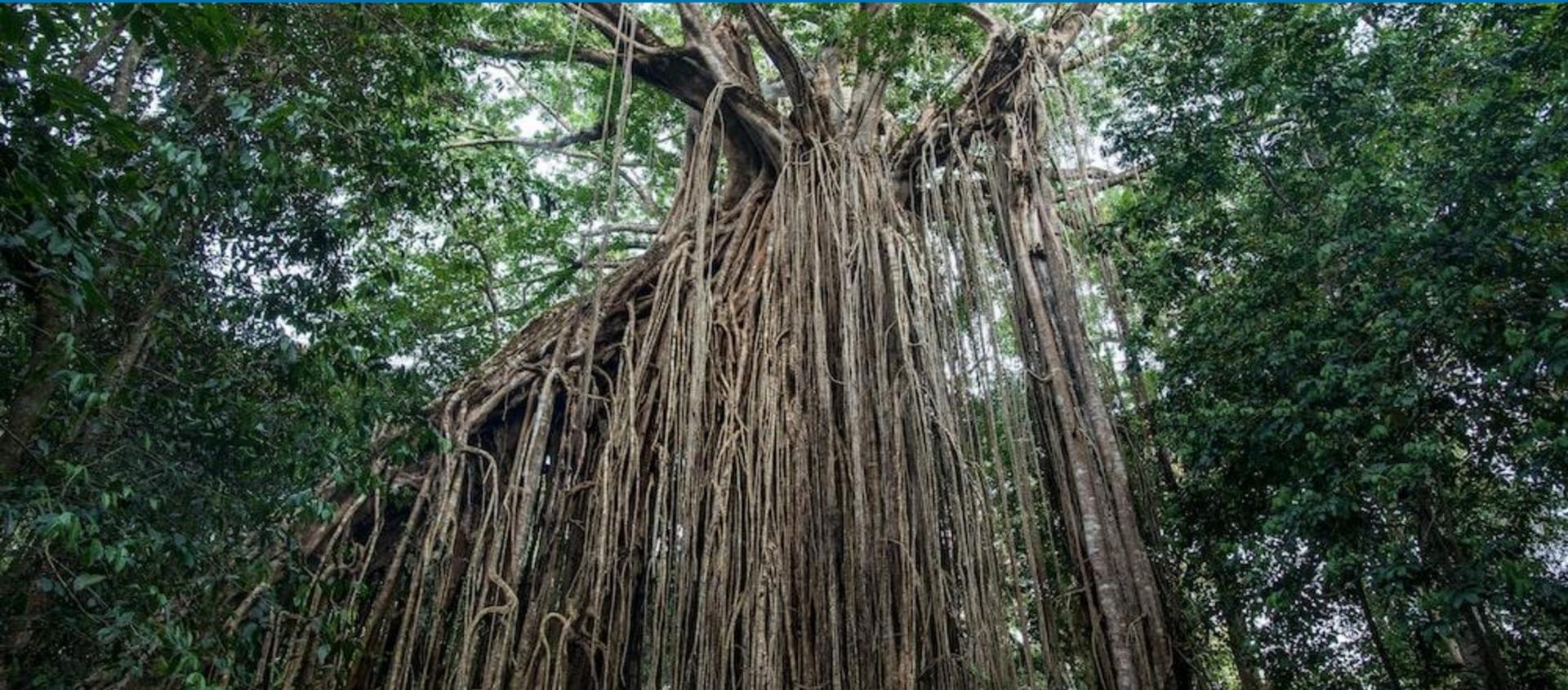
# Big Bang Approach



# Evolutionary Approach



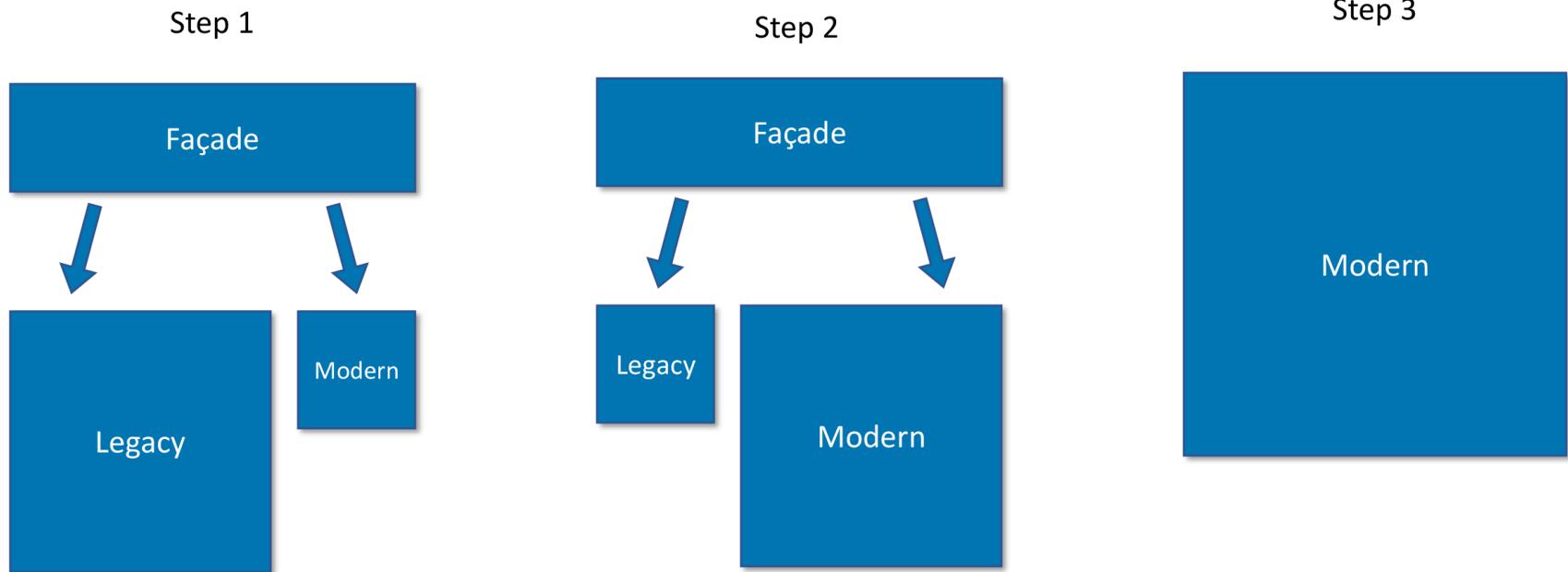
# Strangler Fig Approach



# Strangler Fig



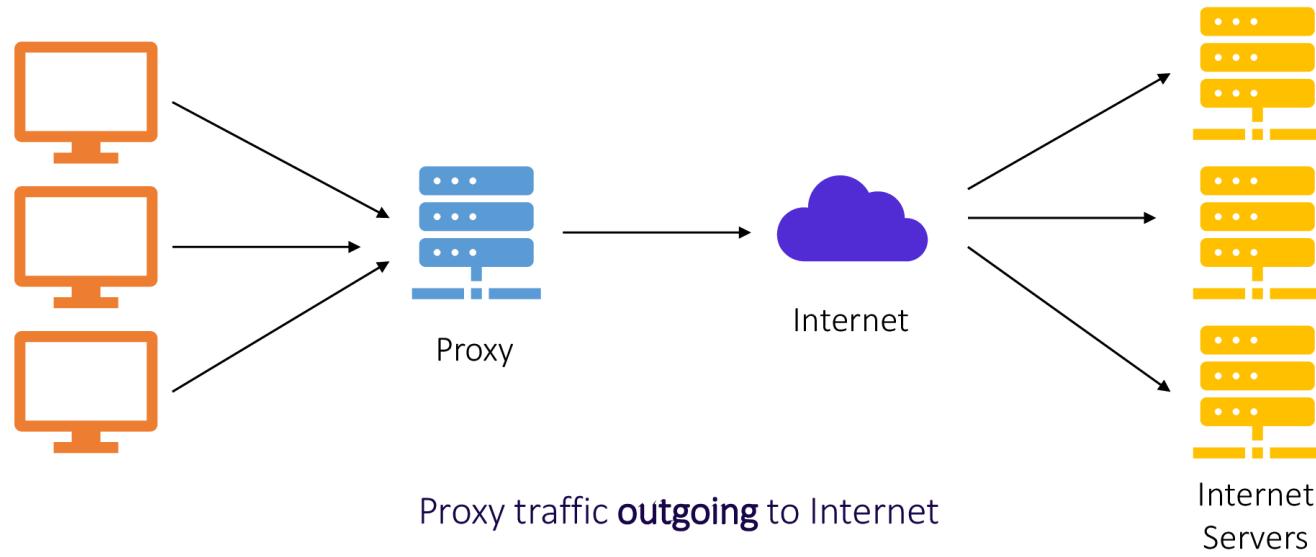
# Strangler Fig Pattern



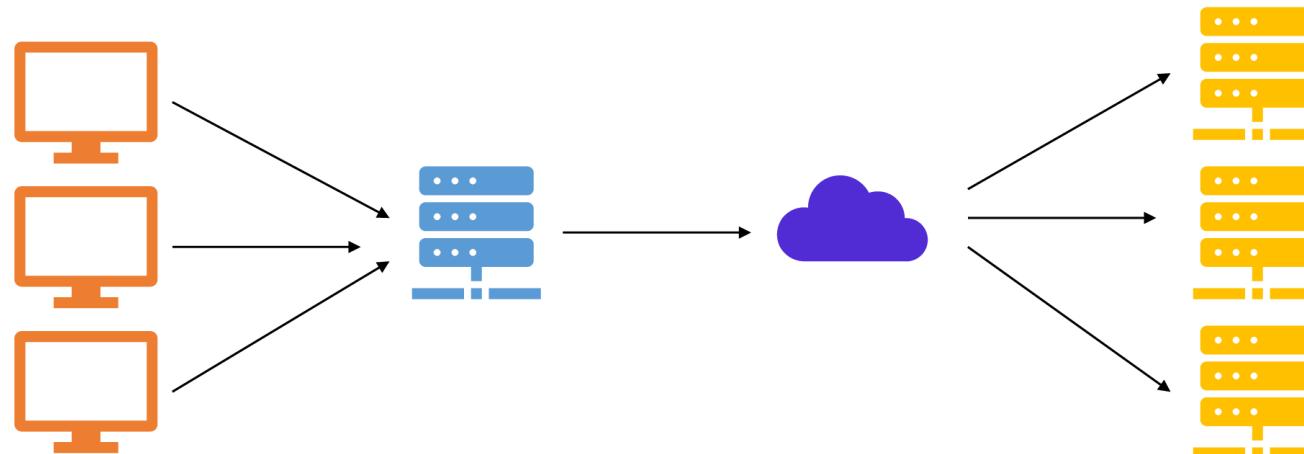


# What is A Reverse Proxy?

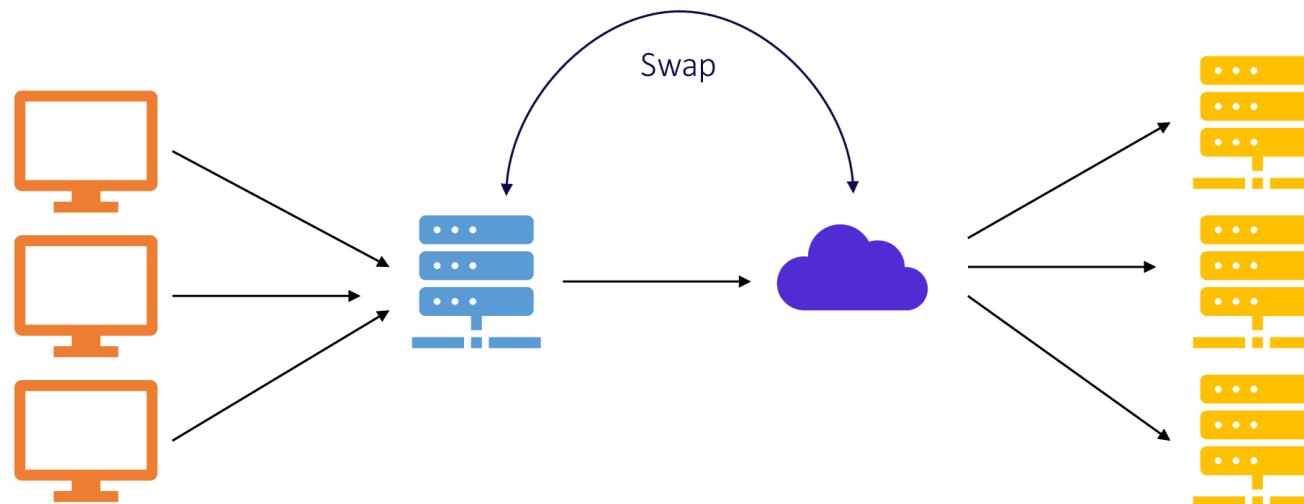
# What is a Regular (Forward) Proxy?



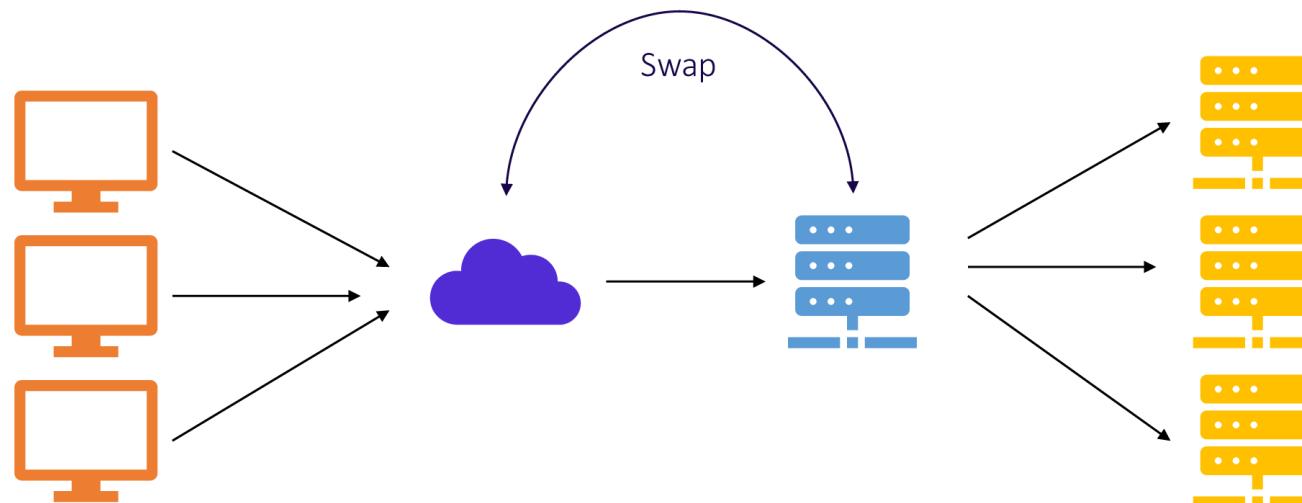
# What is a REVERSE Proxy?



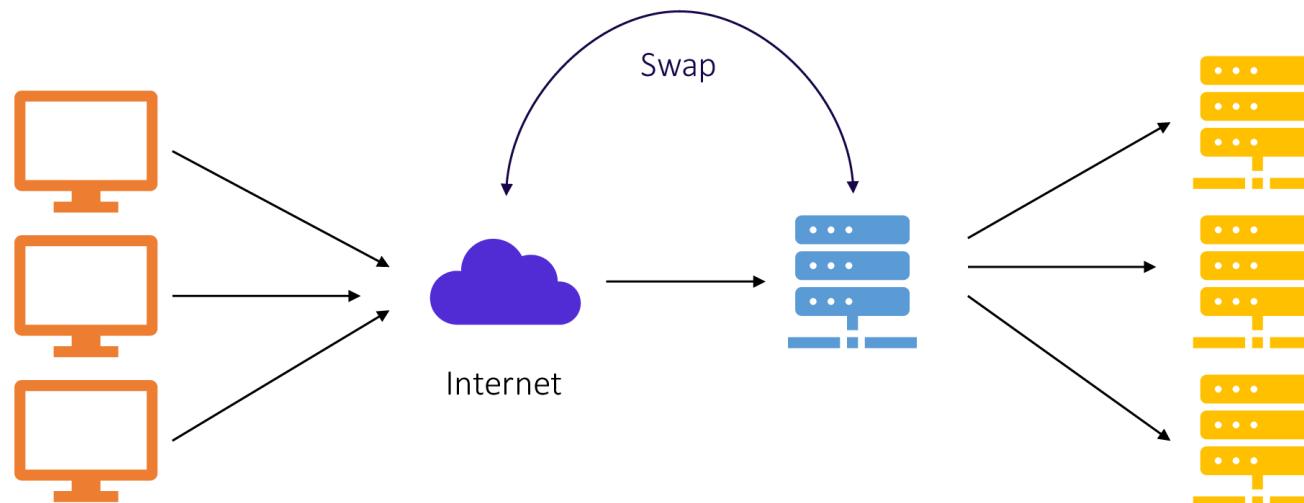
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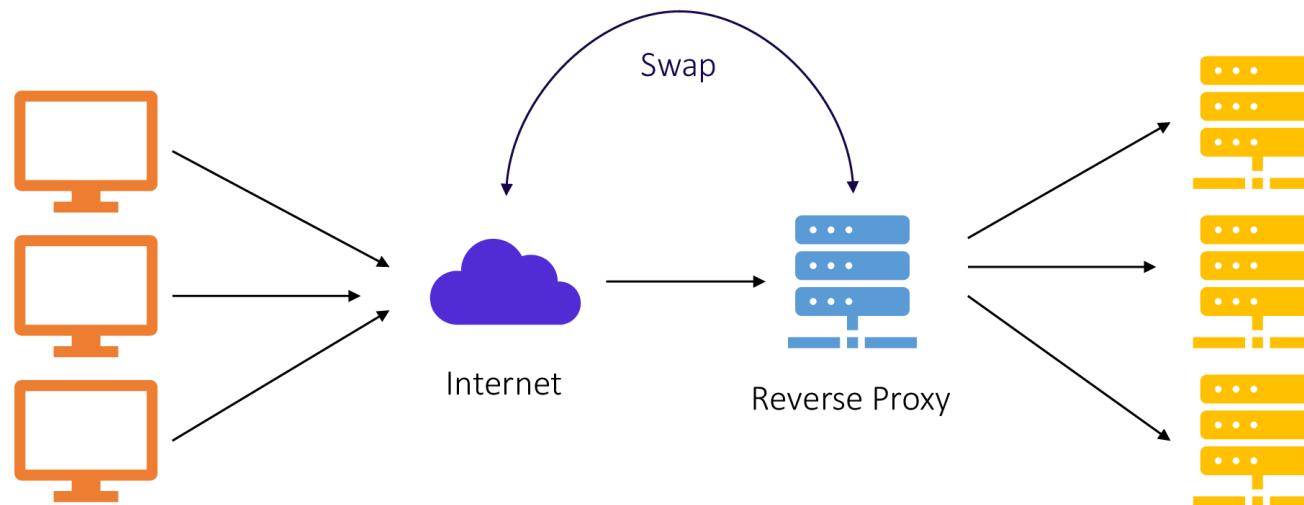
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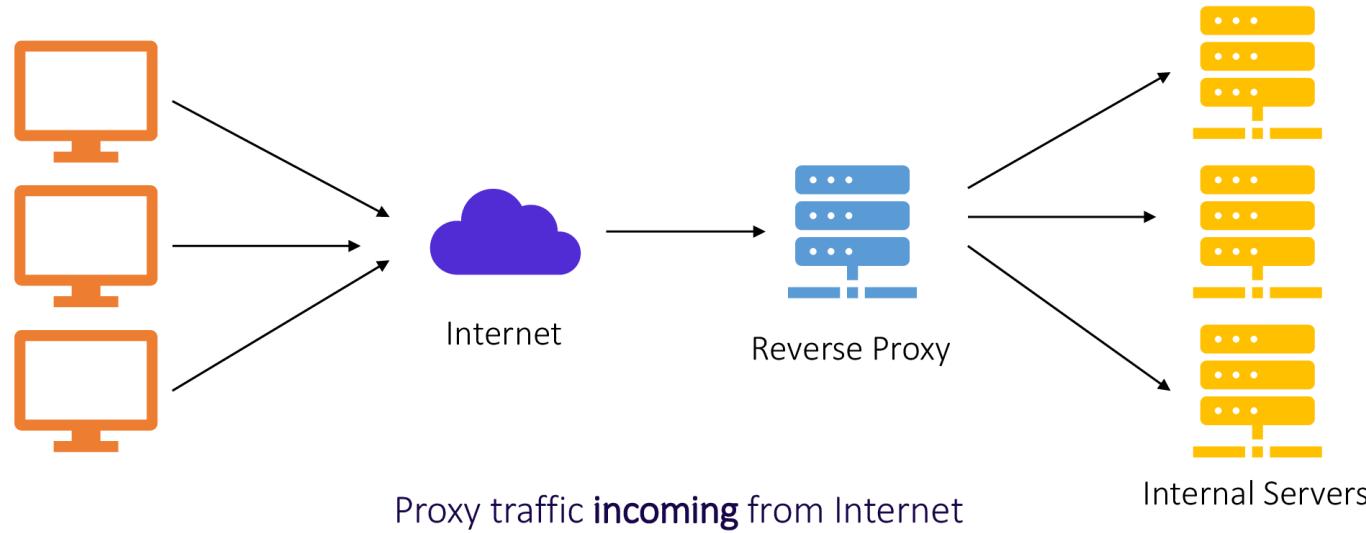
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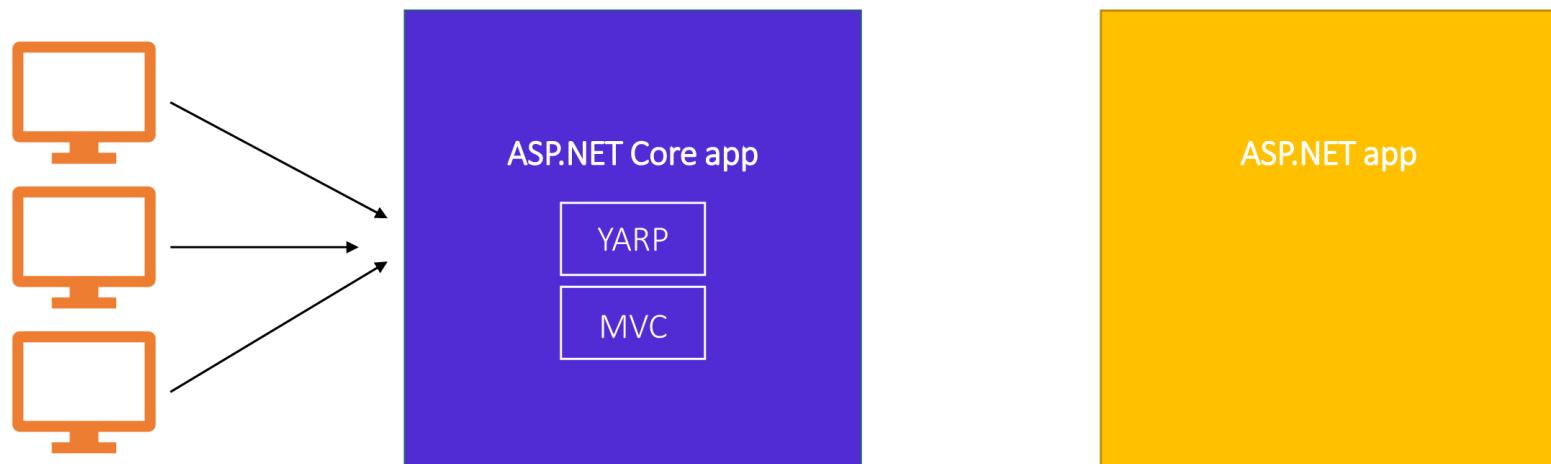
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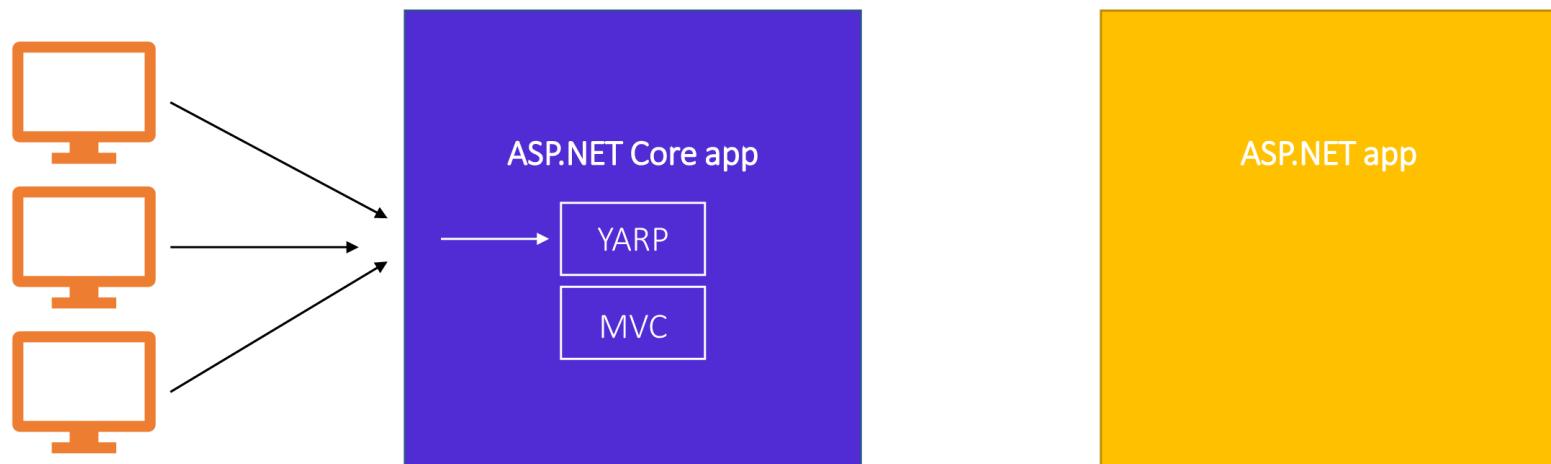


# How YARP Works

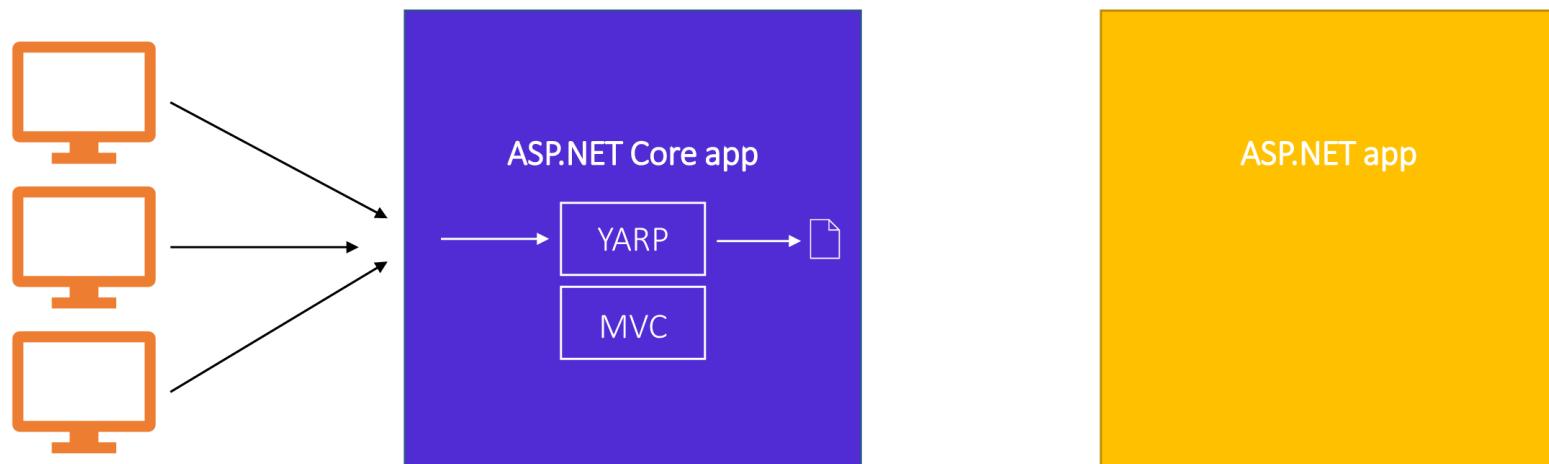
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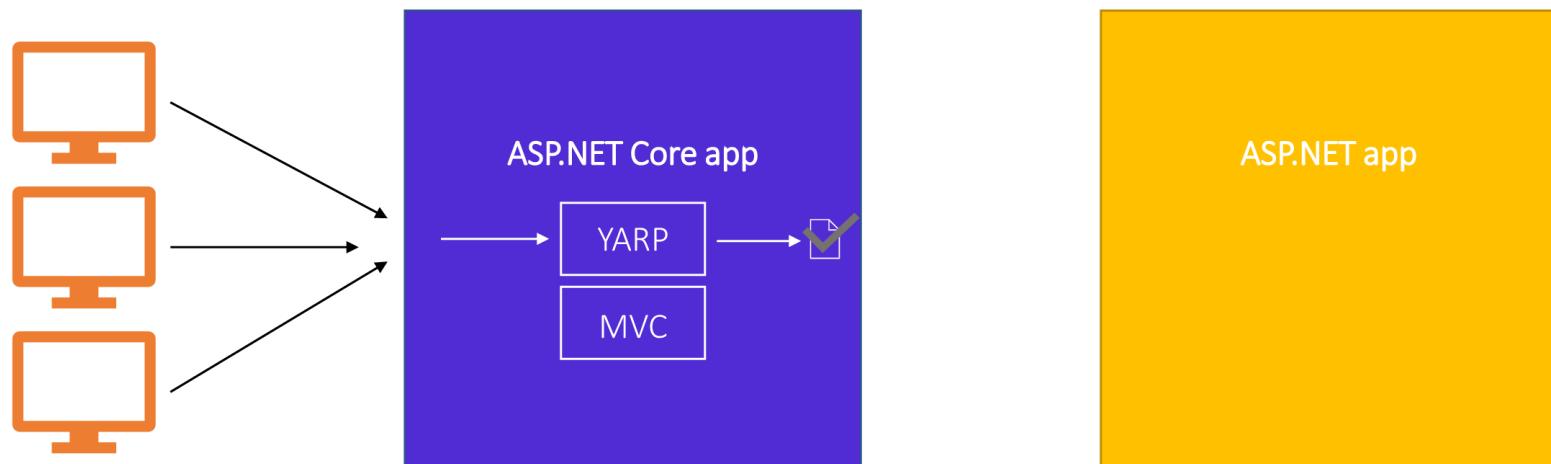
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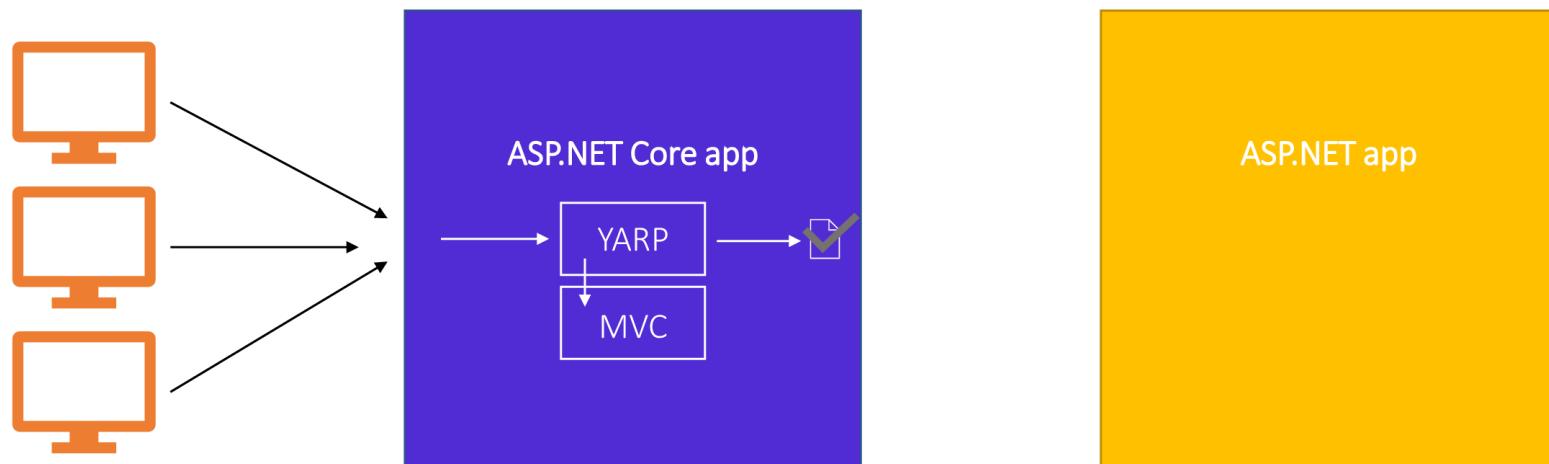
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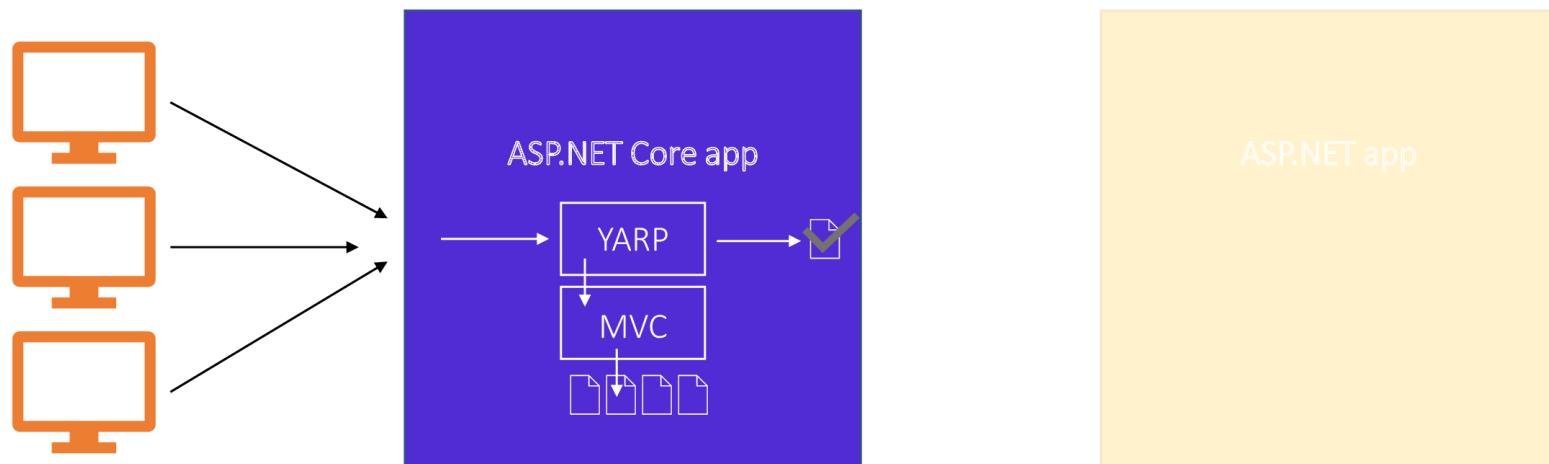
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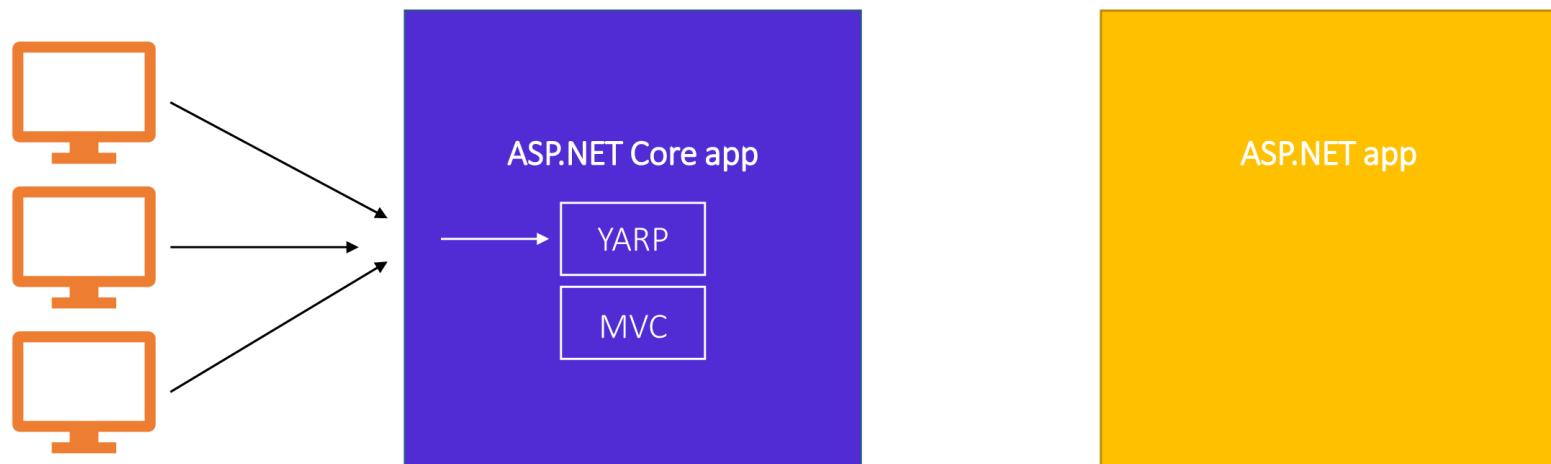
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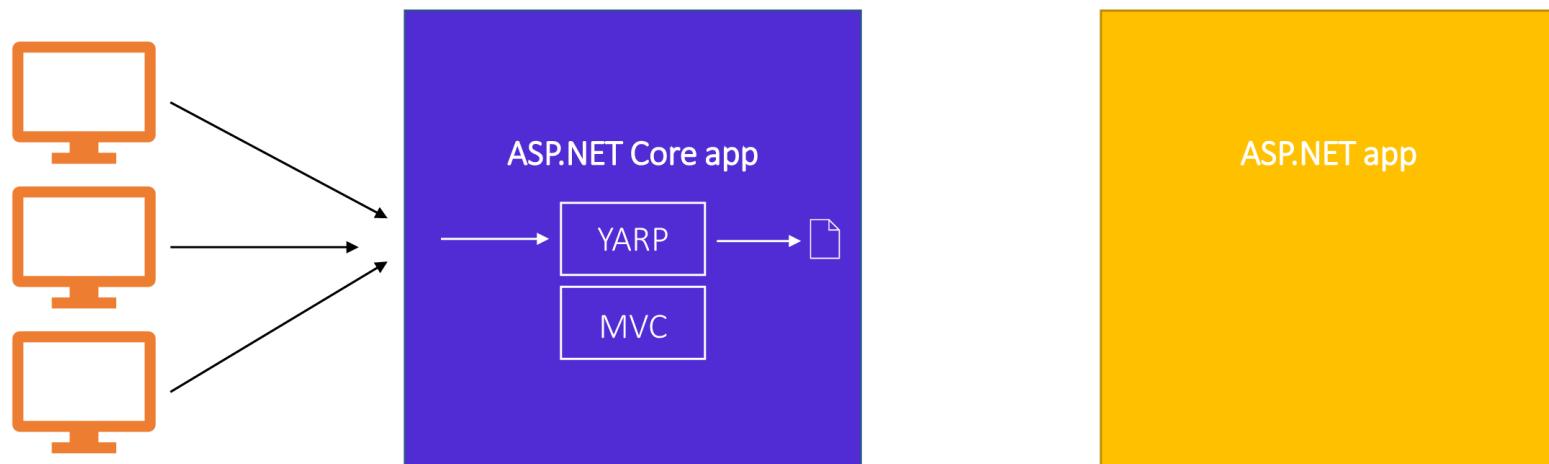
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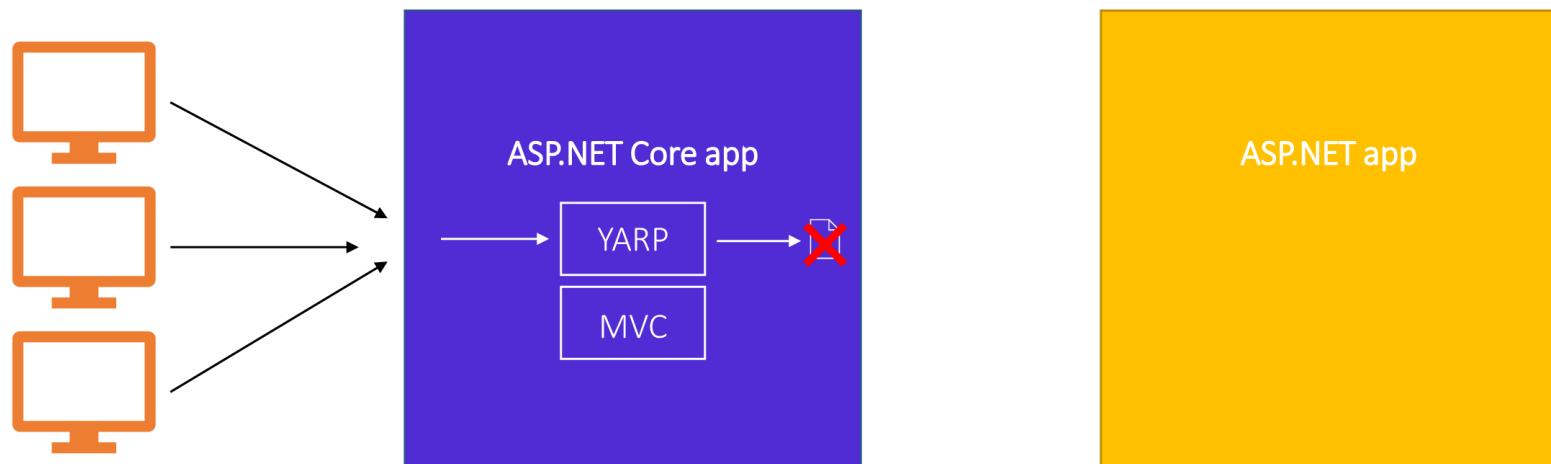
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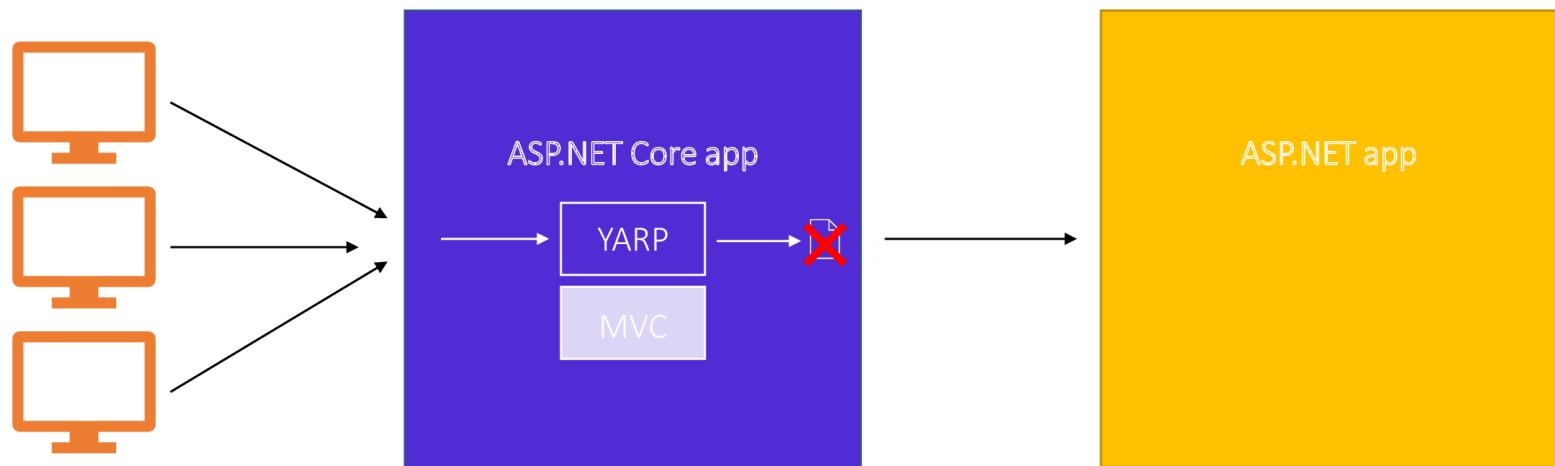
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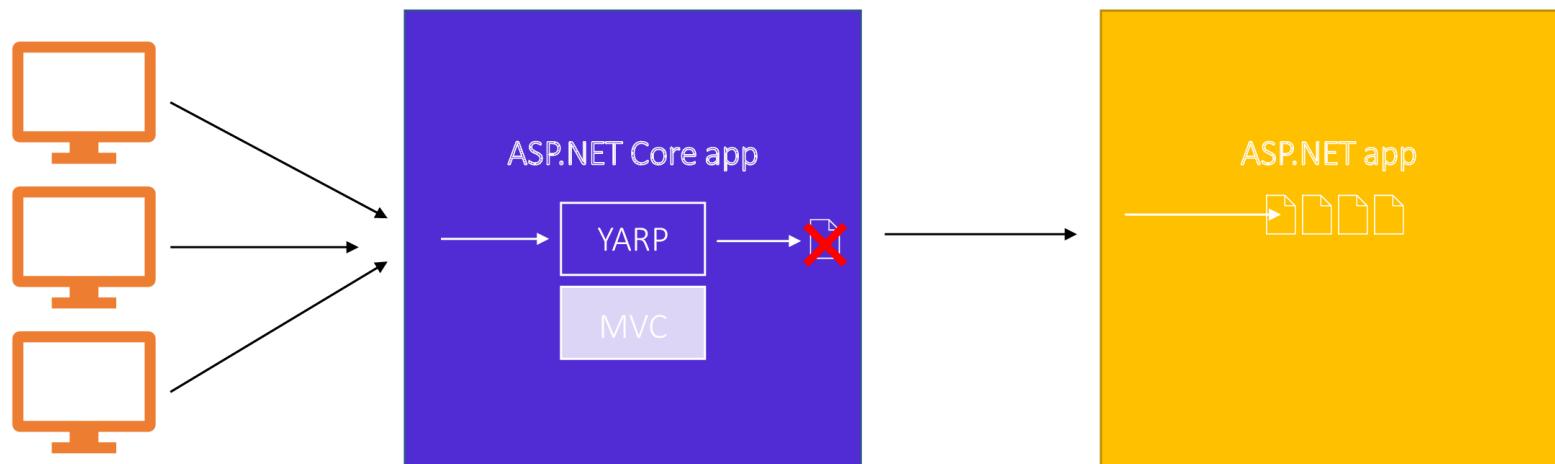
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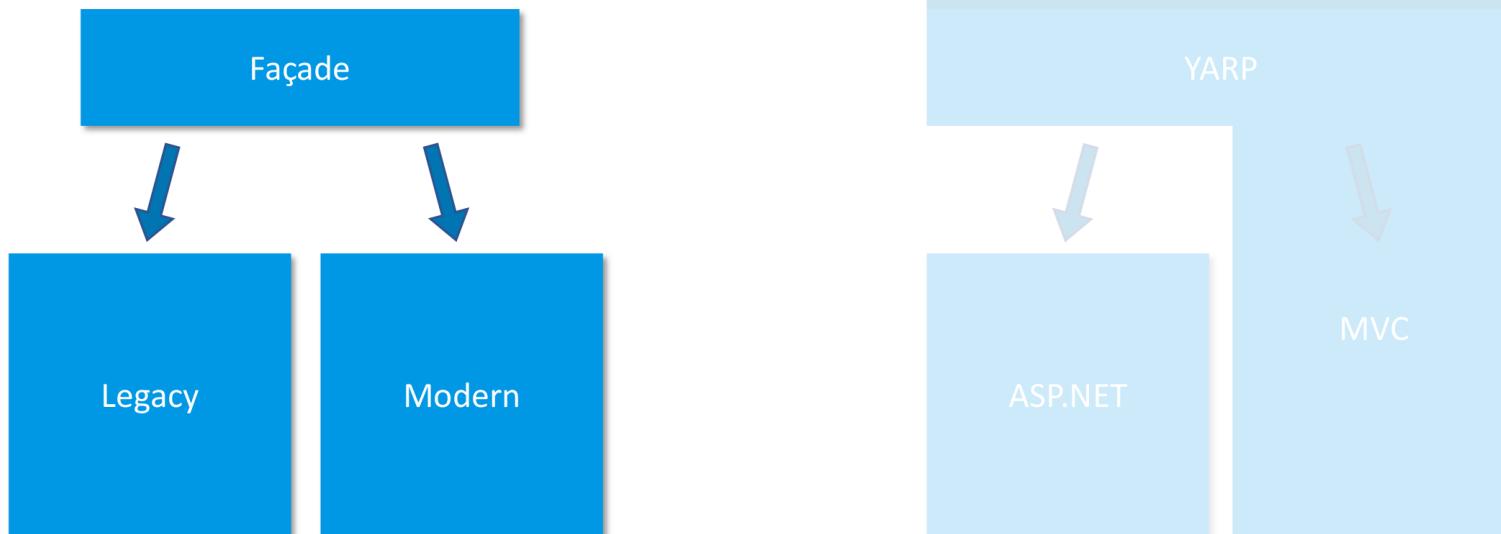
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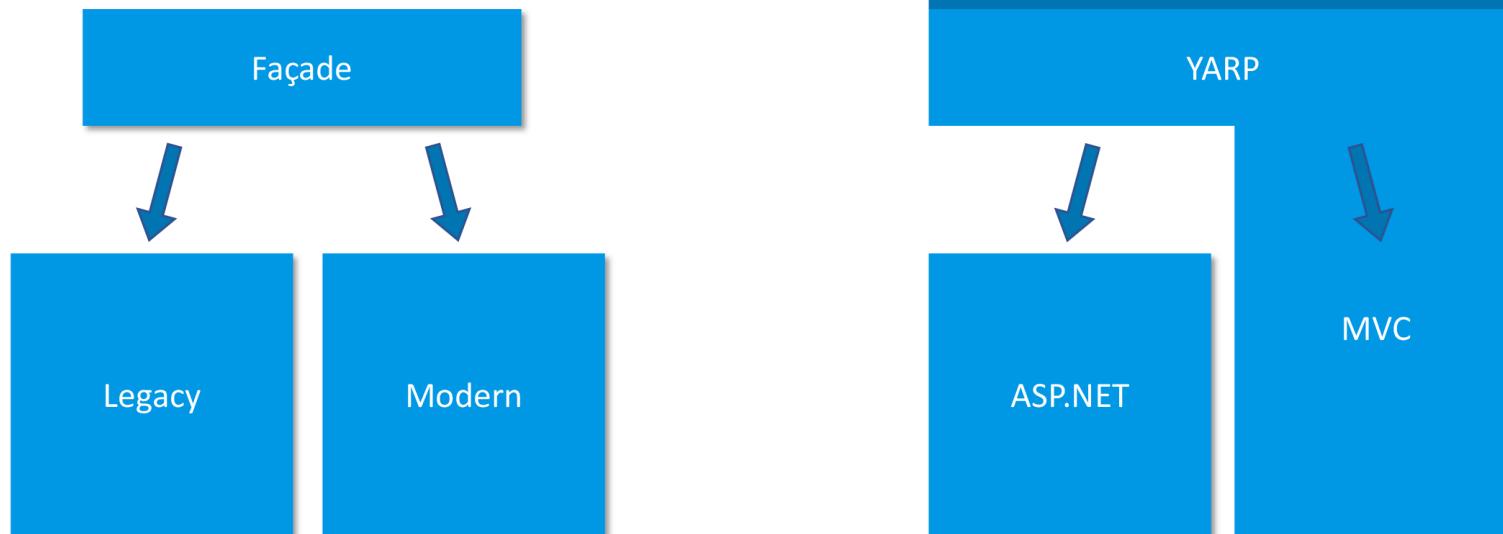
# How YARP Works



# Strangler Fig with YARP



# Strangler Fig with YARP



A faint, grayscale topographic map serves as the background for the title area. It features contour lines of varying elevations across a hilly terrain, with dashed grid lines overlaid.

# .NET Upgrade Assistant

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## Supported .NET upgrades:

- .NET Framework to .NET 6+
- .NET Core to .NET 6+
- Any .NET version to .NET 6+ above current version
- Azure Functions v1, v2, v3 to v4 isolated (targeting net6.0 or net7.0)
- Xamarin.Forms to MAUI\*

# .NET Upgrade Assistant

## Supported project types:

- ASP.NET
- Azure Functions
- WPF
- WinForms
- Class libraries
- Console
- Xamarin.Forms
- .NET MAUI
- UWP

## Coming soon:

- WCF to WCF Core upgrade



# .NET Upgrade Assistant + YARP Demo

A faint, grayscale topographic map serves as the background for the title area. It features contour lines, dashed grid lines, and several small black dots and crosses, suggesting survey points or specific locations.

# System.Web Adapters

# System.Web Adapters

## Major Features

1. Subset of `System.Web.dll` API shims
2. Shared **authentication** support
3. Shared **session** state

## Usage

- `Microsoft.AspNetCore.SystemWebAdapters` in both apps
- `Microsoft.AspNetCore.SystemWebAdapters.CoreServices` in Core app
- `Microsoft.AspNetCore.SystemWebAdapters.FrameworkServices` in Framework app

# Status of YARP

## Released

- YARP - v2.0.1
- System.WebAdapters - v1.2.0

## Preview

- .NET Upgrade Assistant - v0.5.33

# Learn More

## YARP

- <https://github.com/microsoft/reverse-proxy>

## System.Web Adapters

- <https://github.com/dotnet/systemweb-adapters>

## .NET Upgrade Assistant

- <https://dotnet.microsoft.com/en-us/platform/upgrade-assistant>

# Thank You! Questions?

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This session was a valuable  
use of my time.

Almost...

I got some value out of  
attending this session

Nope.

This session was of little or  
no value to me.

Leave a constructive comment

Submit your Evaluation

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