



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

FREE
Consultation

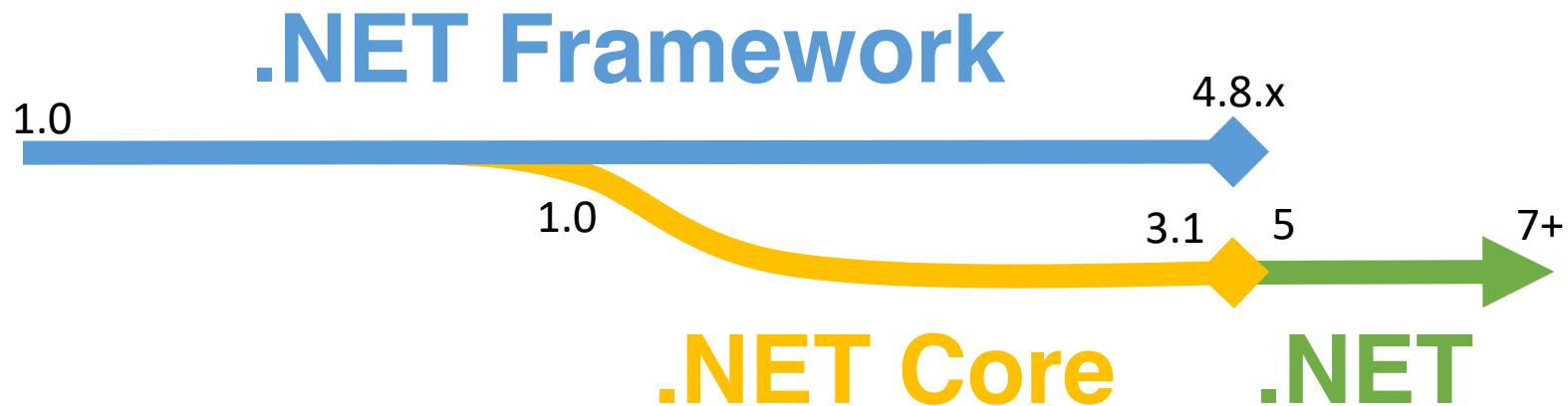


bit.ly/th-offer

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

Migration Approaches



Big Bang



Evolution



Strangler Fig

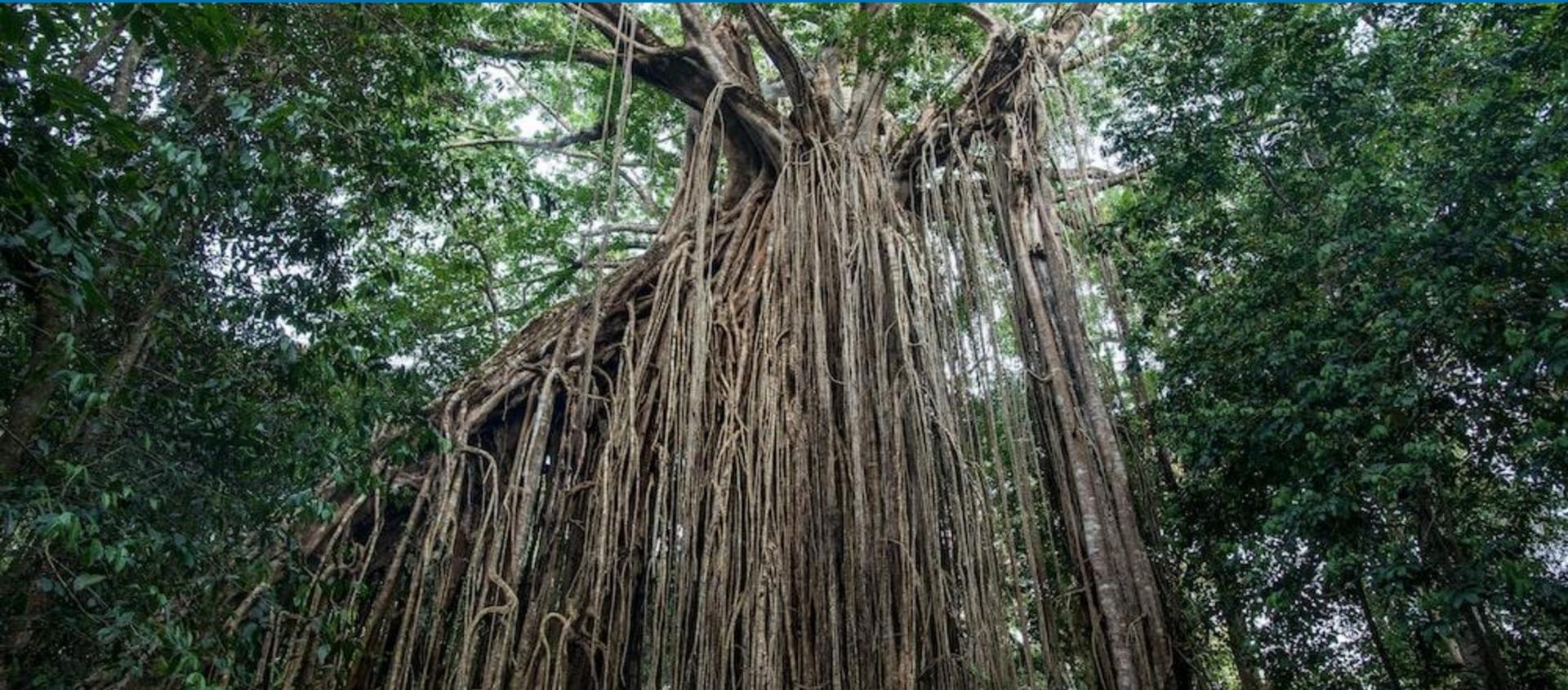
Big Bang Approach



Evolutionary Approach



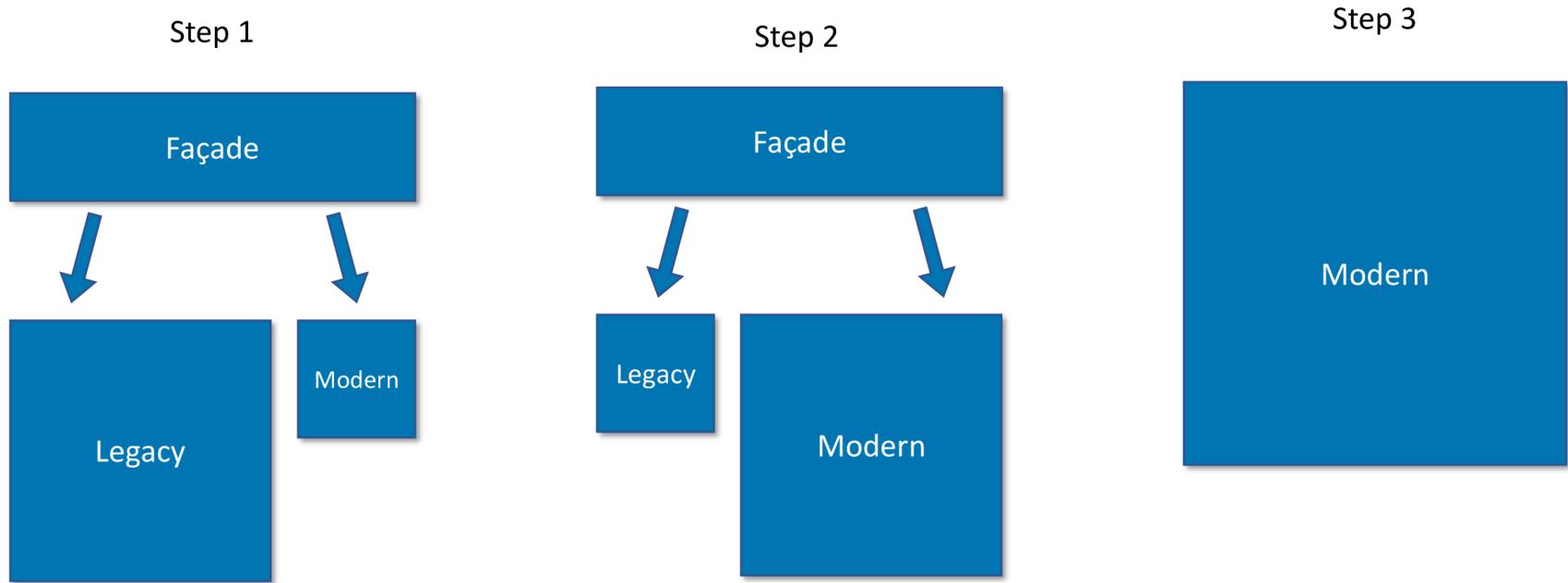
Strangler Fig Approach



Strangler Fig



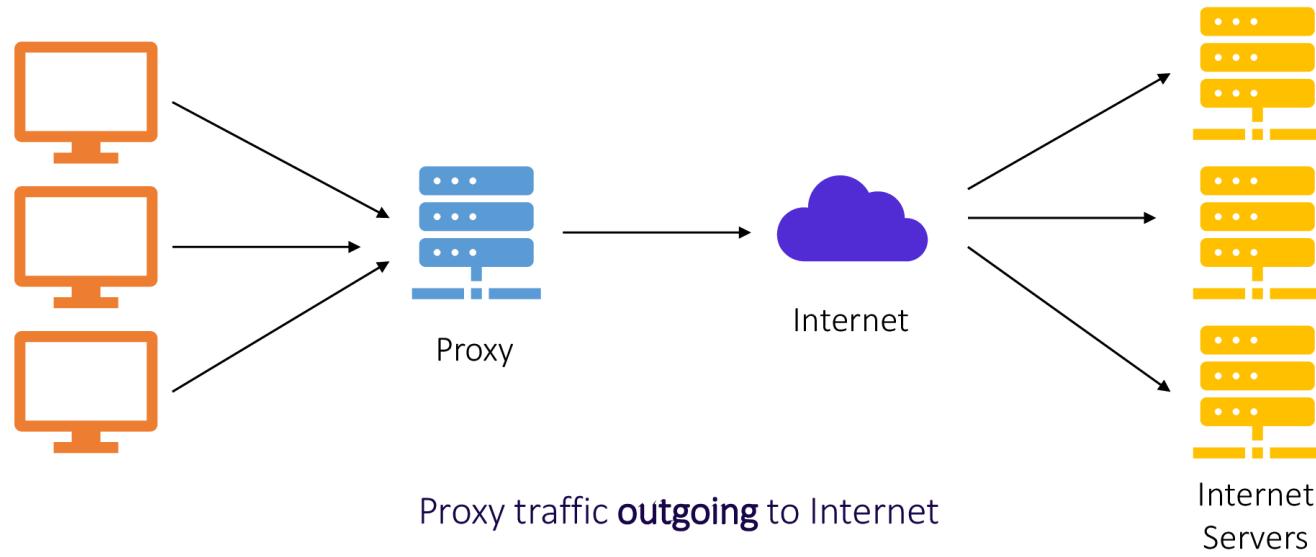
Strangler Fig Pattern



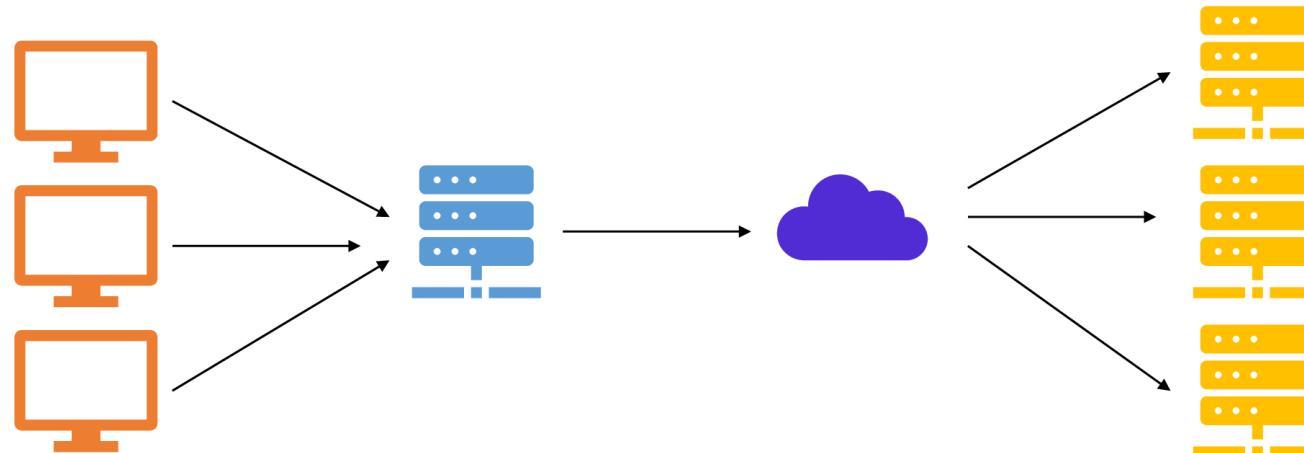


What is A Reverse Proxy?

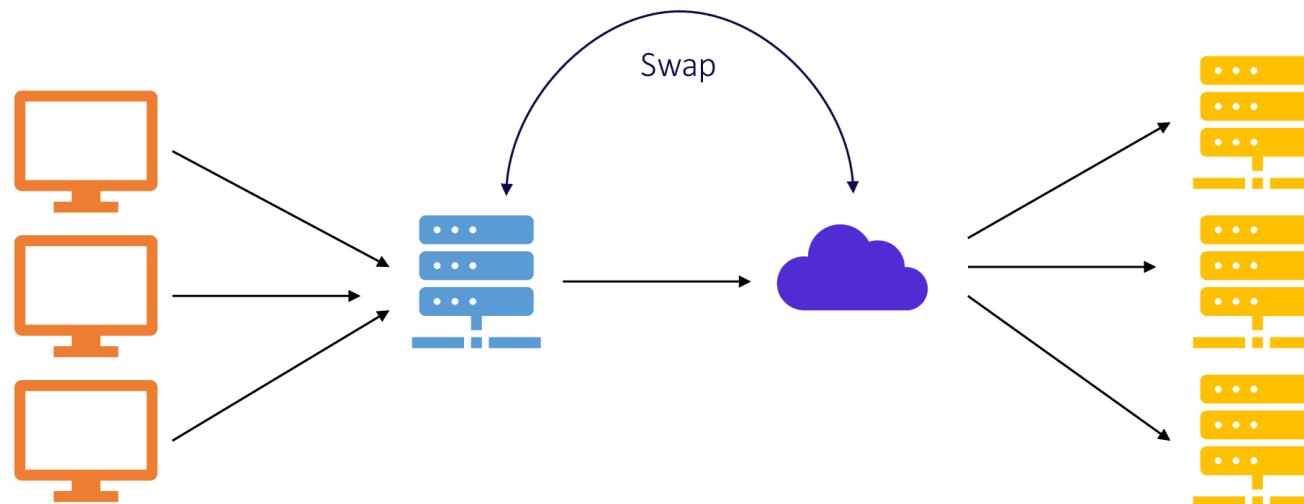
What is a Regular (Forward) Proxy?



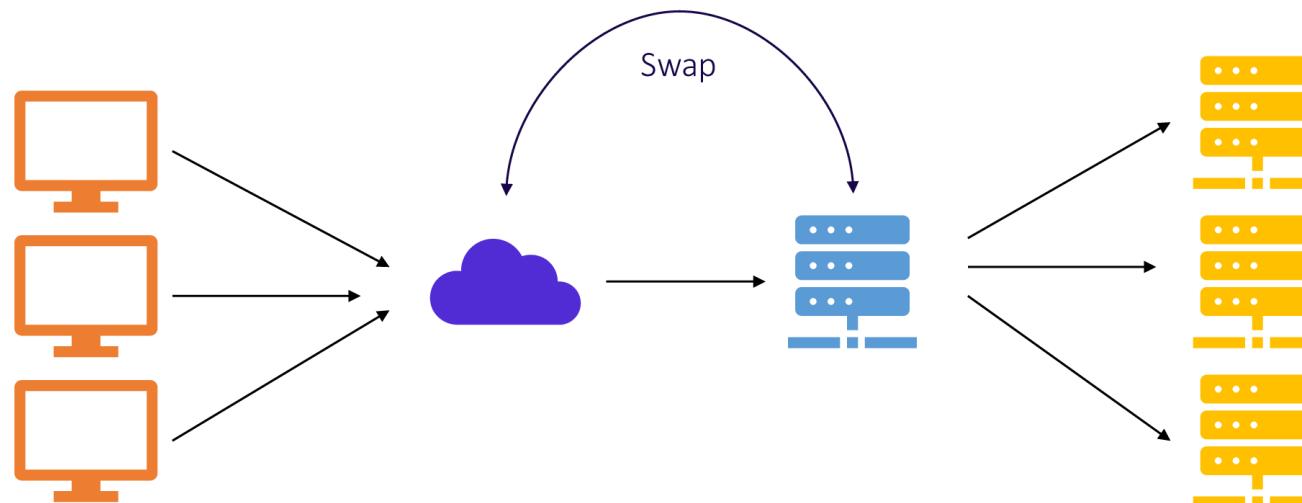
What is a REVERSE Proxy?



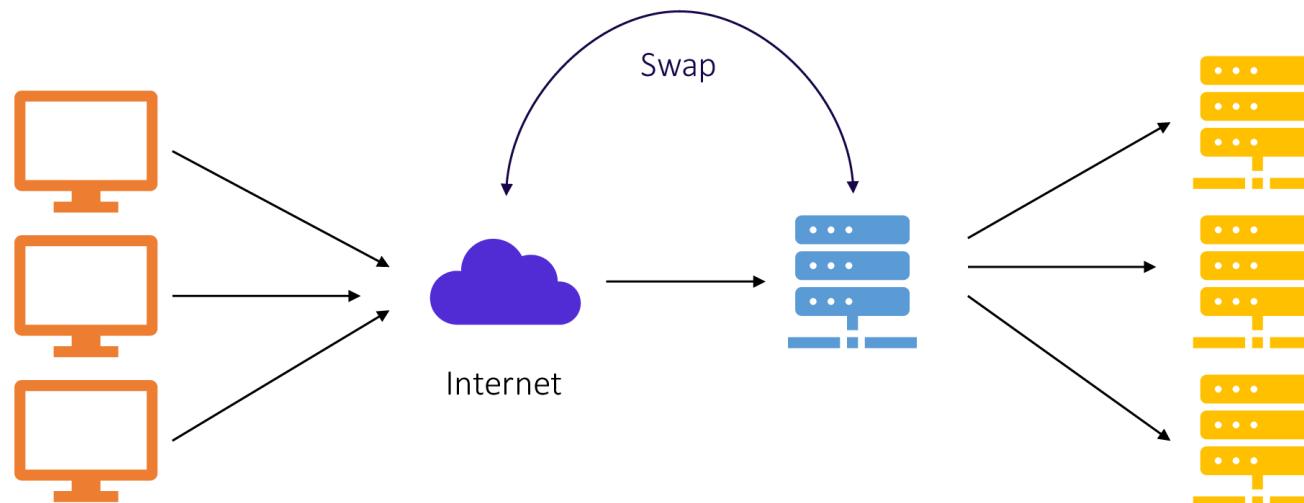
What is a REVERSE Proxy?



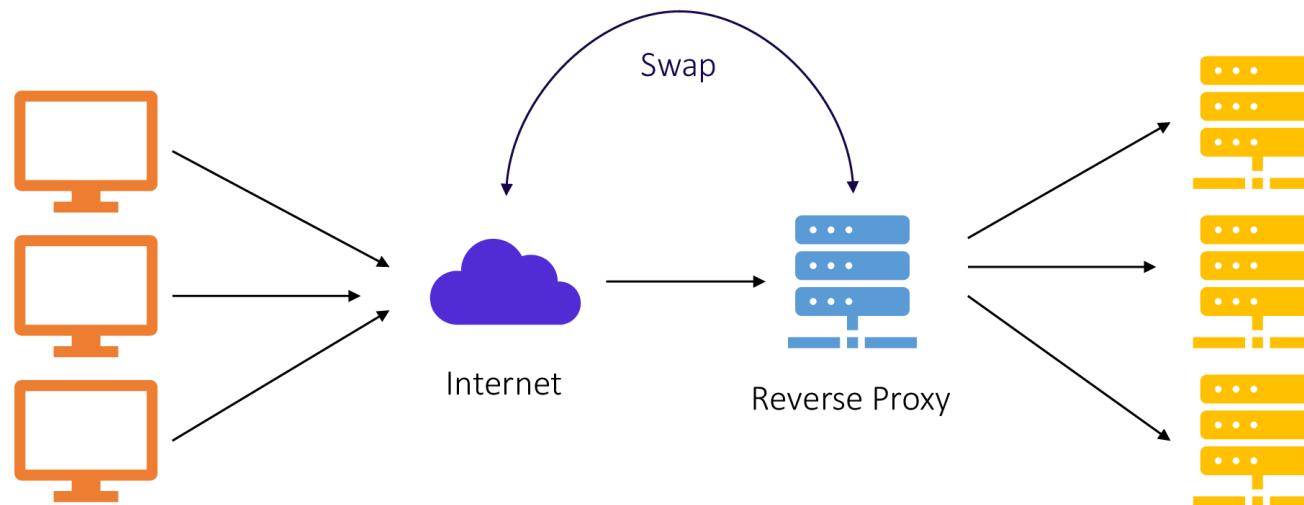
What is a REVERSE Proxy?



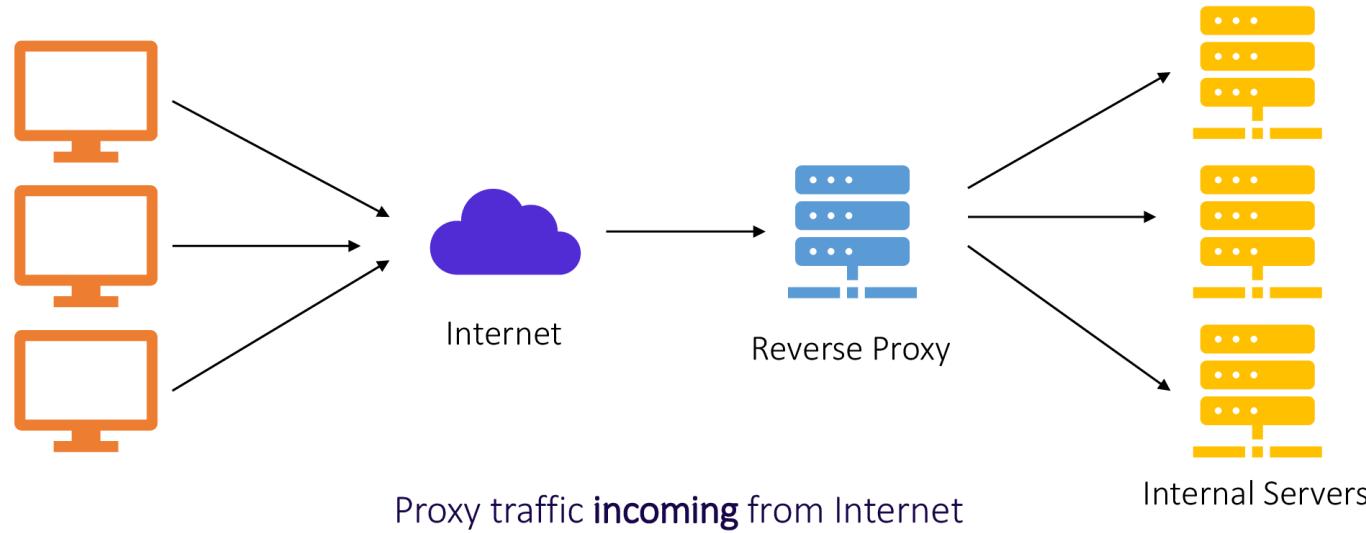
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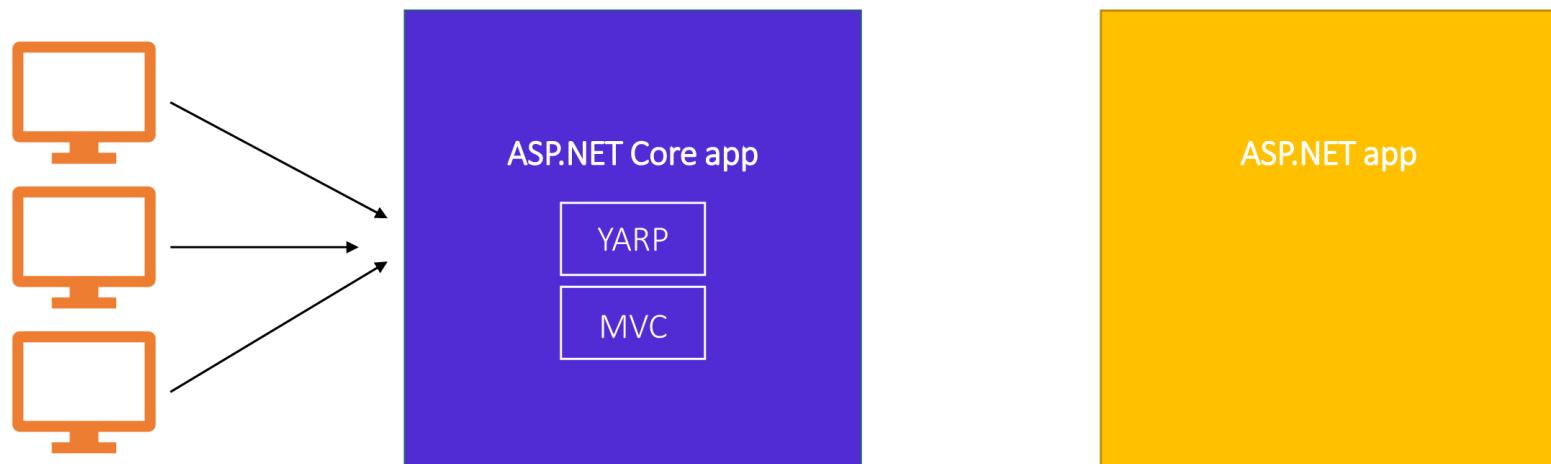
What is a REVERSE Proxy?



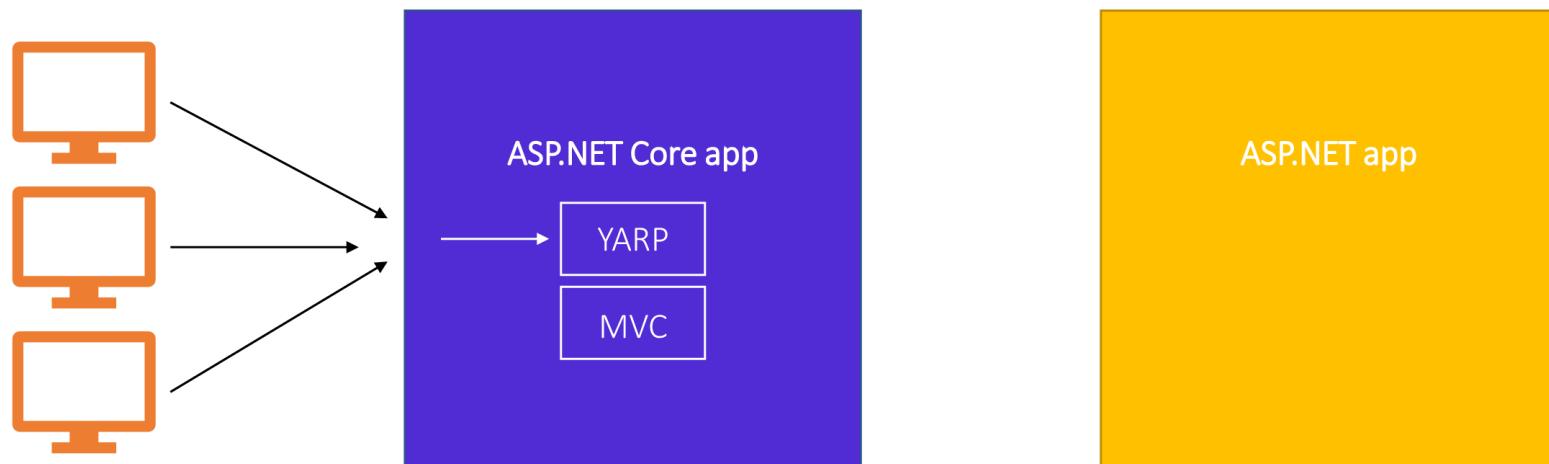


How YARP Works

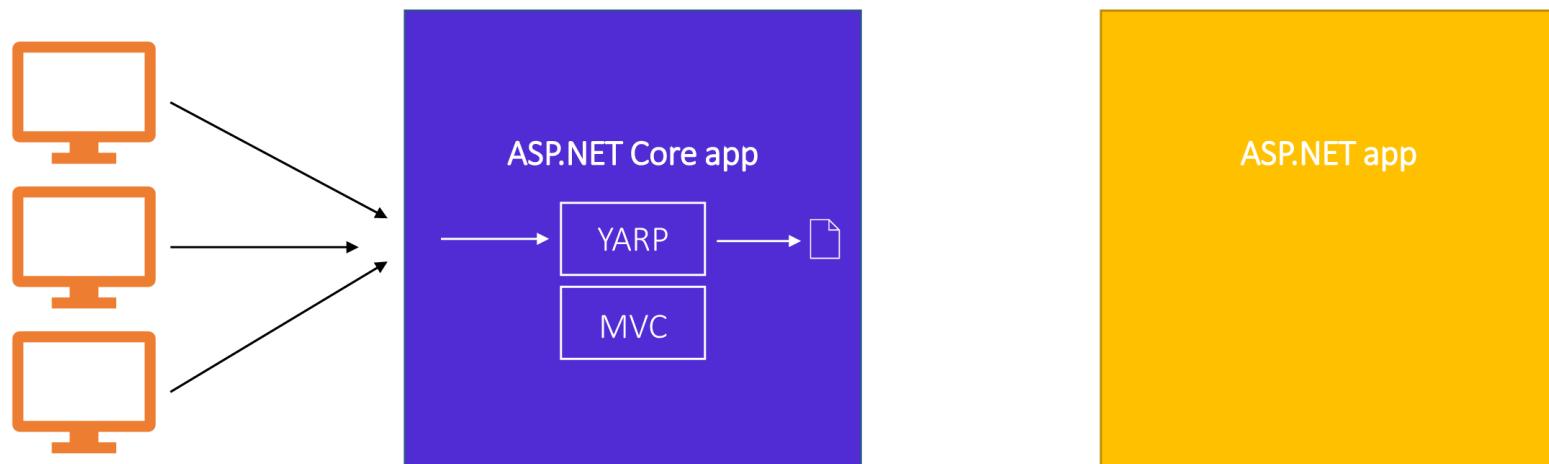
How YARP Works



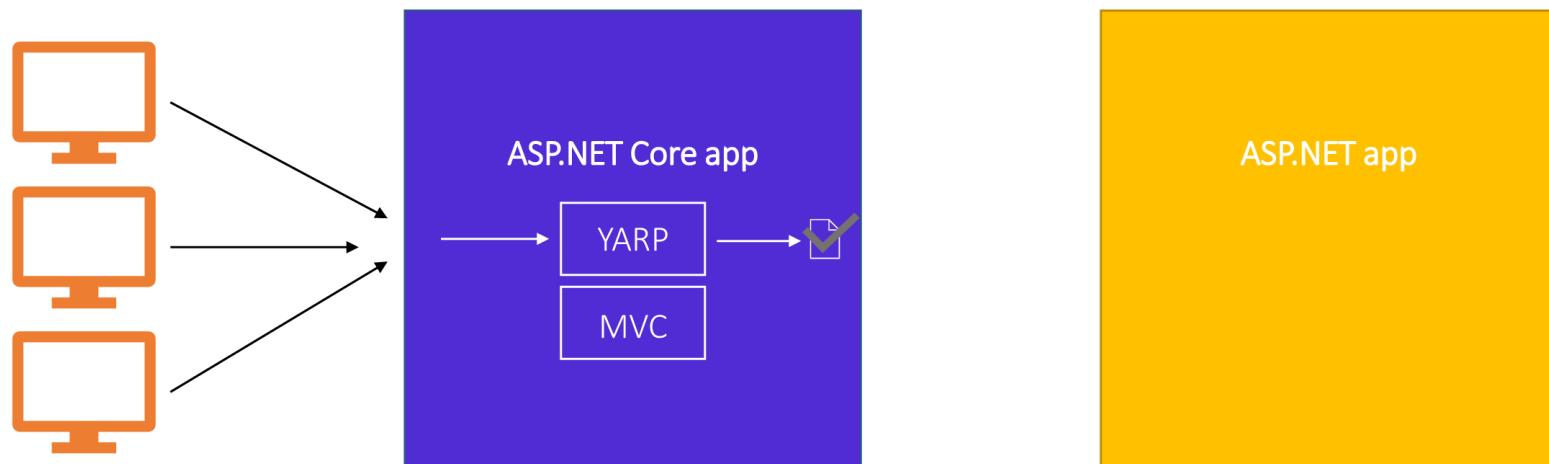
How YARP Works



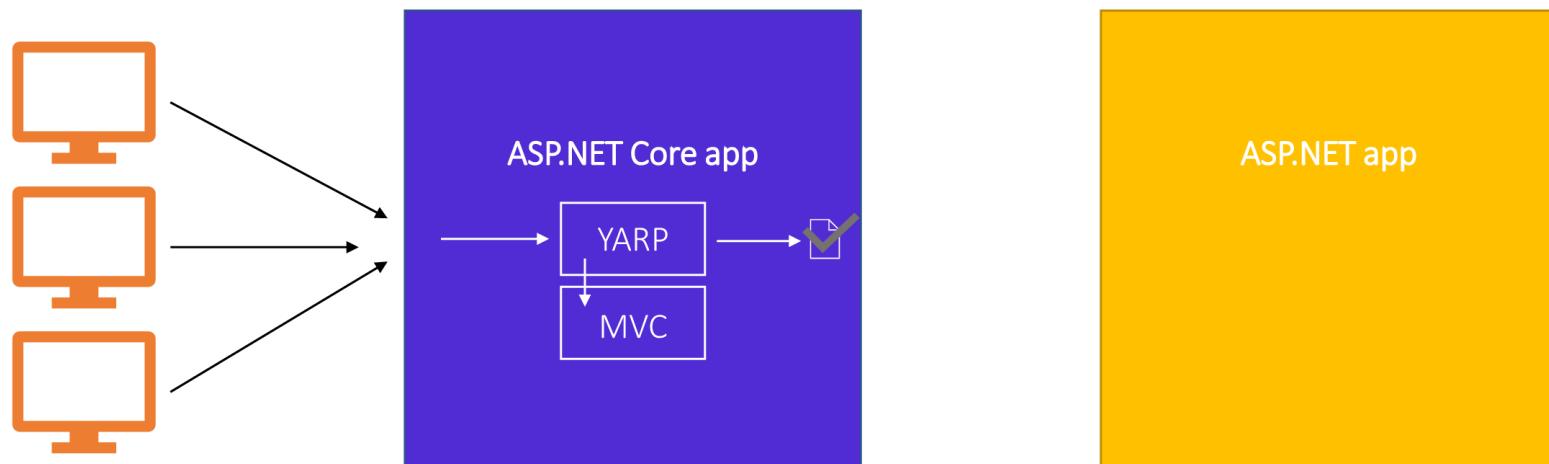
How YARP Works



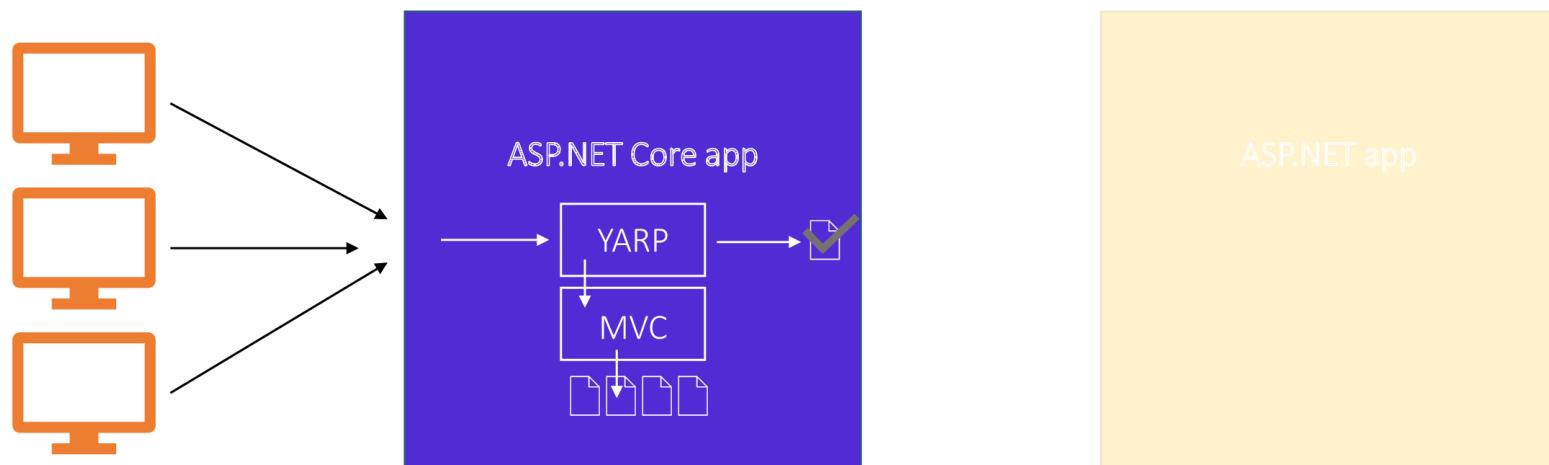
How YARP Works



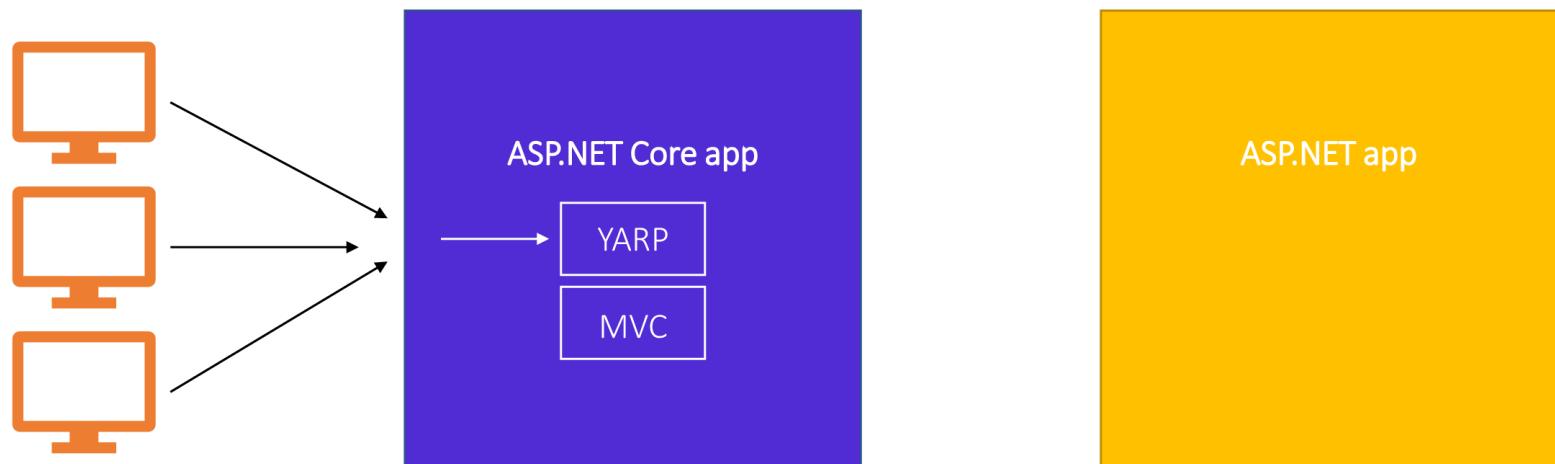
How YARP Works



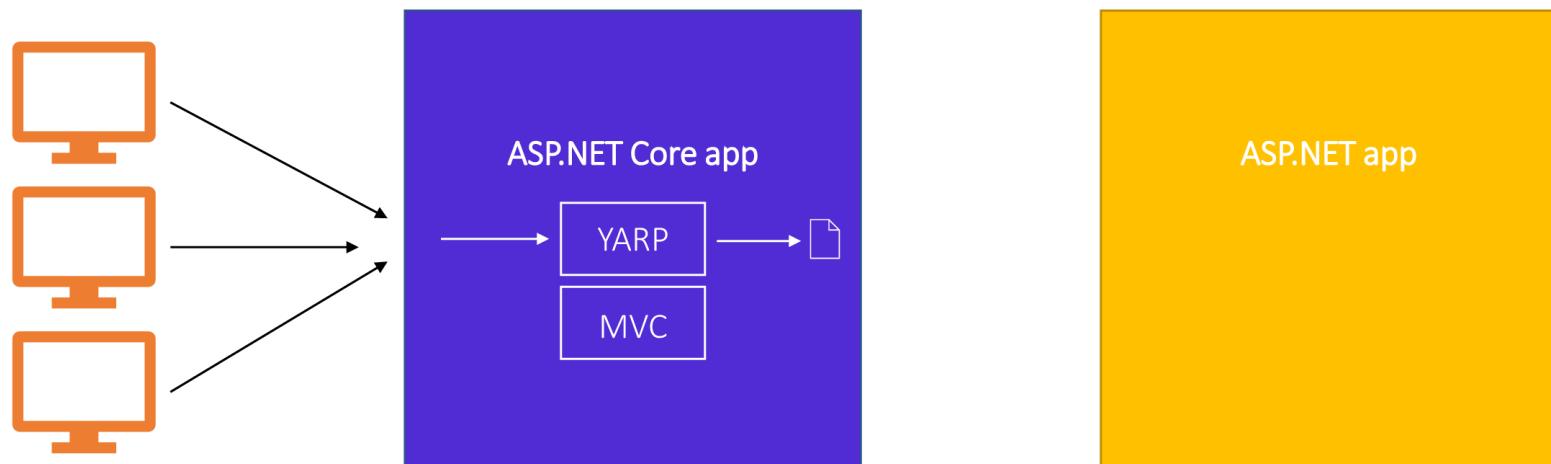
How YARP Works



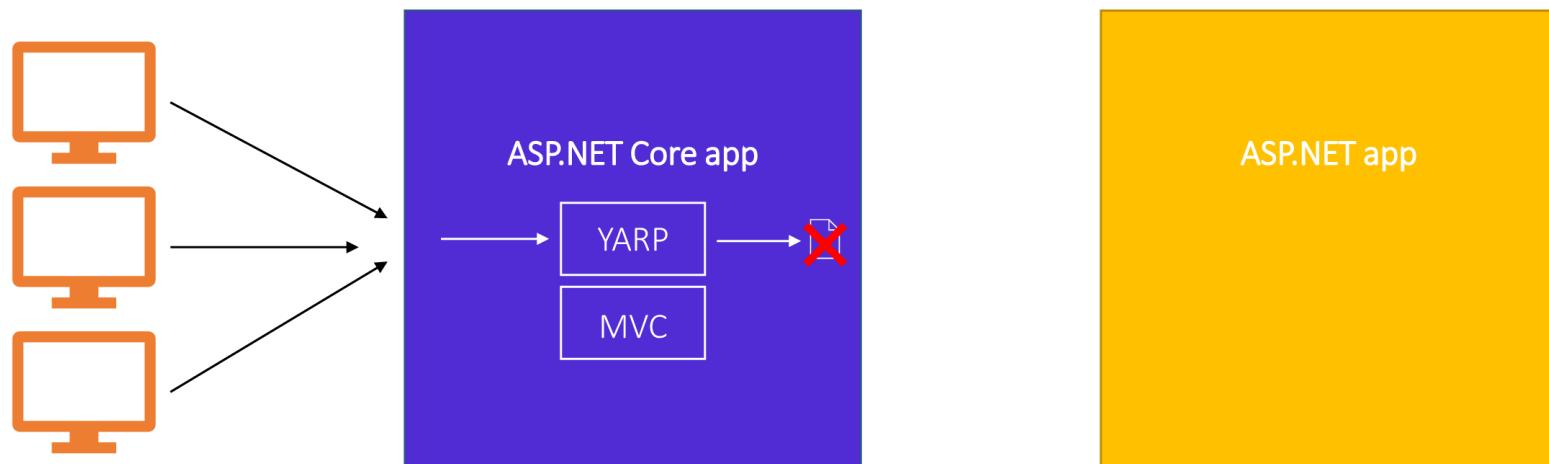
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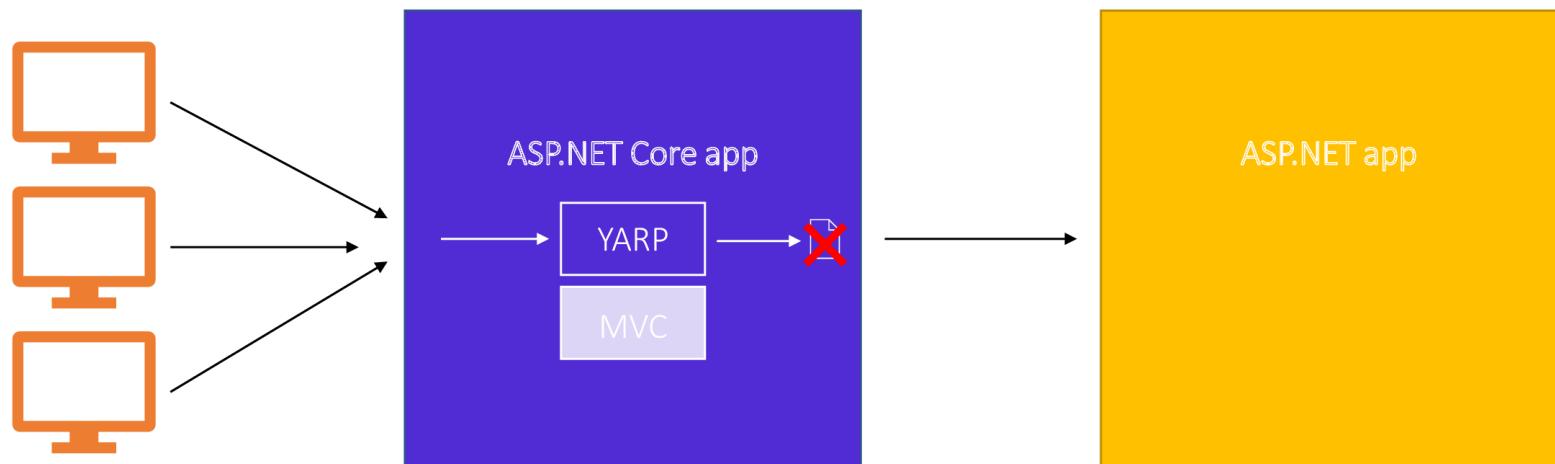
How YARP Works



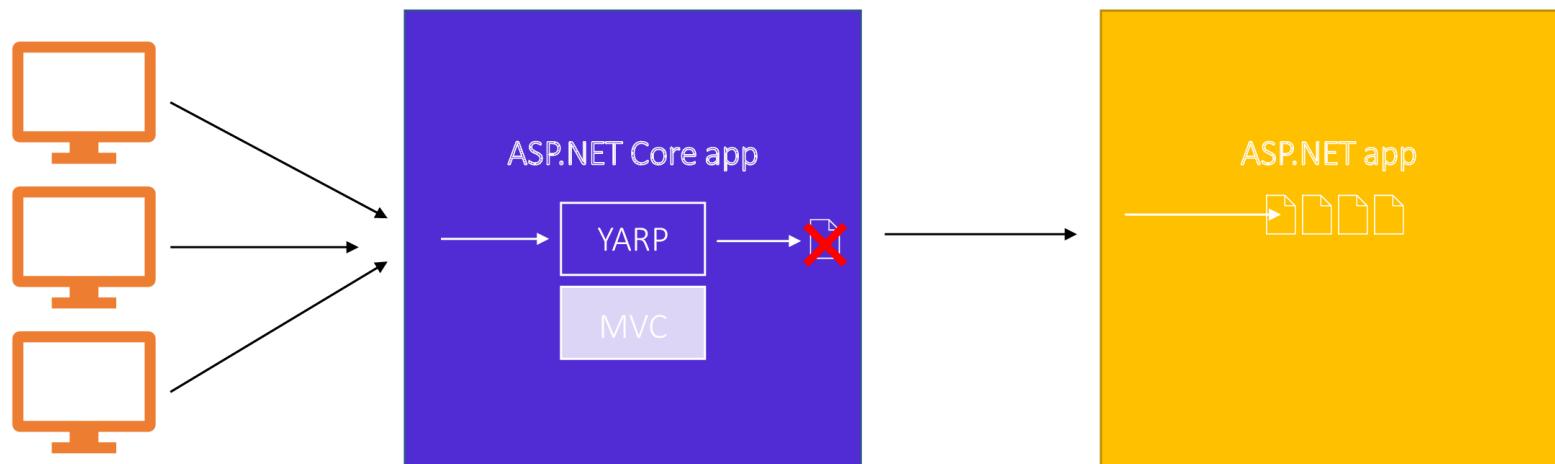
How YARP Works



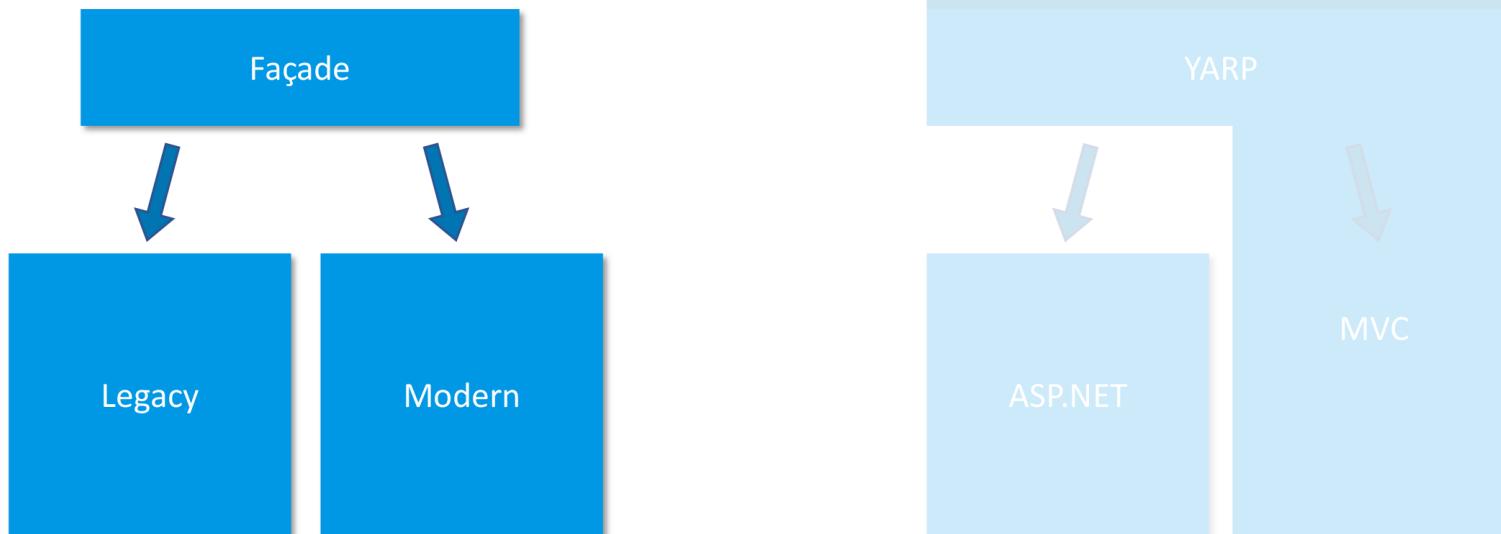
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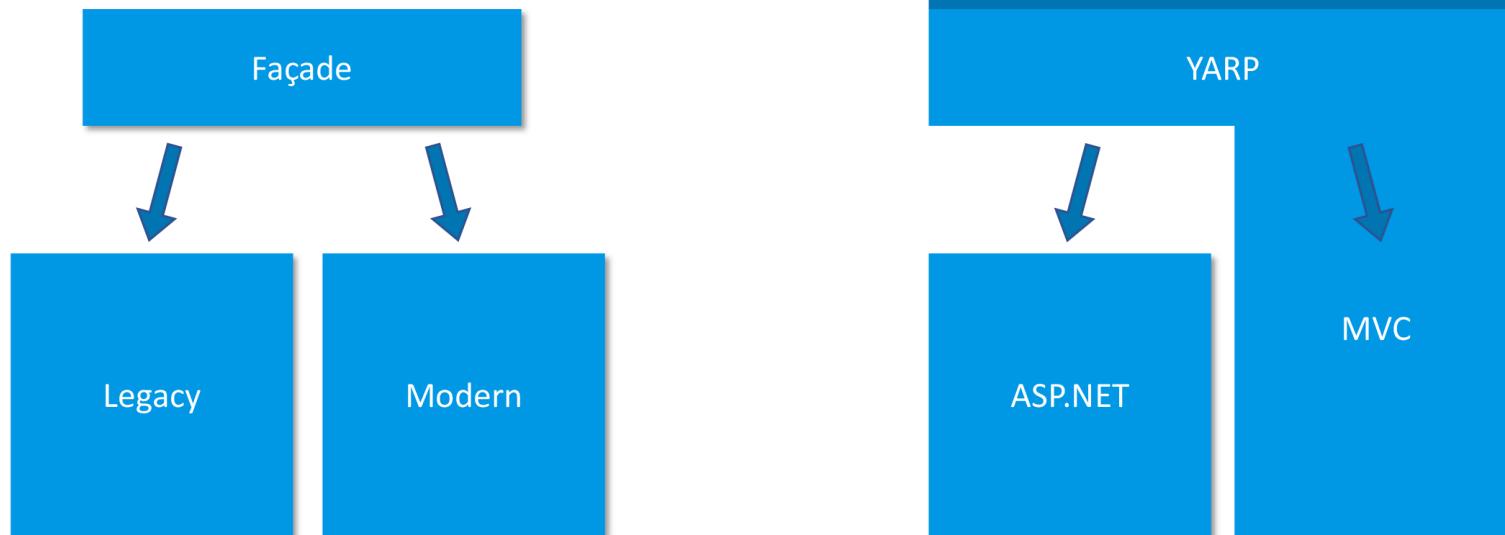
How YARP Works



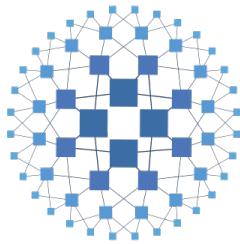
Strangler Fig with YARP



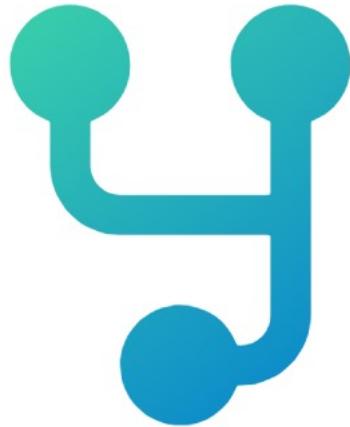
Strangler Fig with YARP



Why YARP?



HAProxy



NGINX





.NET Upgrade Assistant

.NET Upgrade Assistant

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 of varying elevations across a hilly terrain, with dashed grid lines overlaid.

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>

Fill out an evaluation for this session

Great!

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

<https://indycode.amegala.com/schedule>

Thank You! Questions?

Jonathan "J." Tower

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FREE
Consultation



bit.ly/th-offer

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