



TRAILHEAD
TECHNOLOGY PARTNERS

Migrate Your Legacy **ASP.NET** Projects to **ASP.NET Core** **Incrementally with YARP**



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The Problem



ASP.NET



ASP.NET Core

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FREE

Consultation



bit.ly/th-offer

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

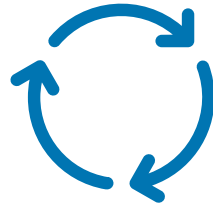
Agenda

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

Migration Approaches



Big Bang



Evolution



Strangler Fig

Big Bang Approach



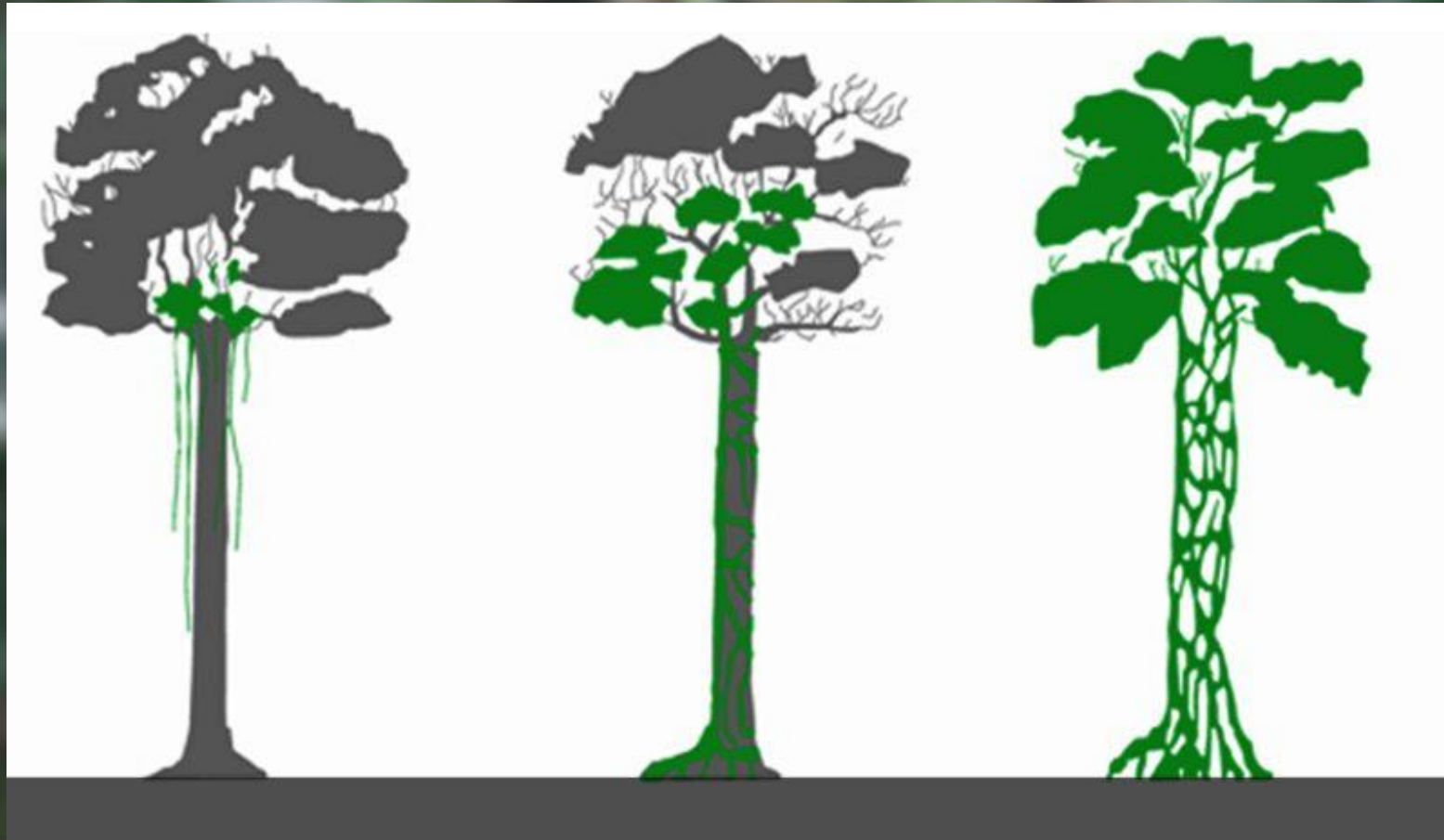
Evolutionary Approach



Strangler Fig Approach

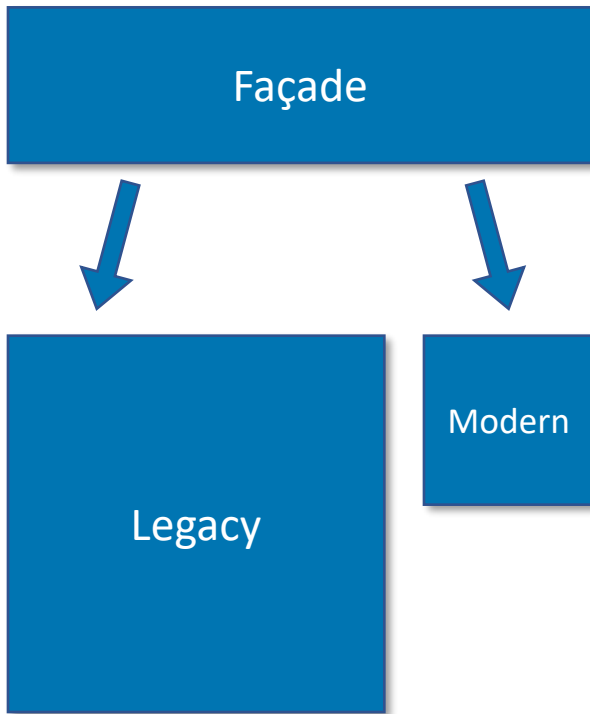


Strangler Fig

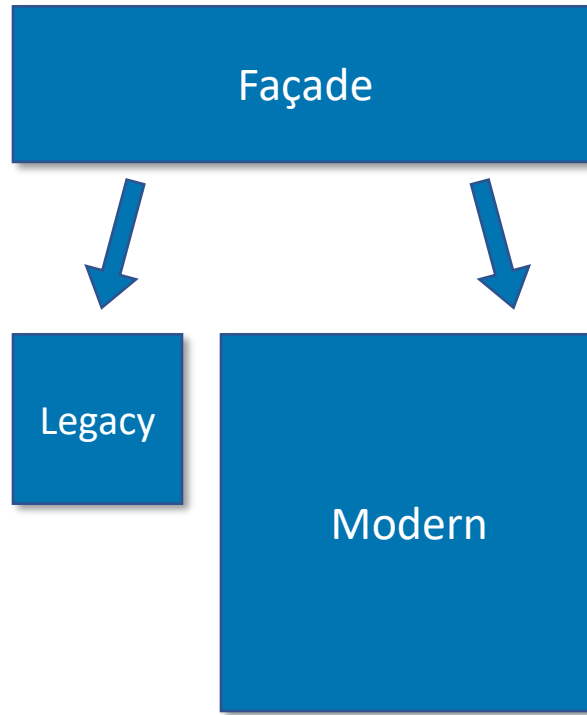


Strangler Fig Pattern

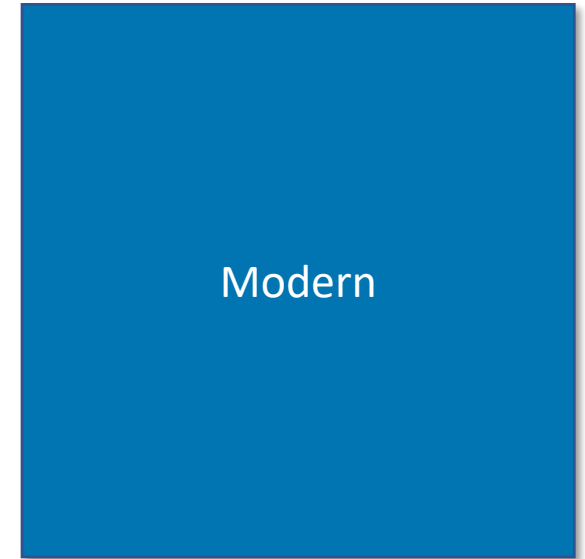
Step 1



Step 2



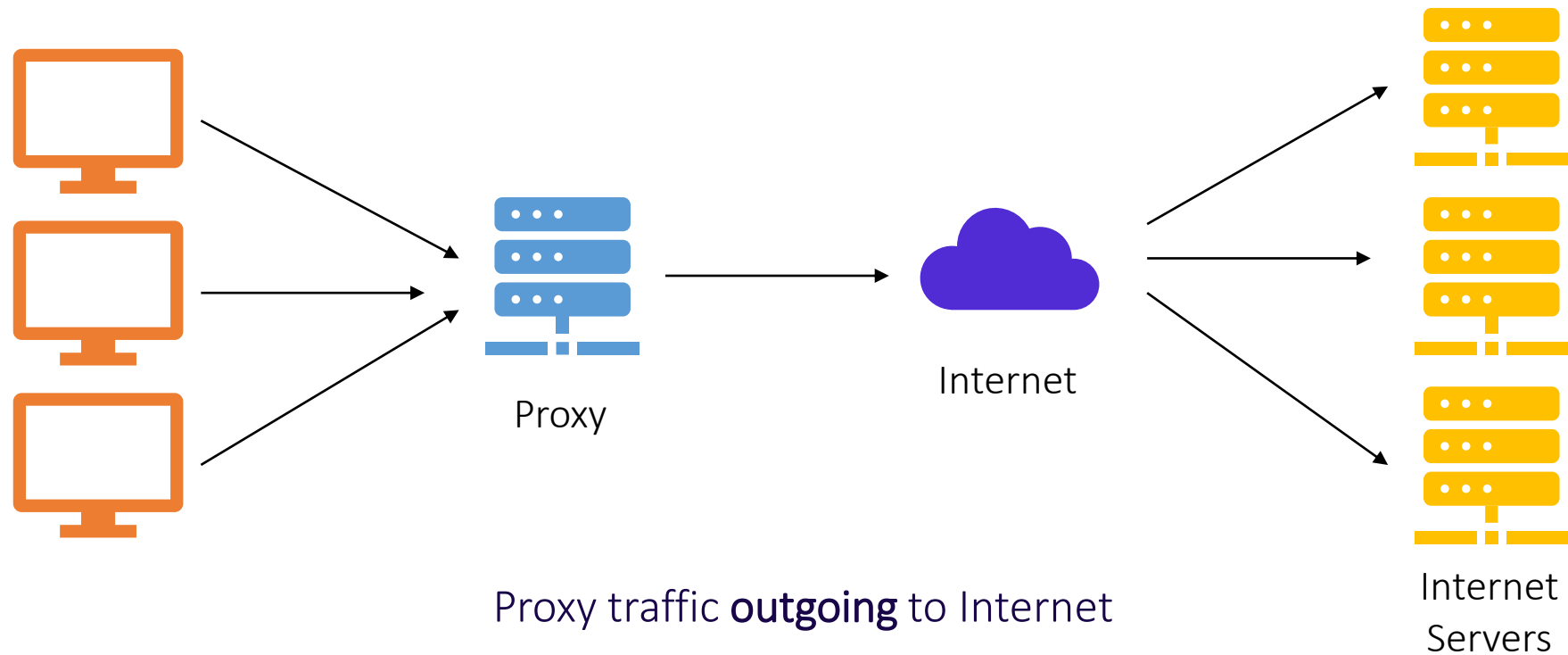
Step 3



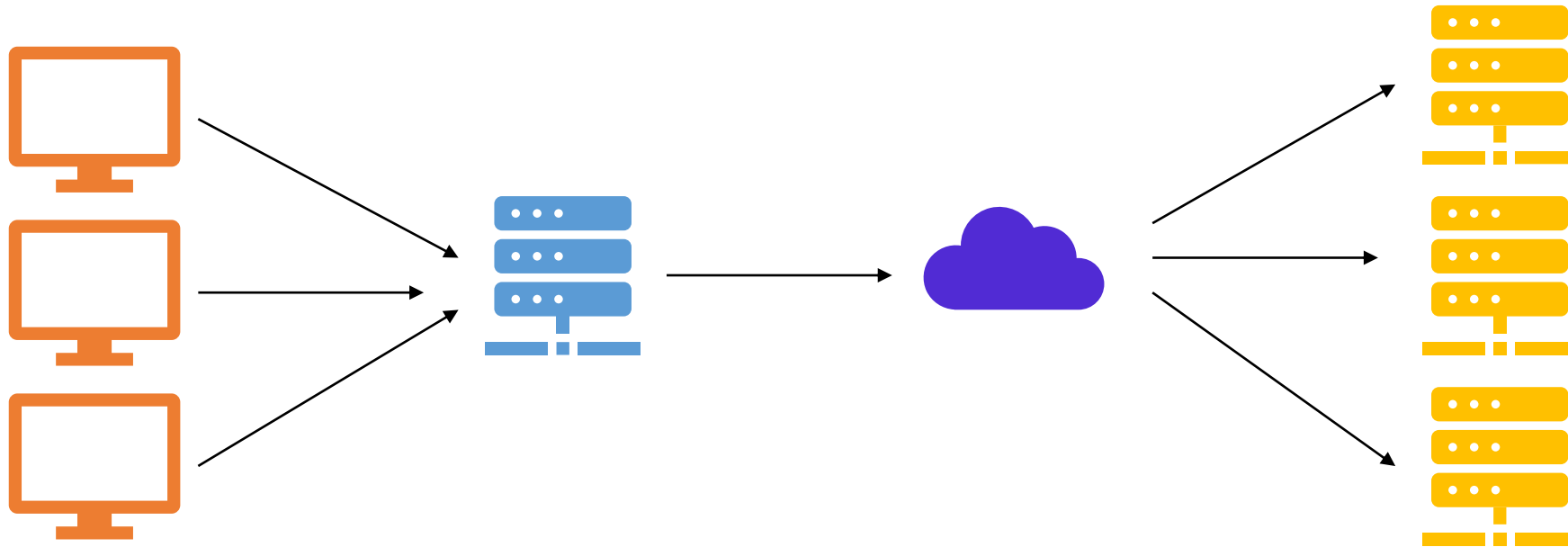


What is A Reverse Proxy?

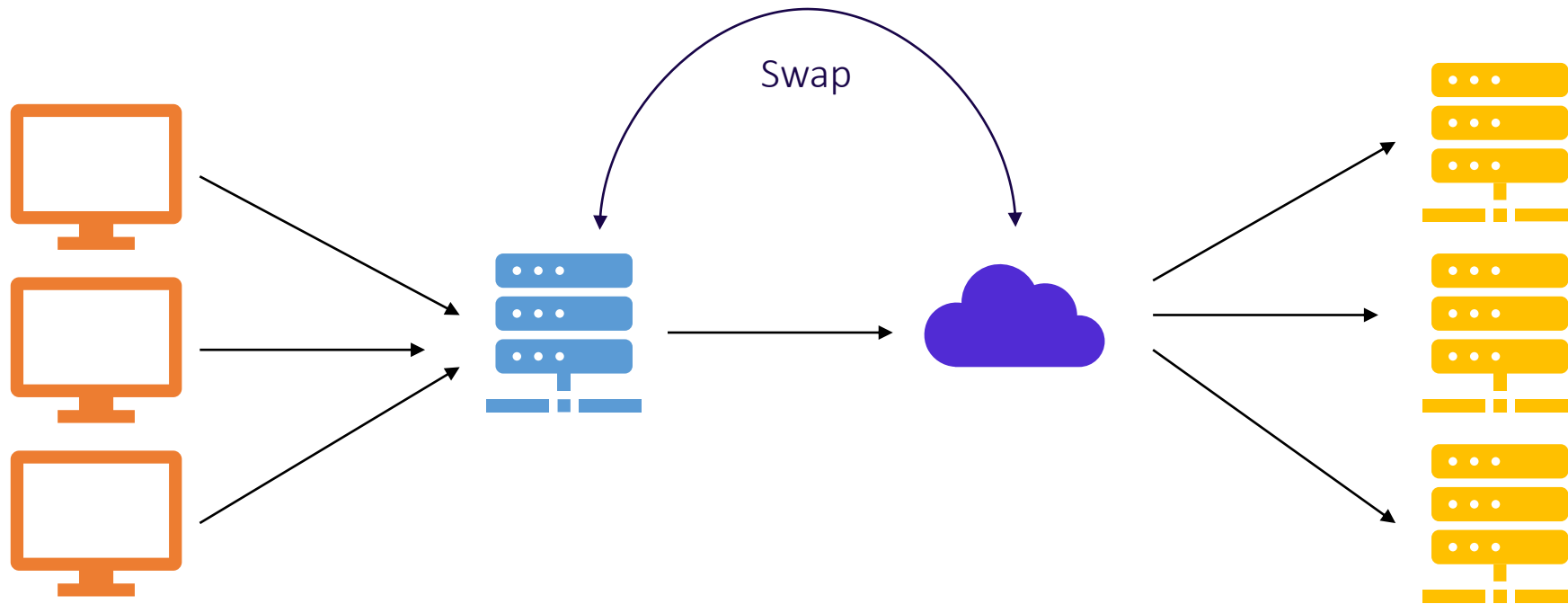
What is a Regular (Forward) Proxy?



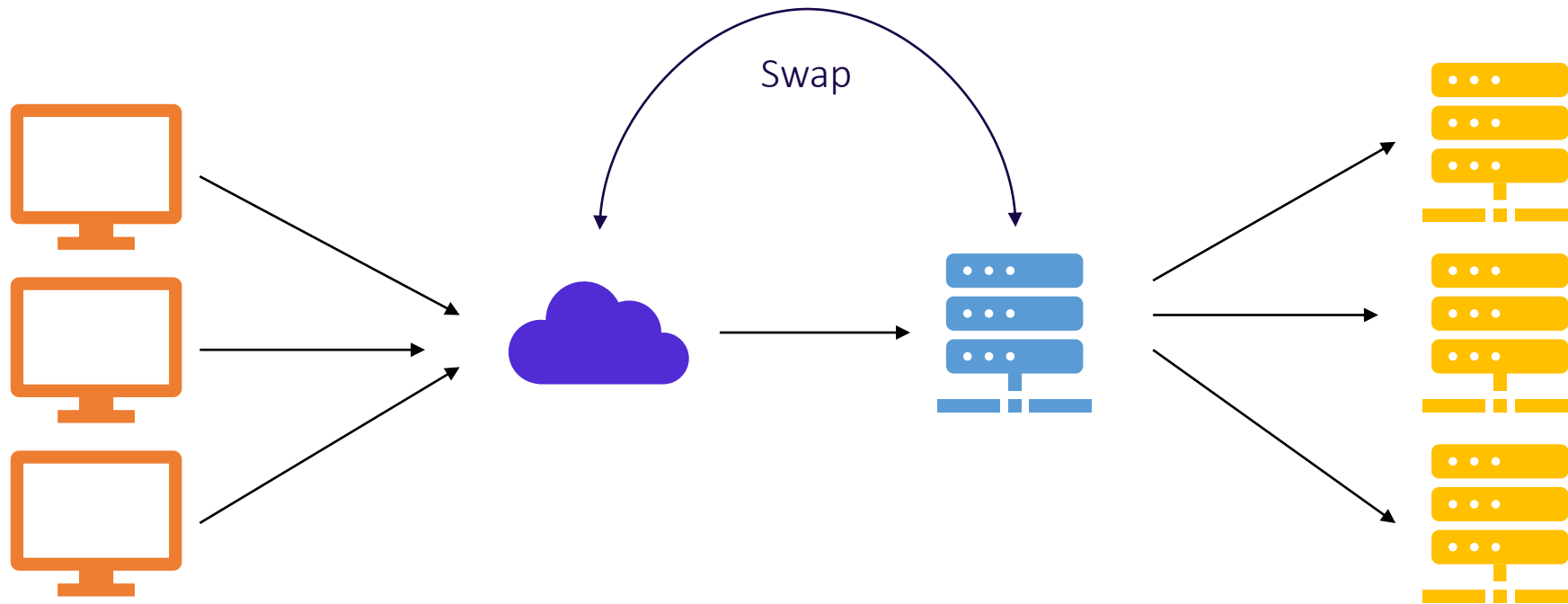
What is a REVERSE Proxy?



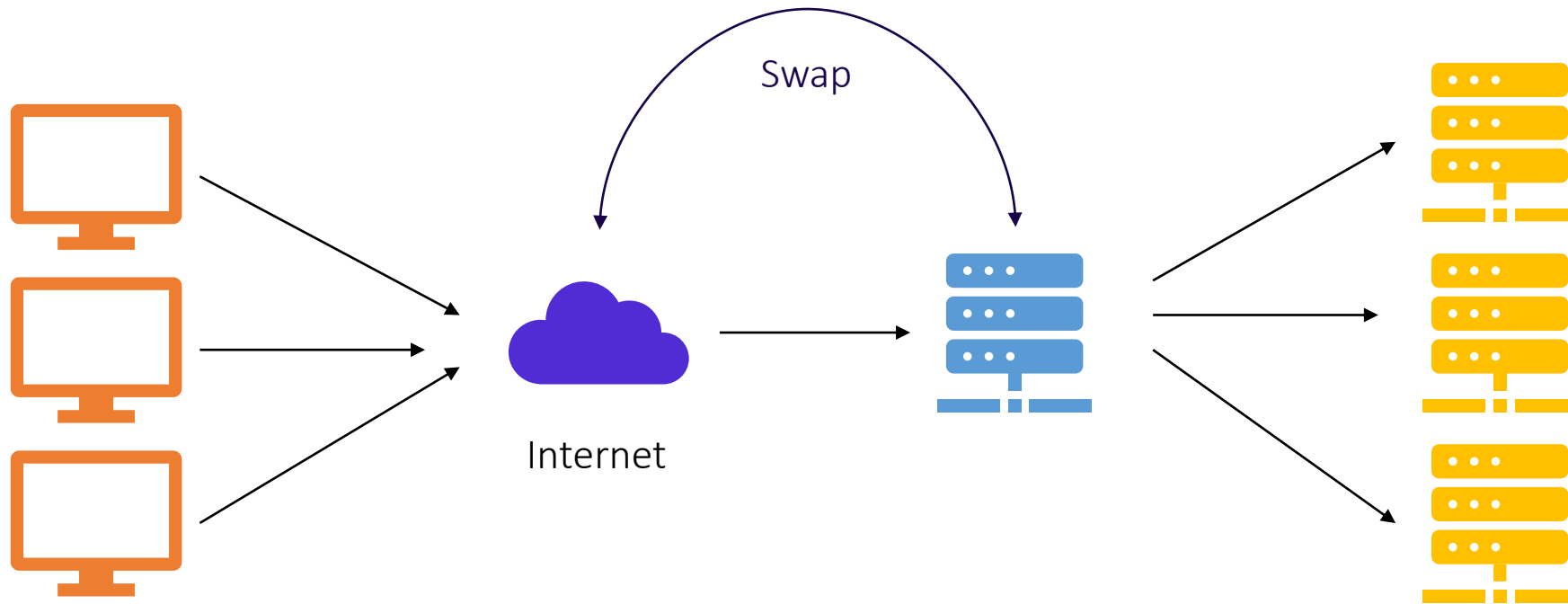
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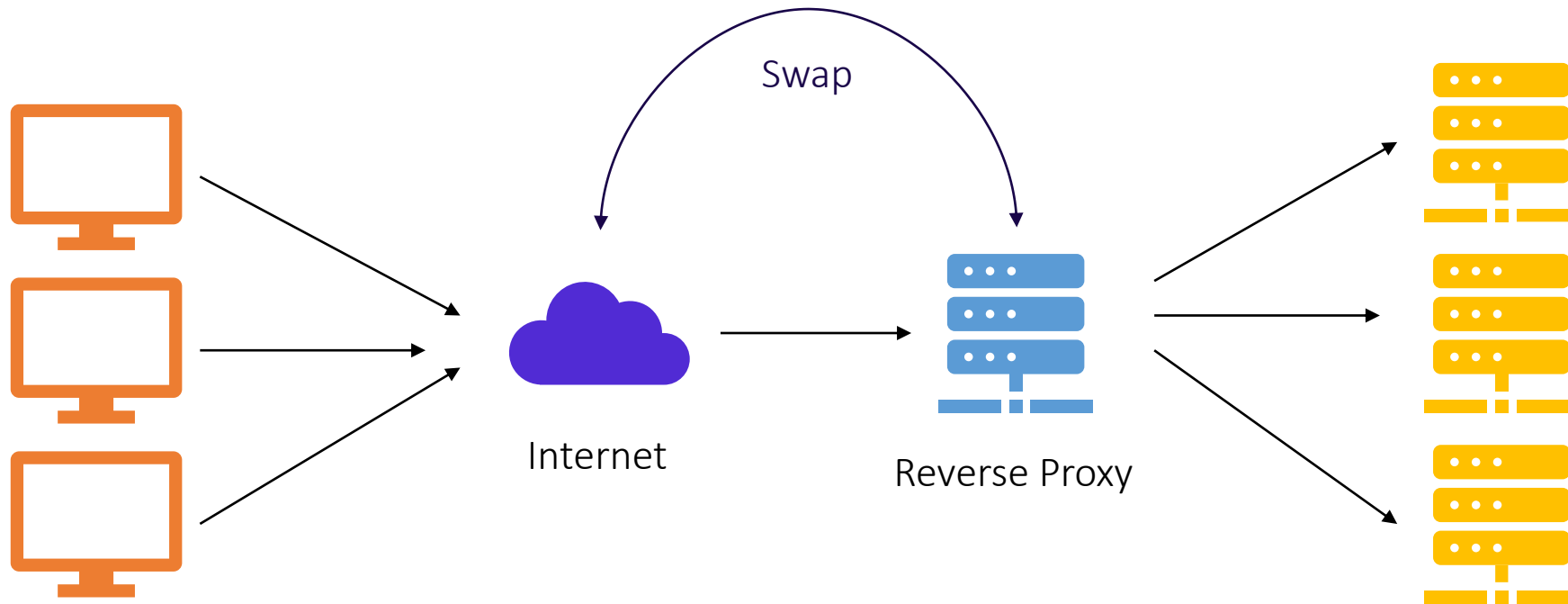
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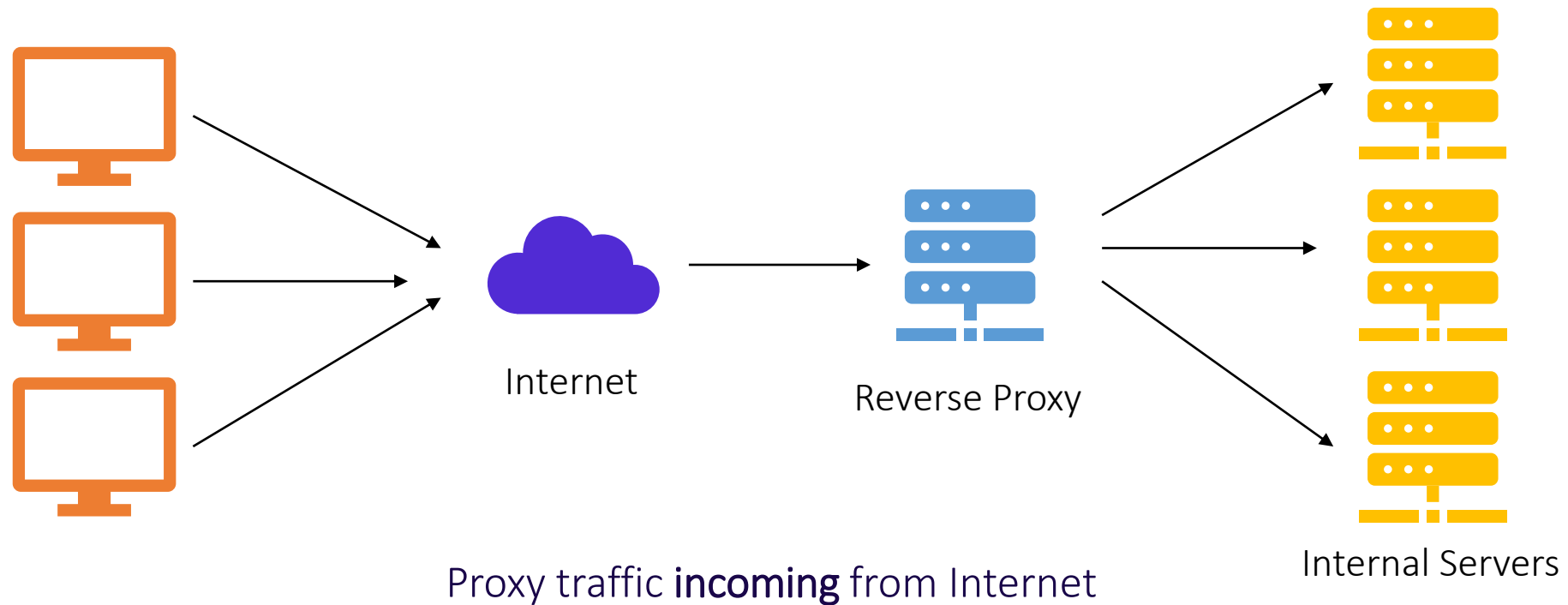
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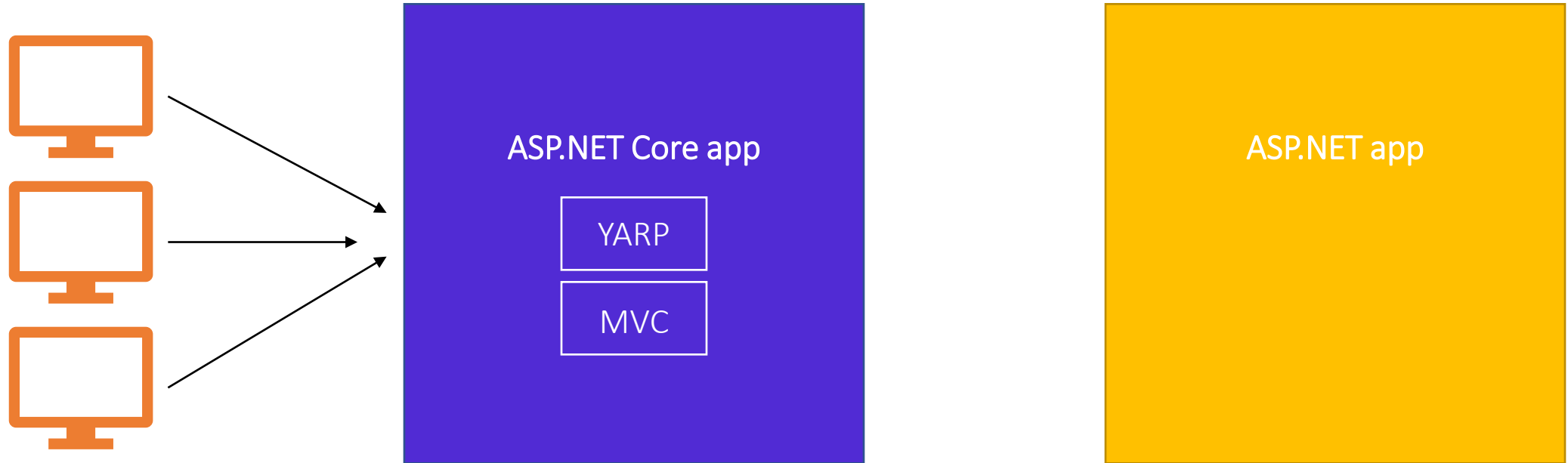
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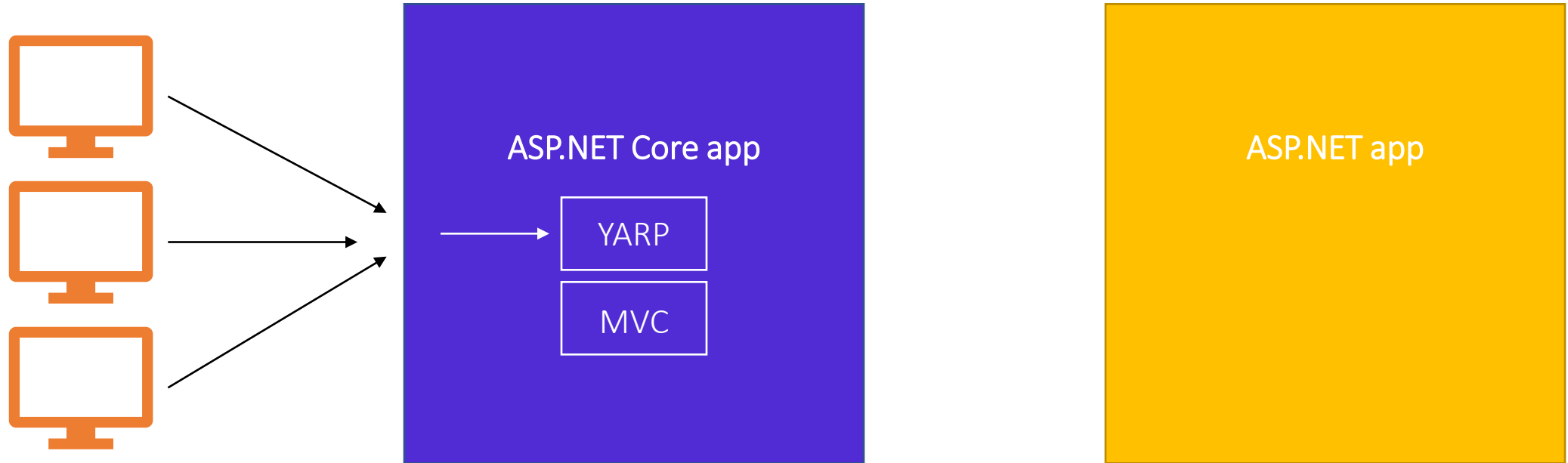


How YARP Works

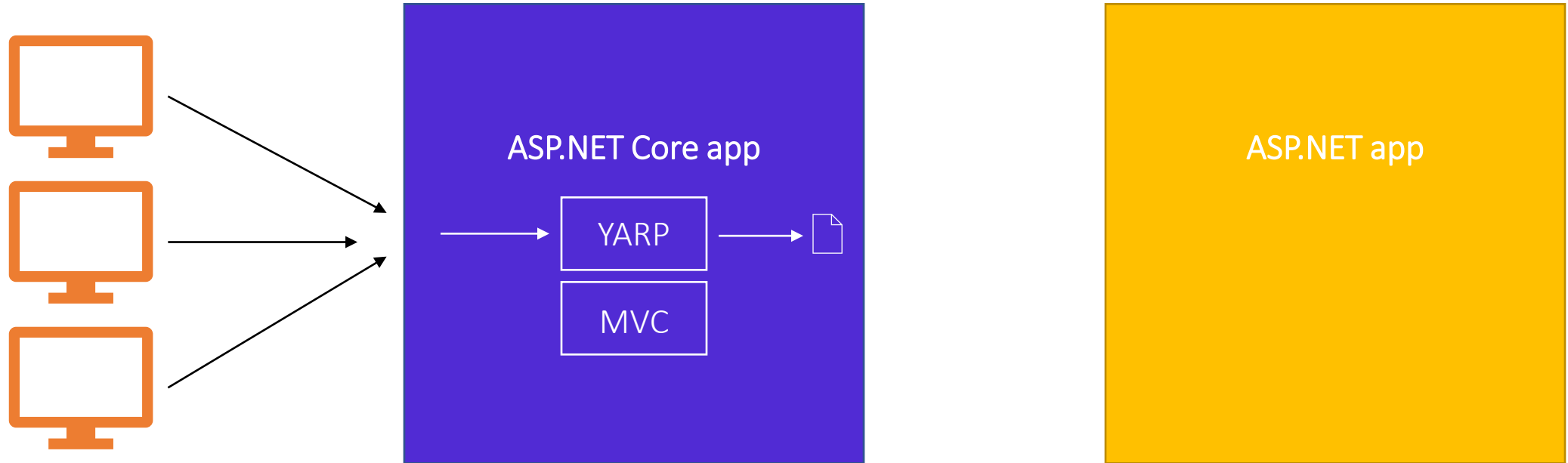
How YARP Works



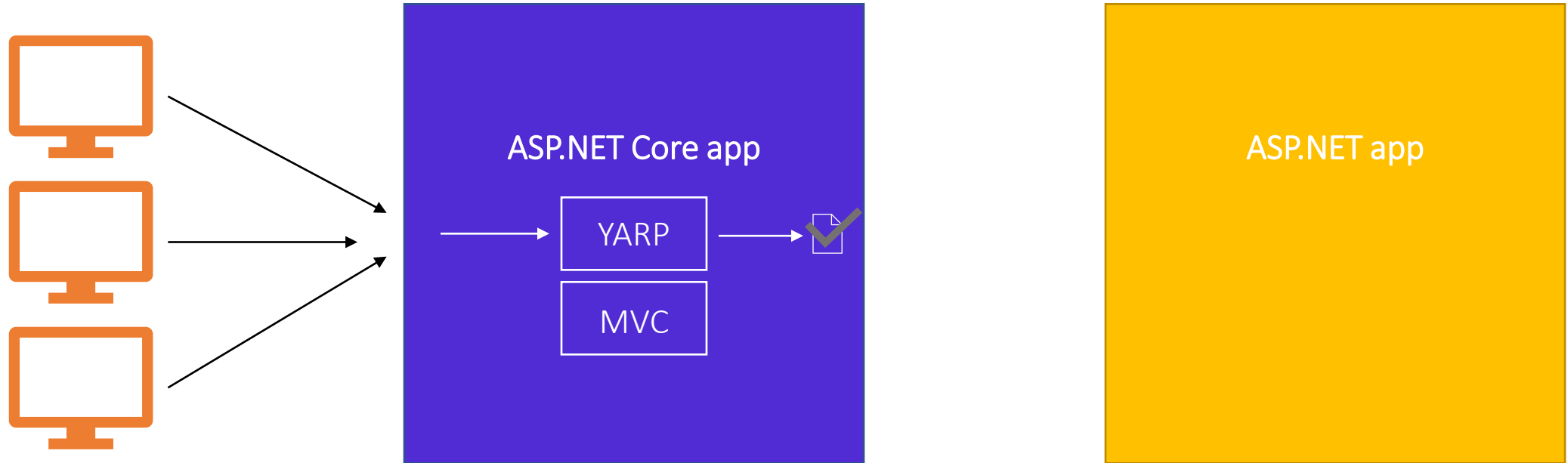
How YARP Works



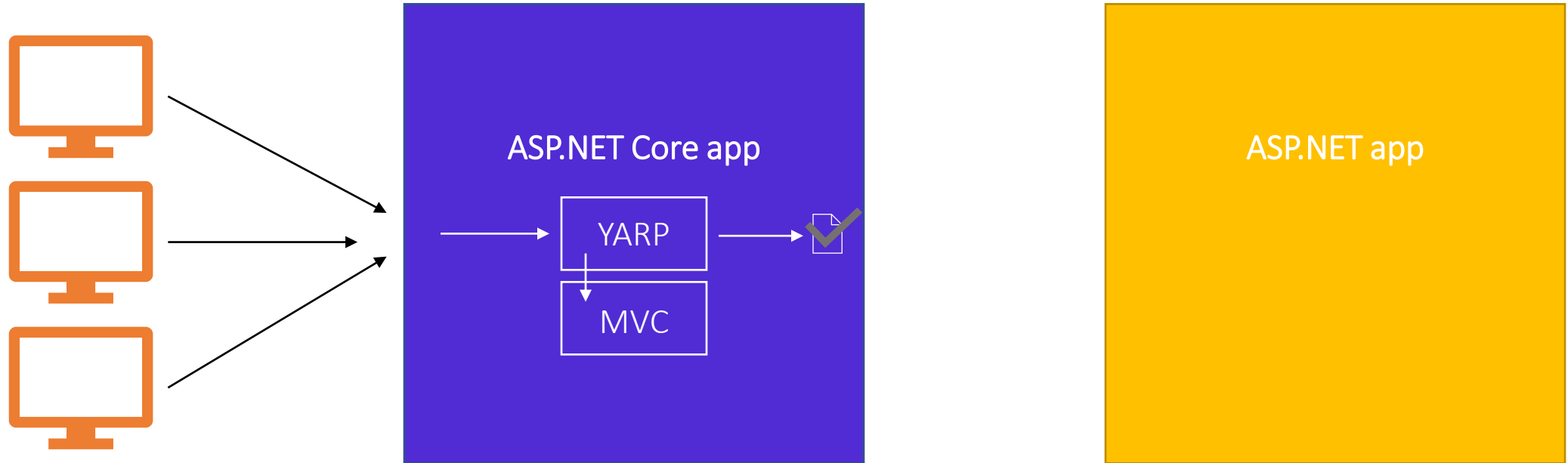
How YARP Works



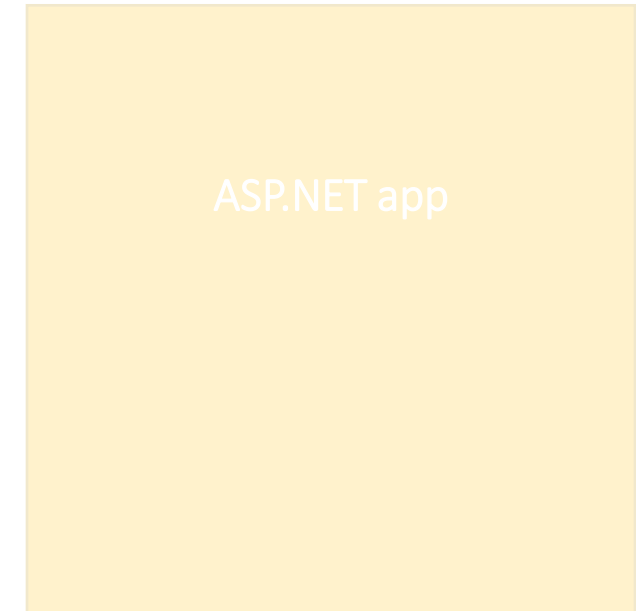
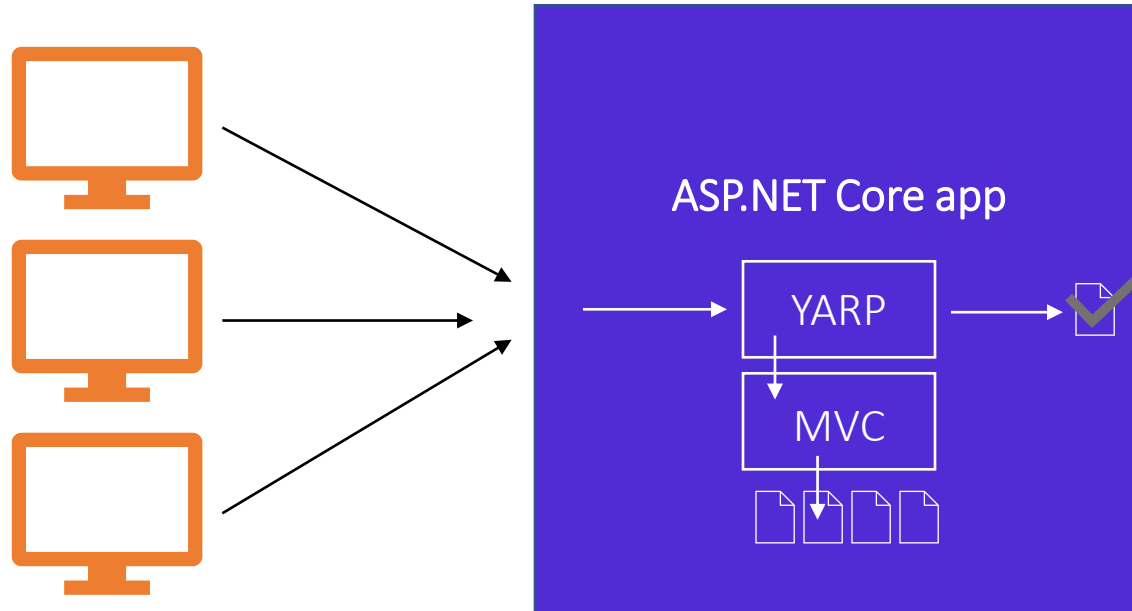
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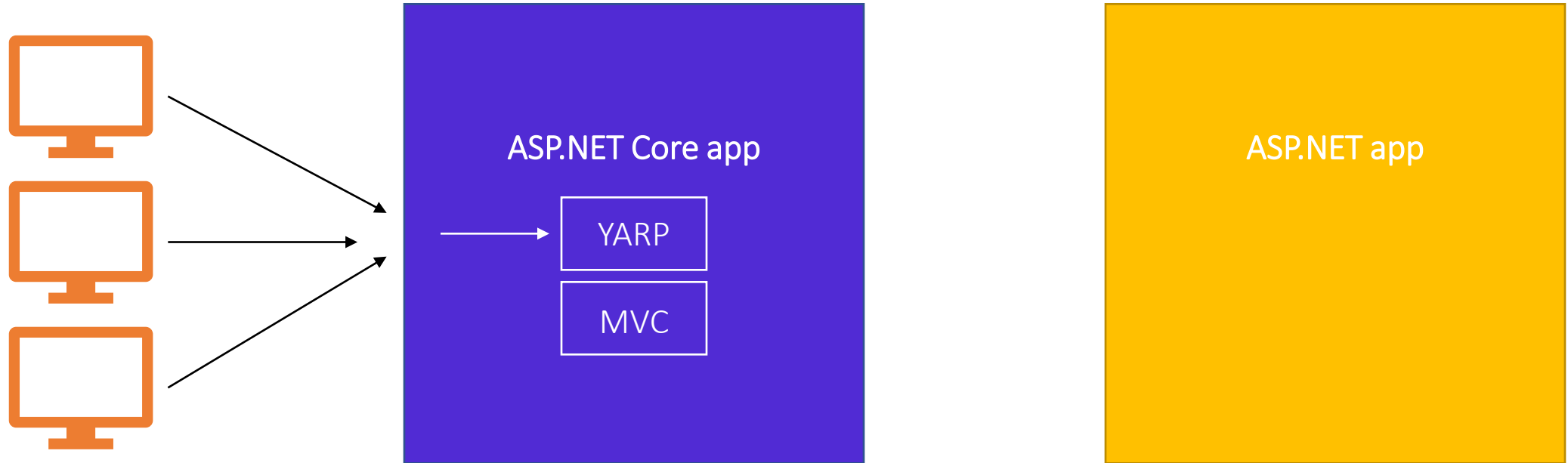
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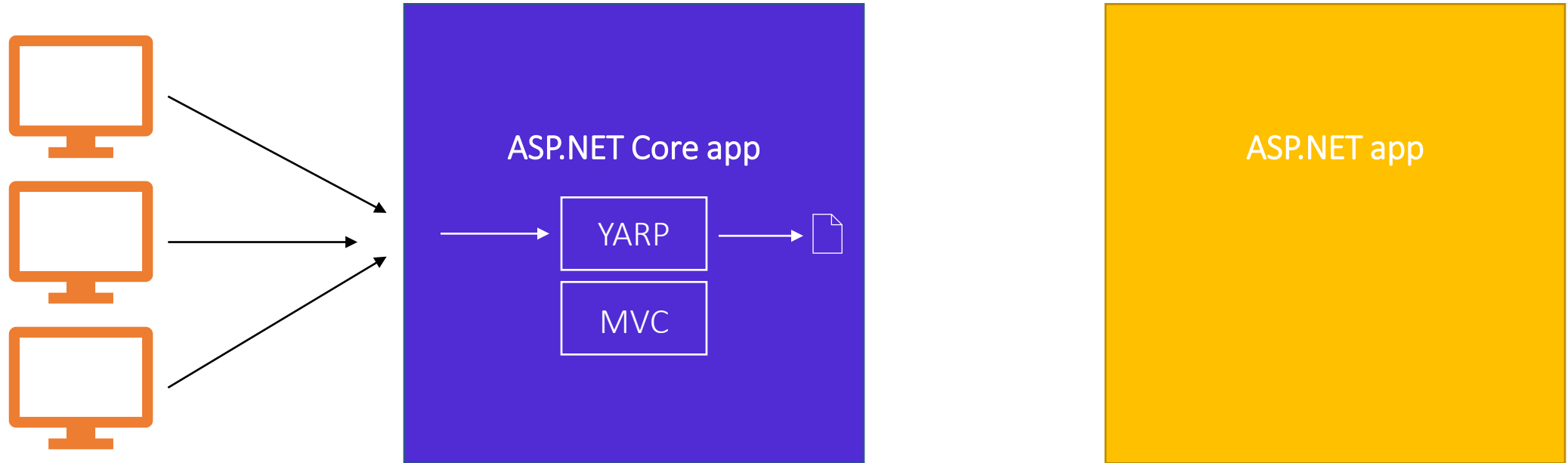
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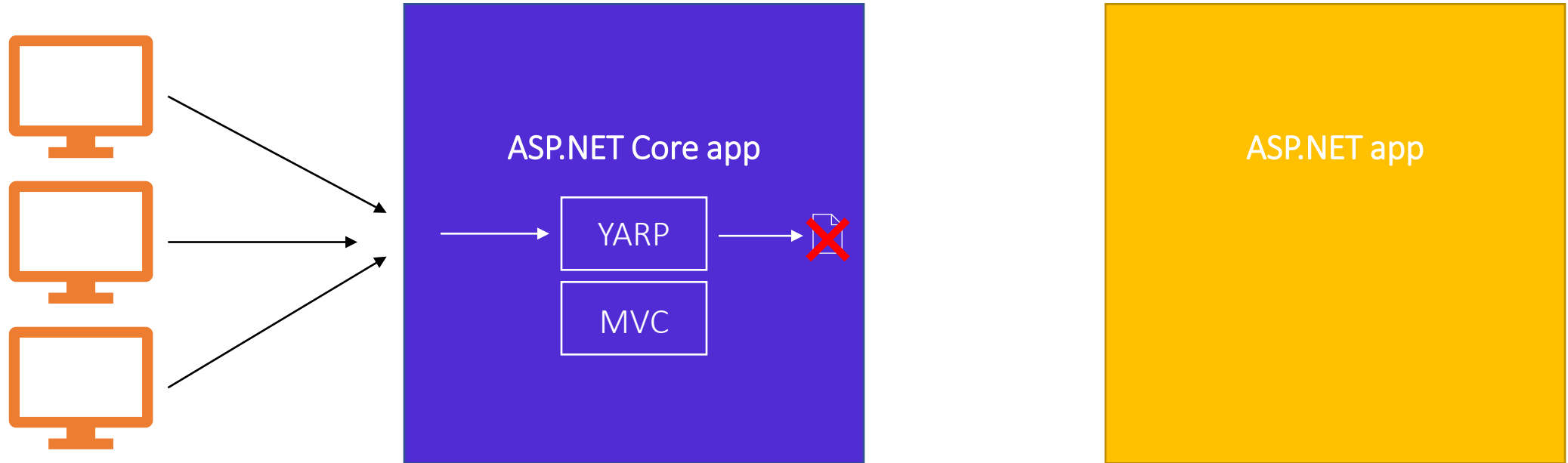
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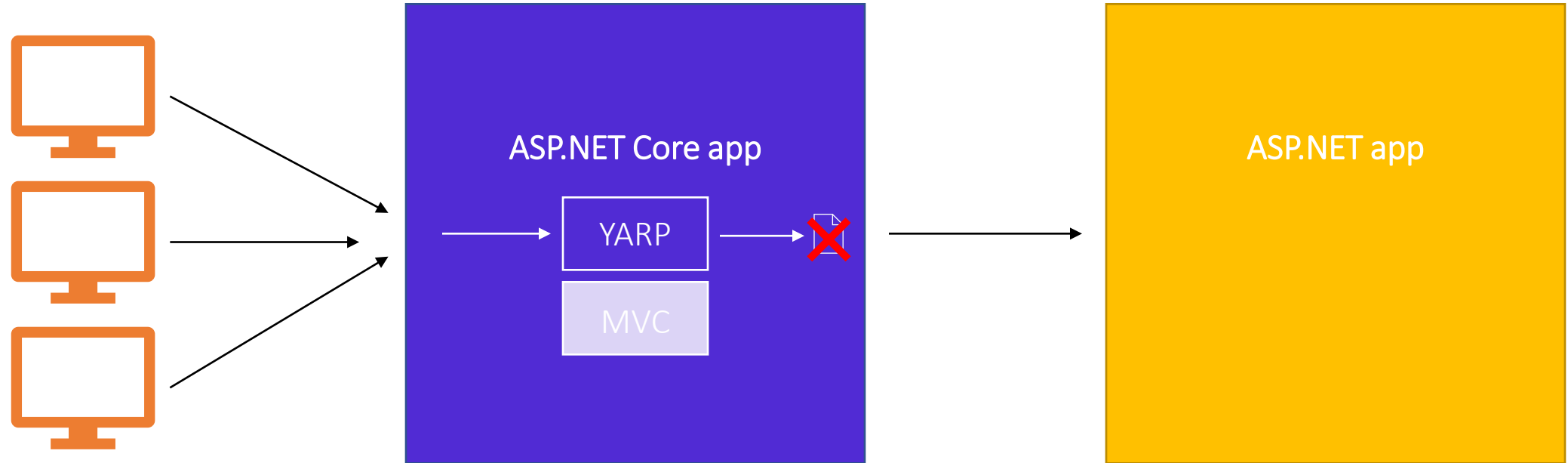
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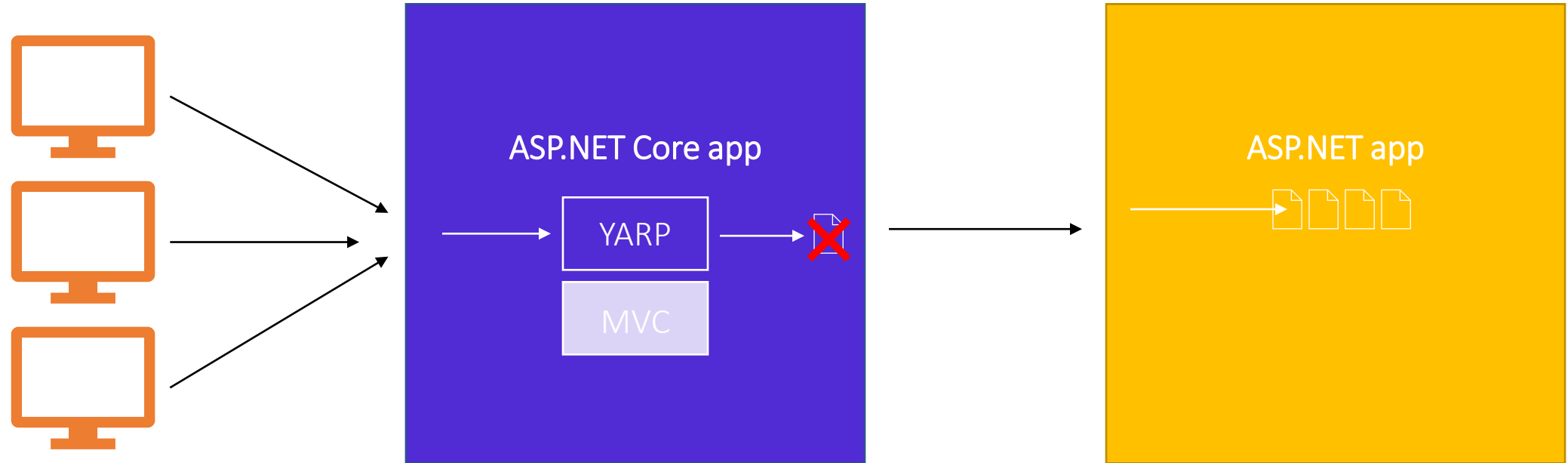
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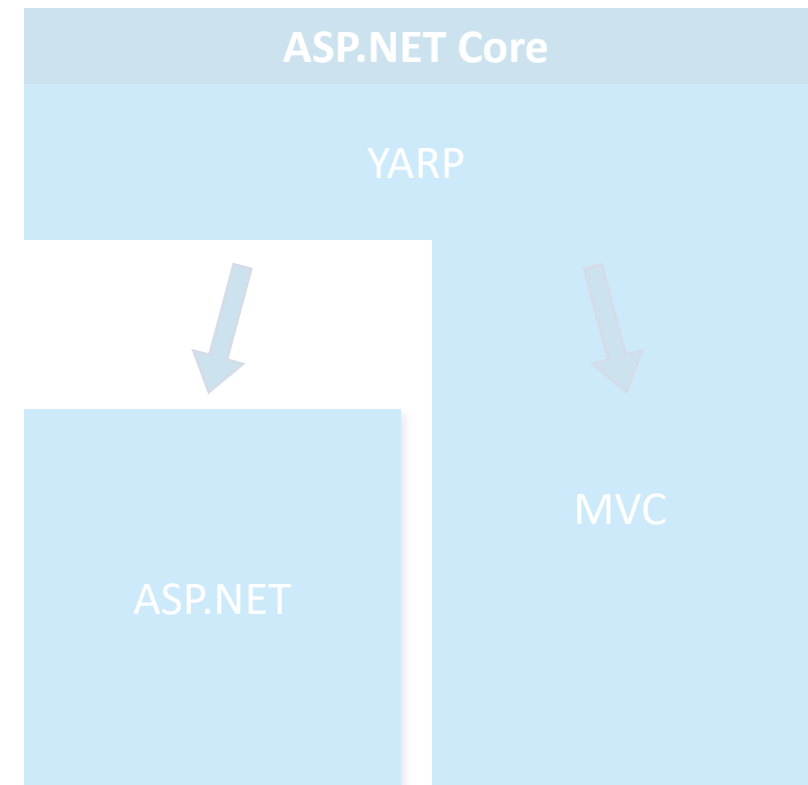
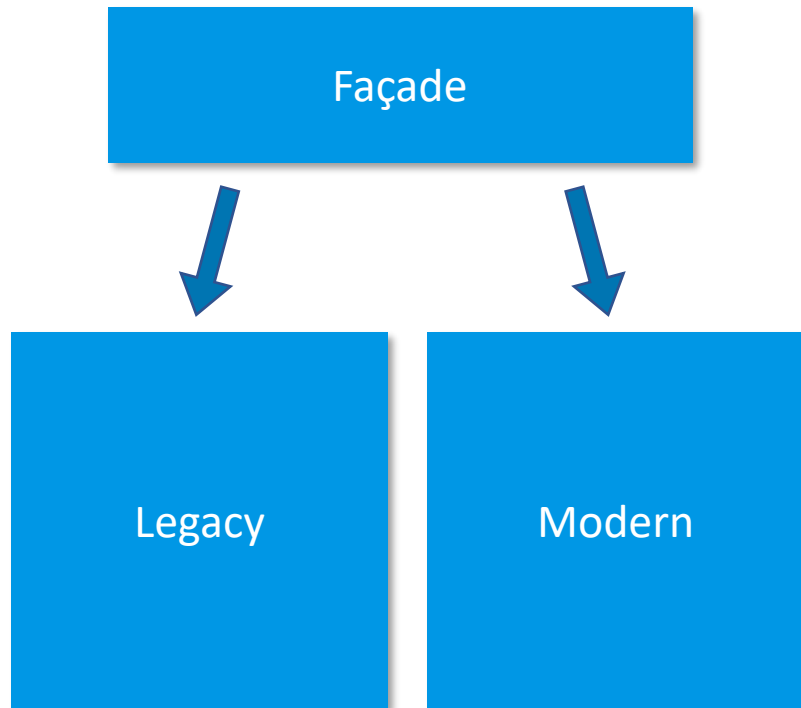
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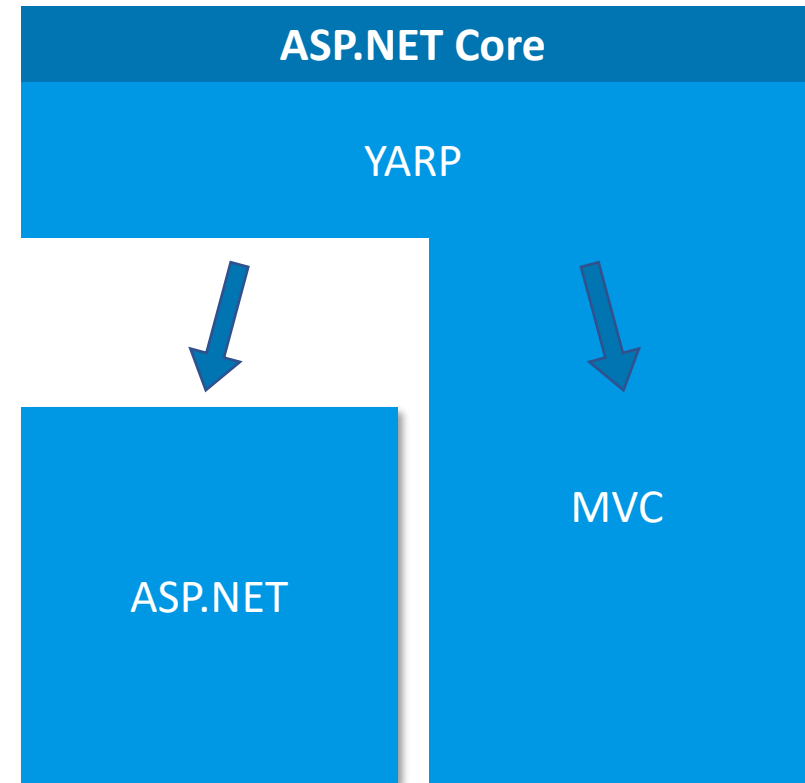
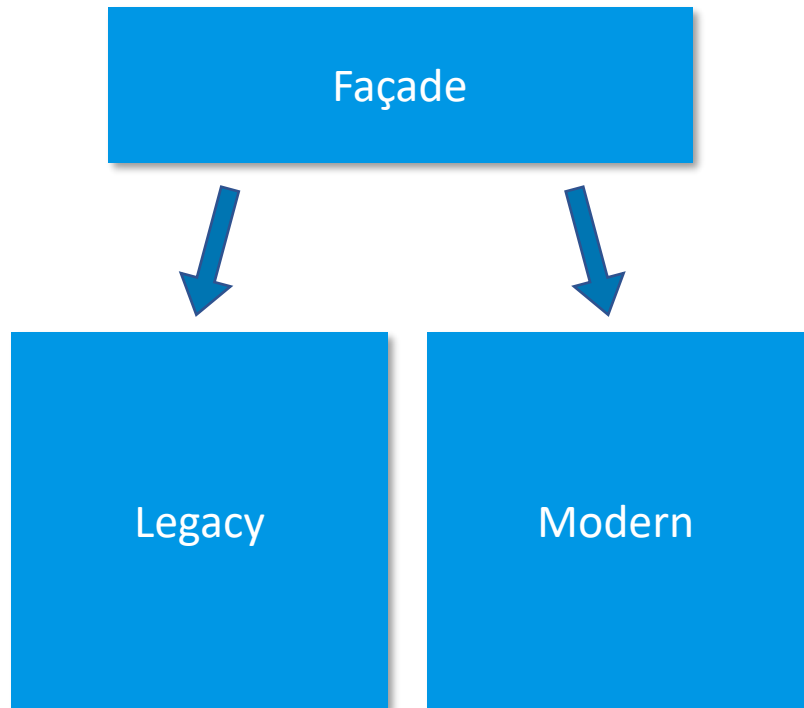
How YARP Works



Strangler Fig with YARP



Strangler Fig with YARP





.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

A topographic map with contour lines, dashed grid lines, and various symbols like dots and crosses. A solid black line runs horizontally across the middle of the map.

.NET Upgrade Assistant + YARP Demo



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 v2.0.0 is live on NuGet
- Microsoft.AspNetCore.SystemWebAdapters v1.1.0 is live

Unofficial

- .NET Upgrade Assistant VS extension is in *preview*

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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Consultation



bit.ly/th-offer

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