

.NET Conf 2022



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

Incrementally with YARP

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The Problem



ASP.NET



ASP.NET Core

Migration: How To Get It Done



Big Bang



Evolution



Strangler Fig

Big Bang Approach



Evolution Approach



Strangler Fig Approach



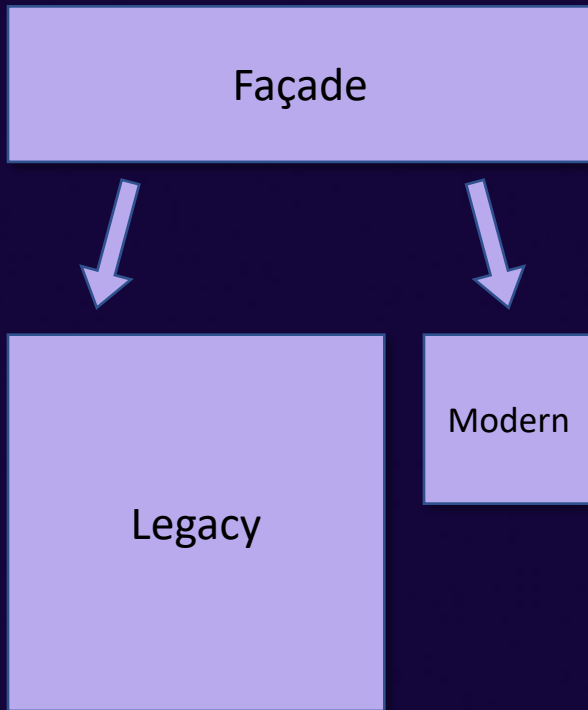
Strangler Fig

- Seeds germinate in crevices atop trees
- Roots grow downward
- Leaves grow up toward sunlight
- Support tree is choked and dies
- “Columnar tree” with a hollow core

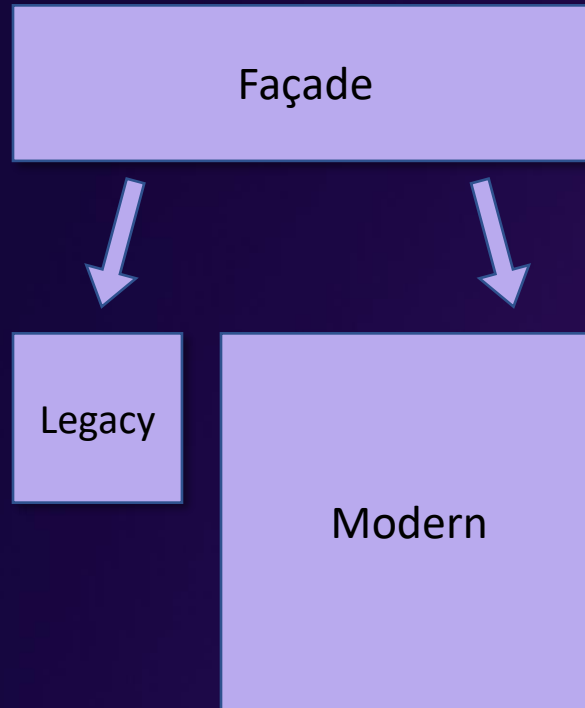


Strangler Fig Pattern

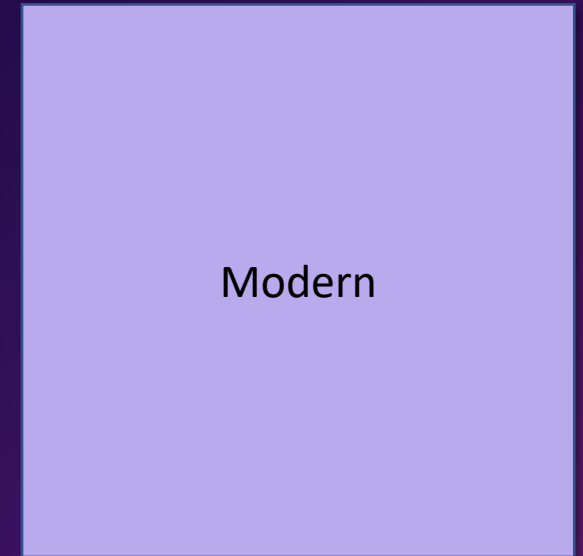
Early Migration



Middle Migration



Migration Complete



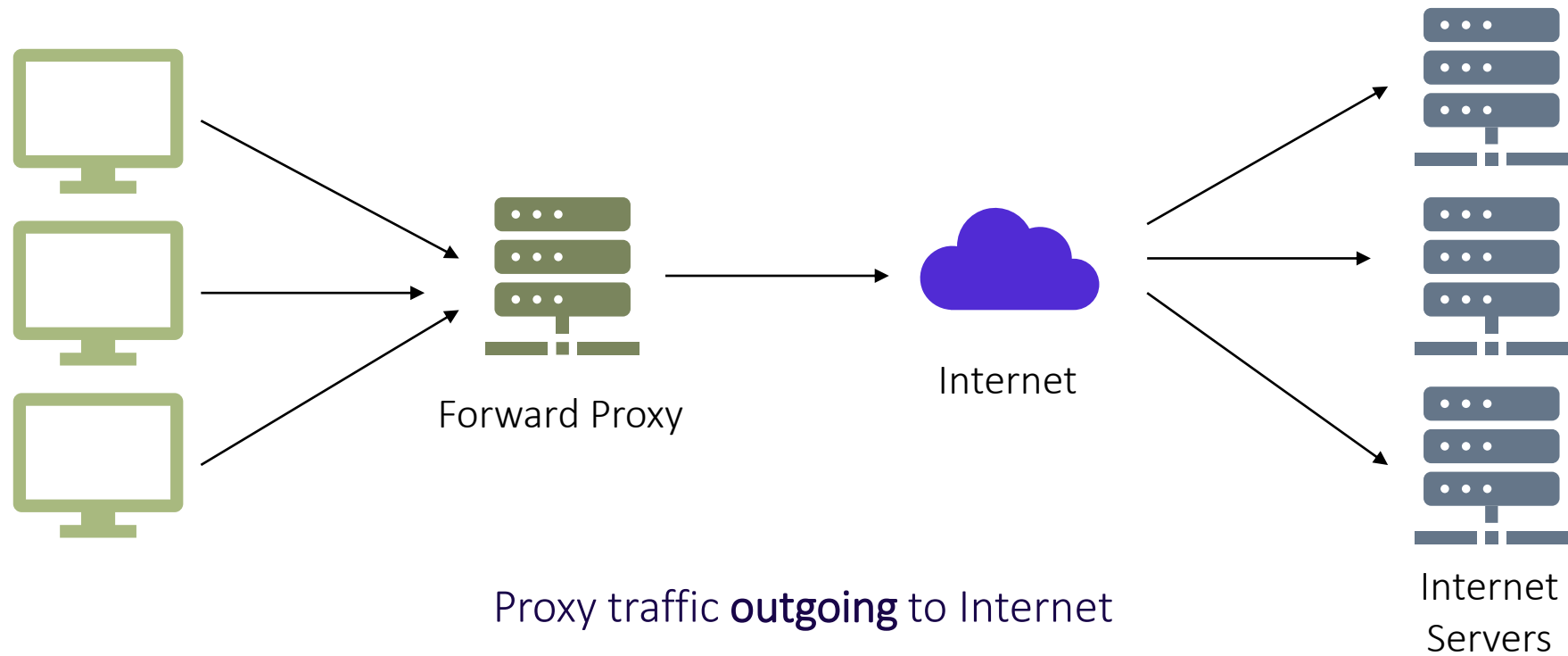
YARP

A Reverse Proxy for .NET

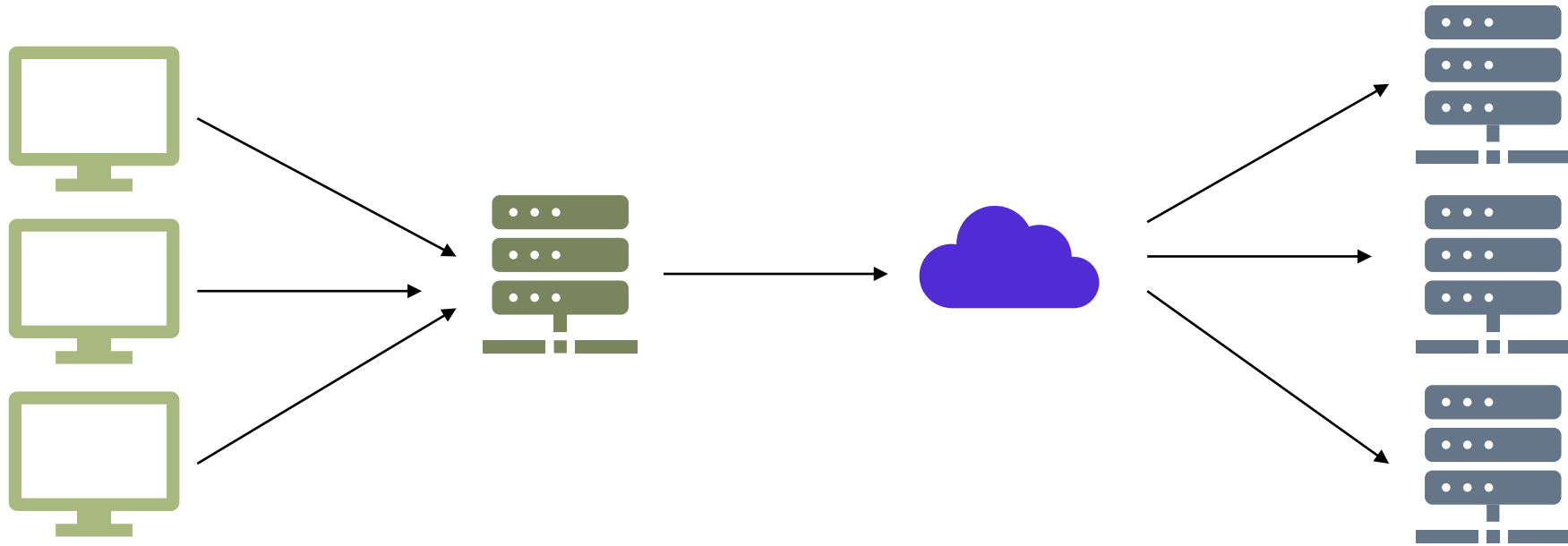
What Is YARP?

- “Yet Another Reverse Proxy”
- Customizable proxy functionality
- Supports ASP.NET Core 3.1 and later
- Build on top of .NET Core infrastructure
- Usable on Windows, Linux or MacOS
- NuGet package
- Visual Studio or Visual Studio Code
- Future: project template and pre-built exe

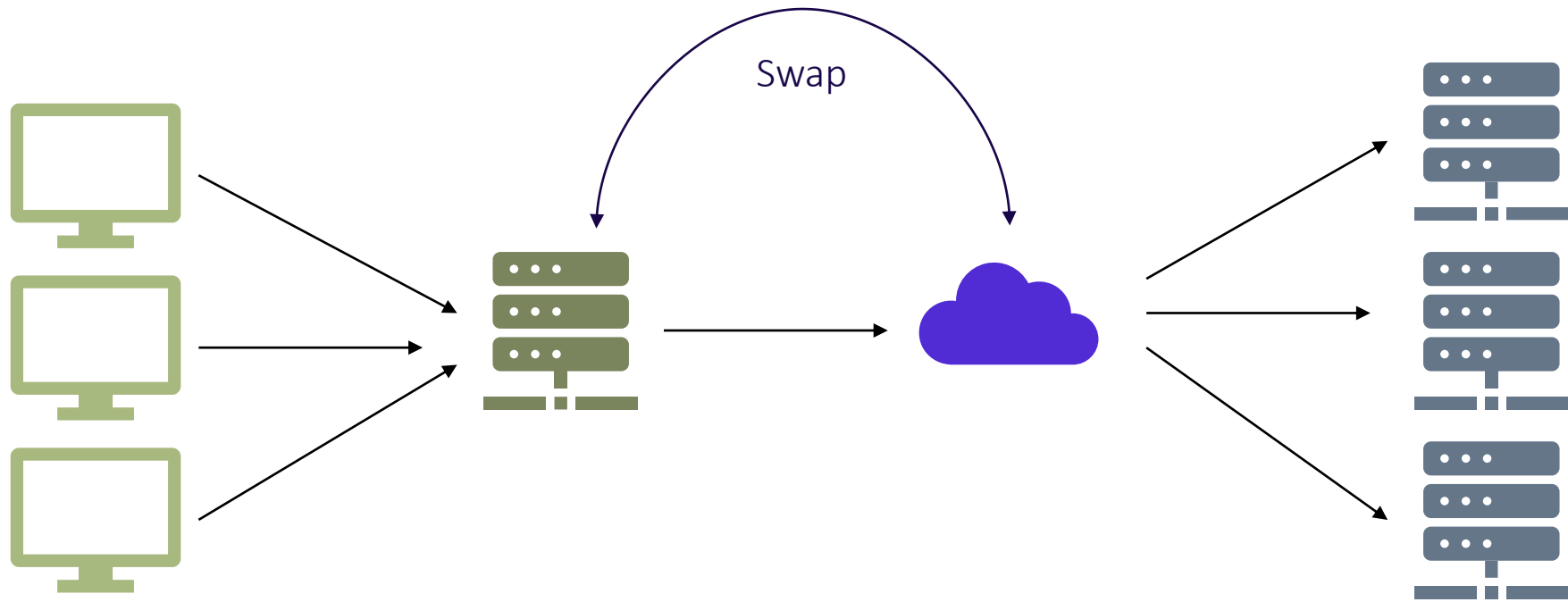
What is a Regular (Forward) Proxy?



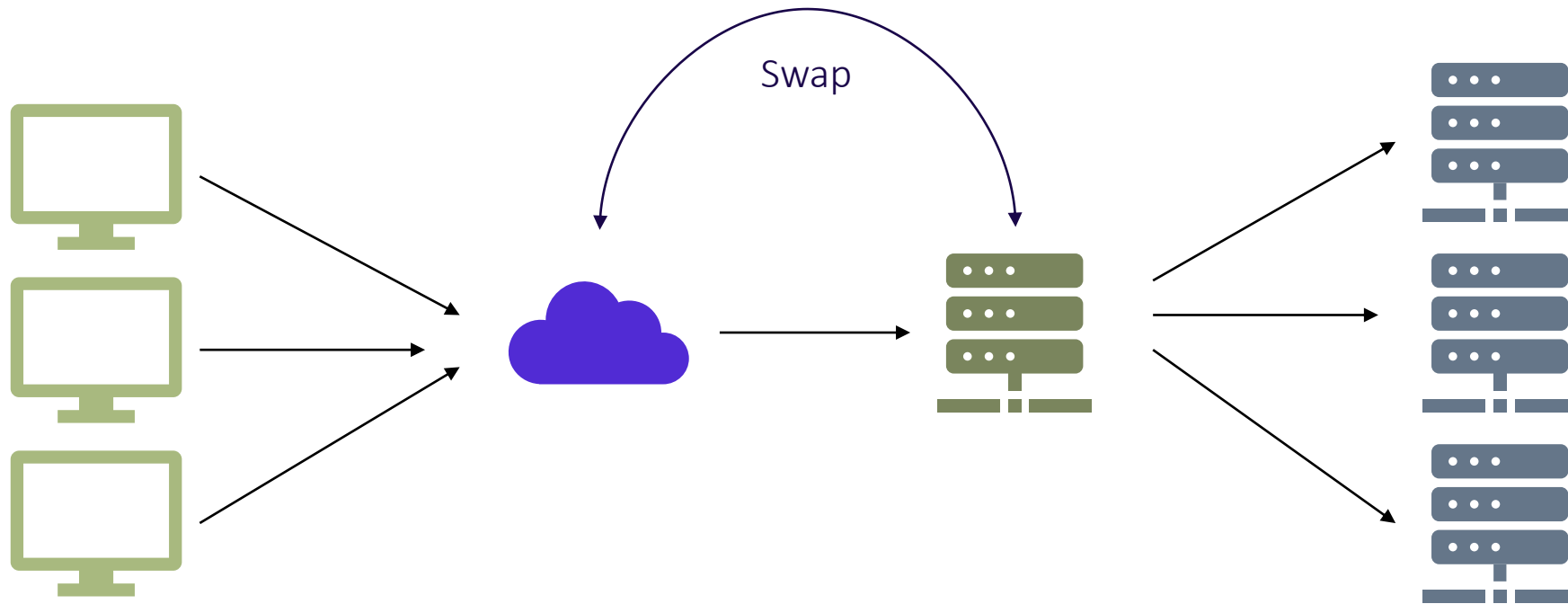
What is a Reverse Proxy?



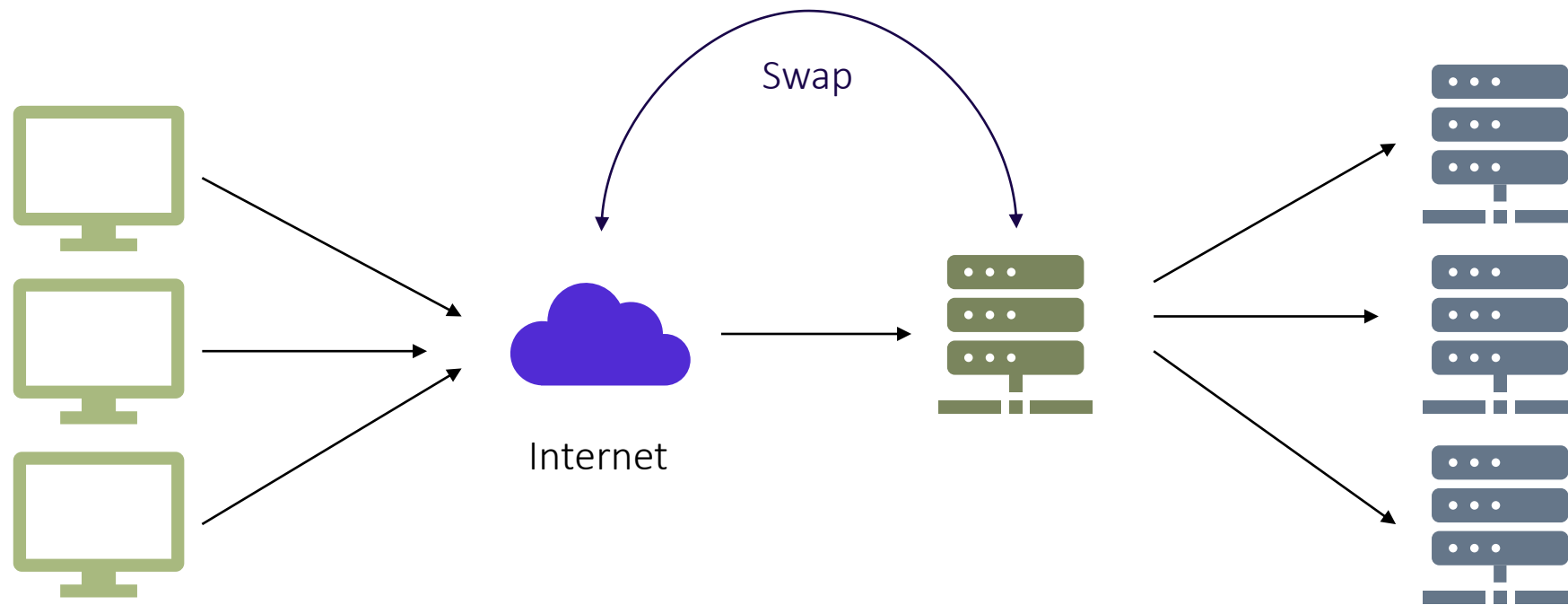
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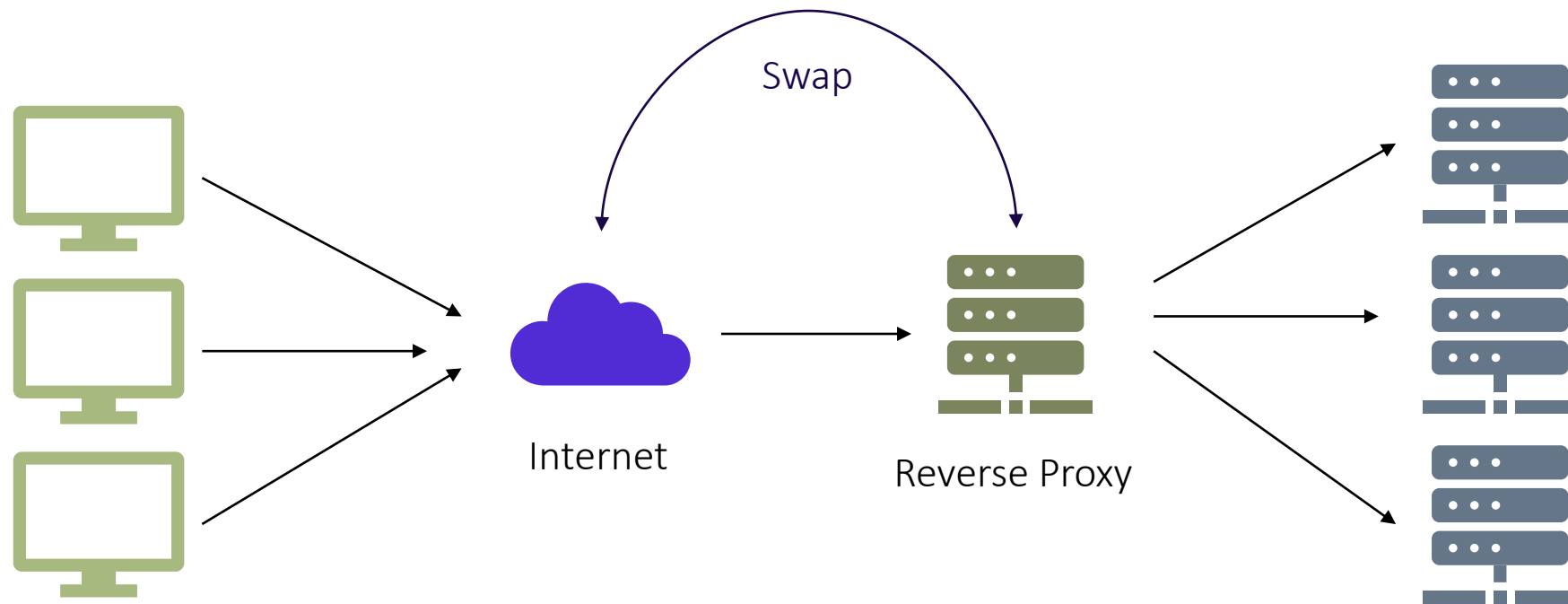
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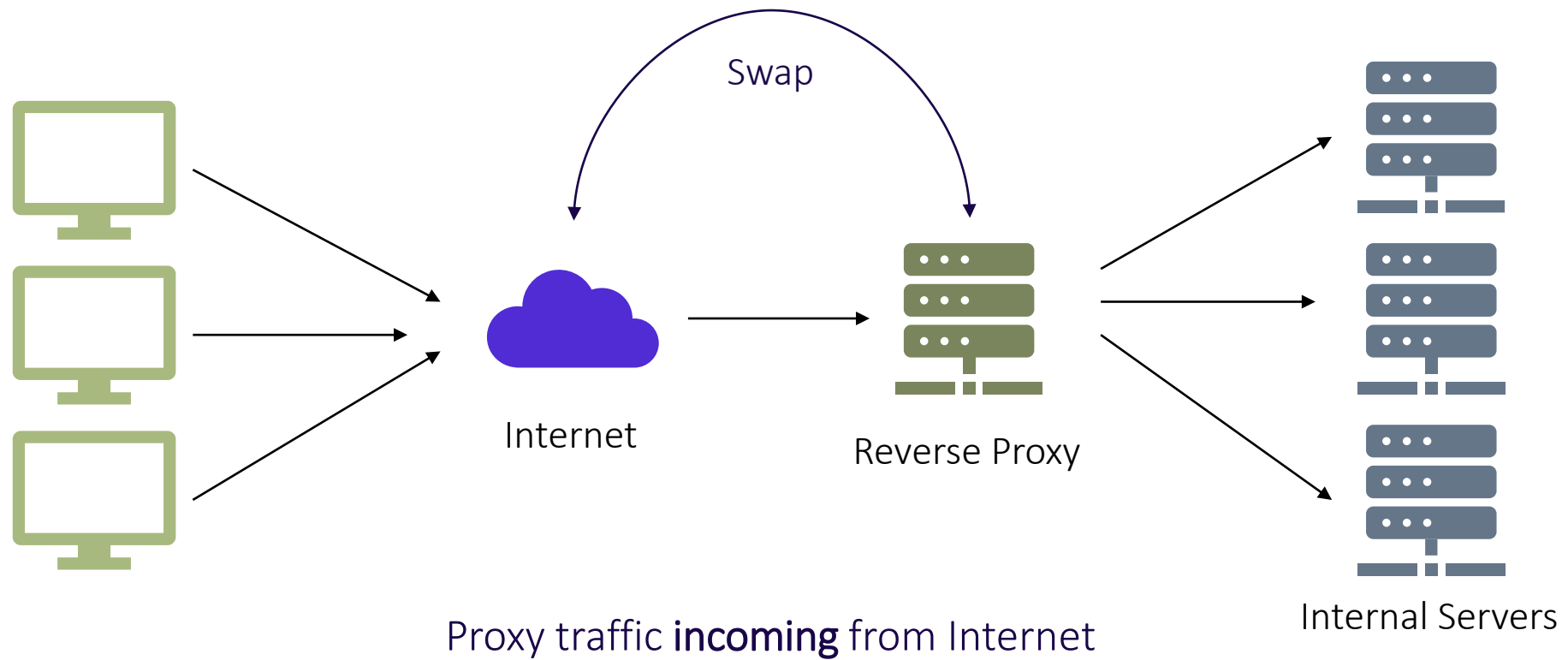
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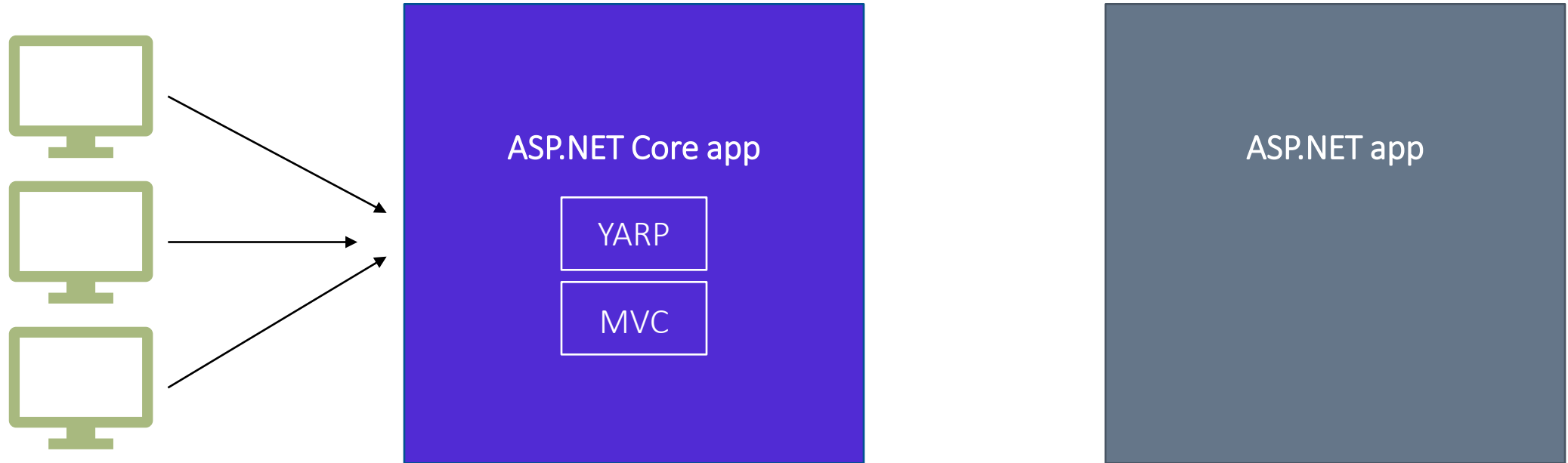
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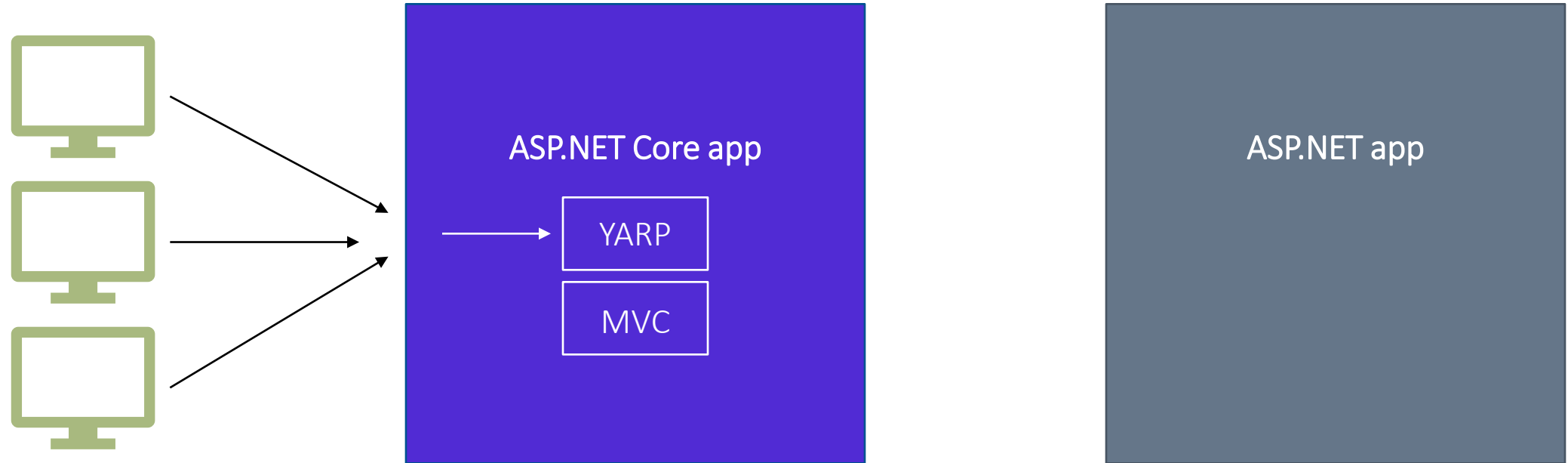
YARP

How it Works

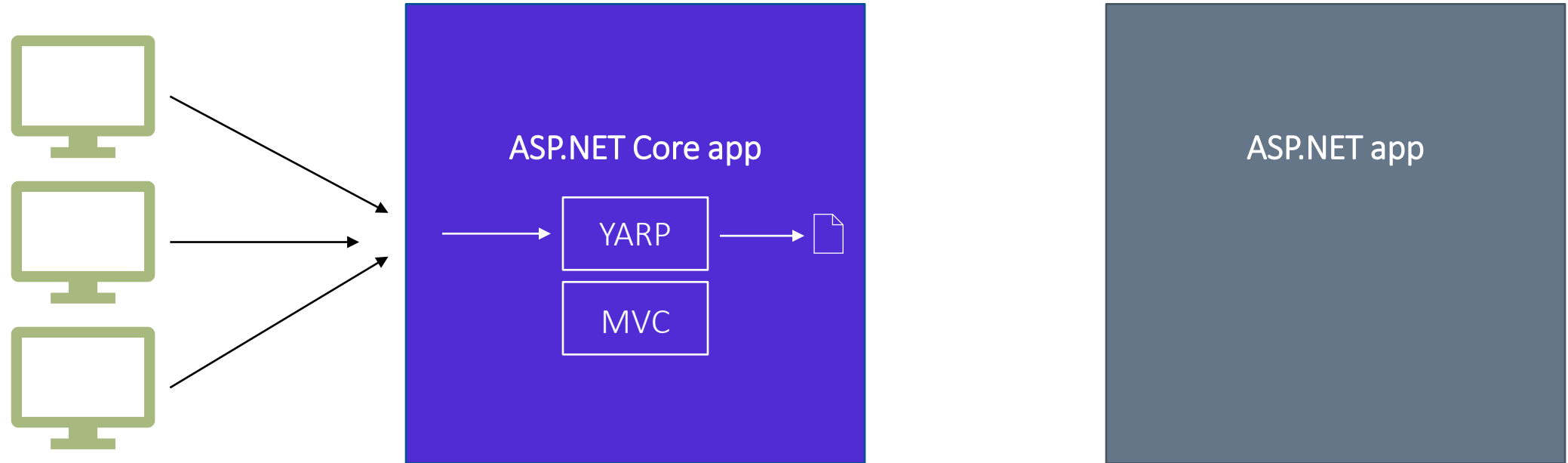
How YARP Works



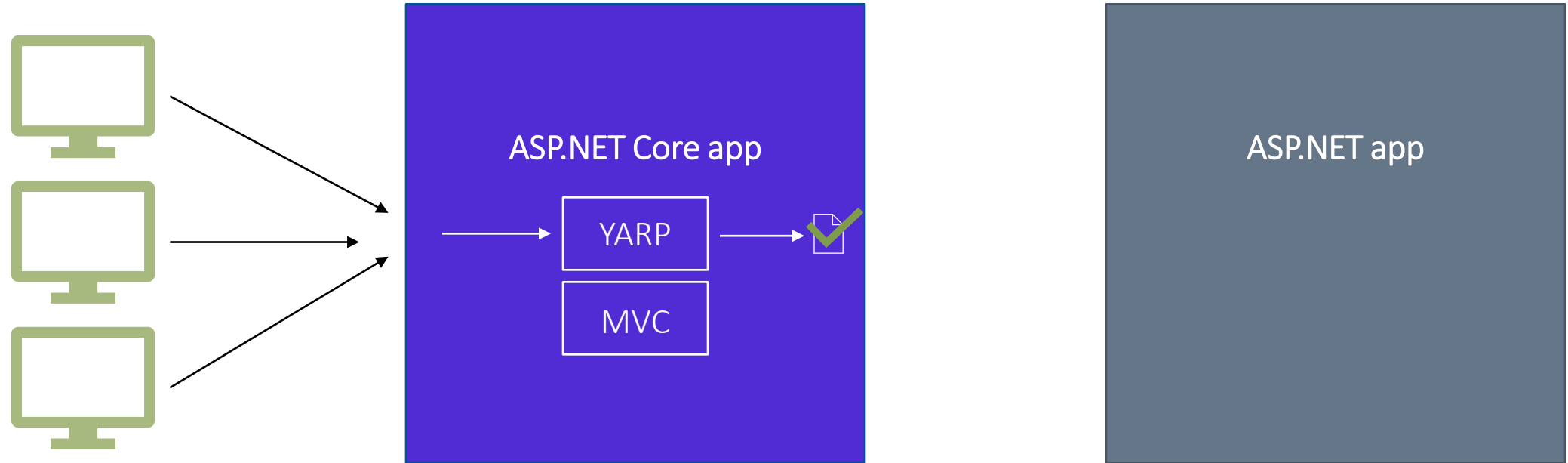
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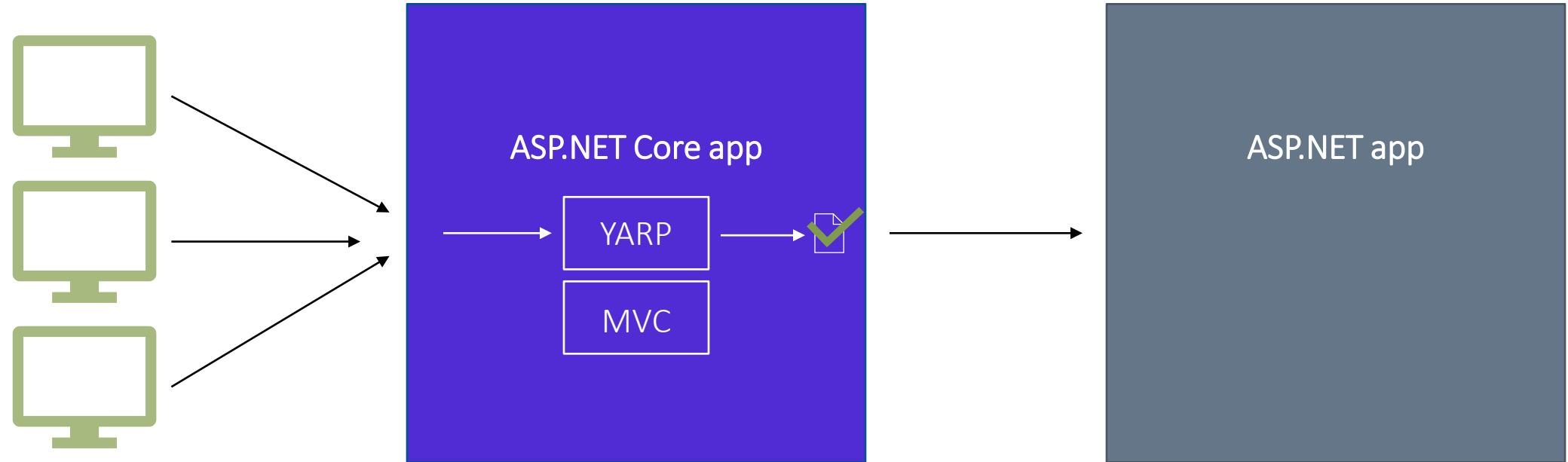
How YARP Works



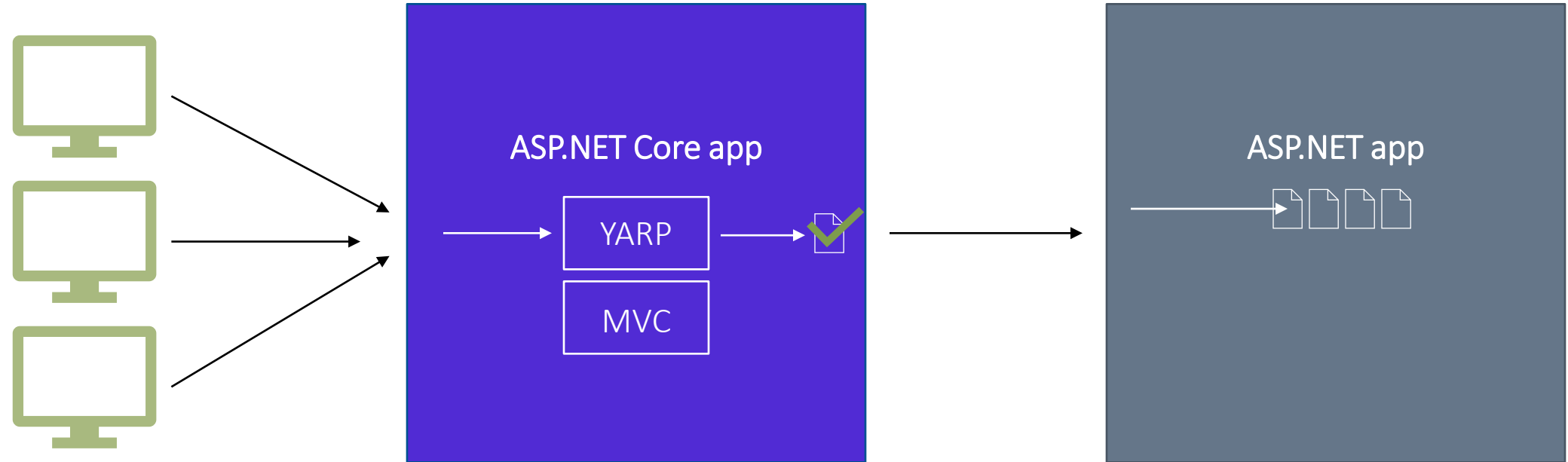
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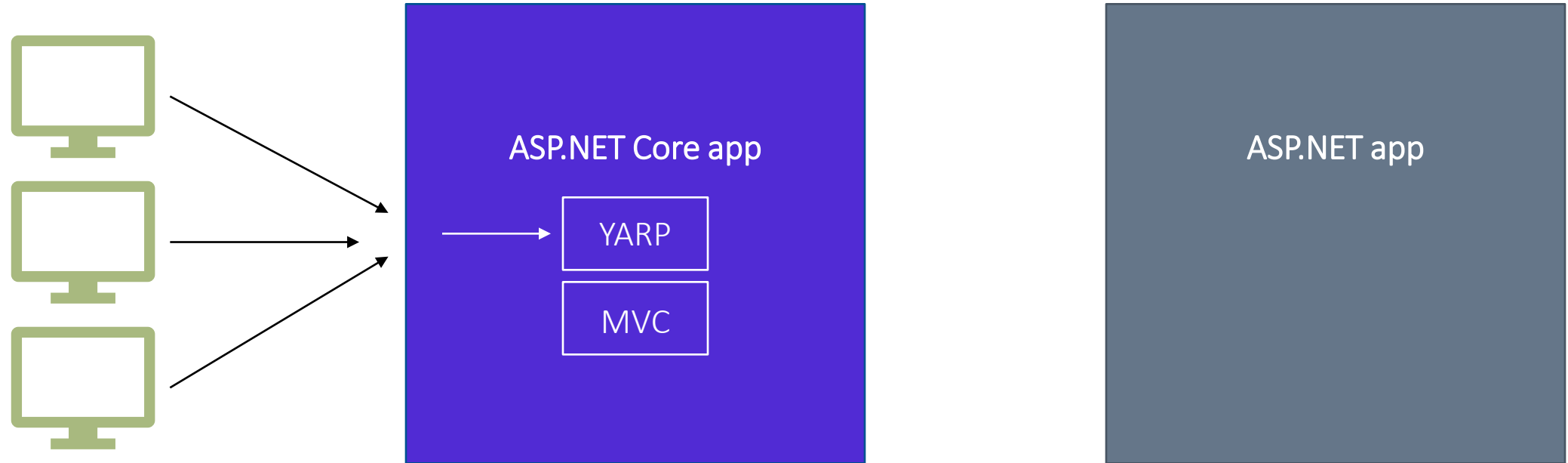
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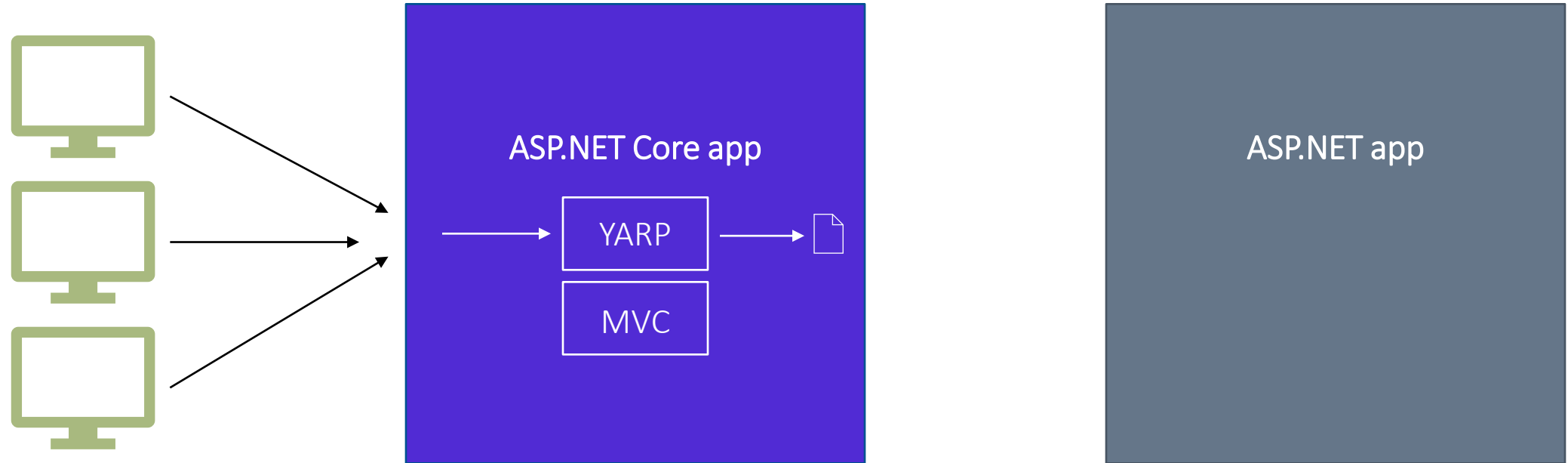
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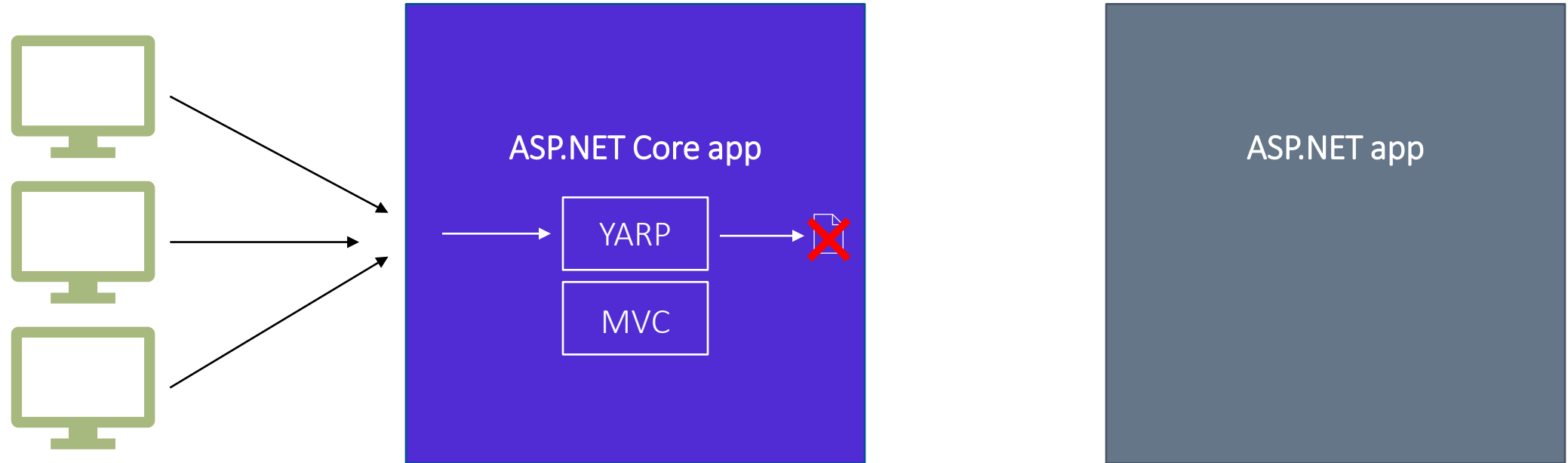
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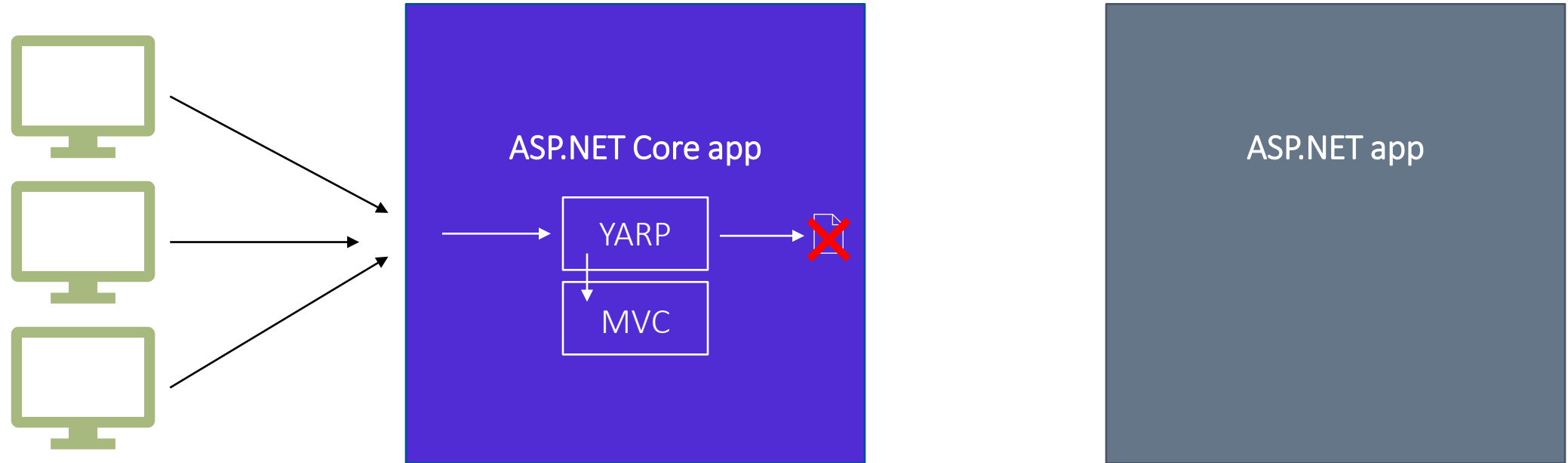
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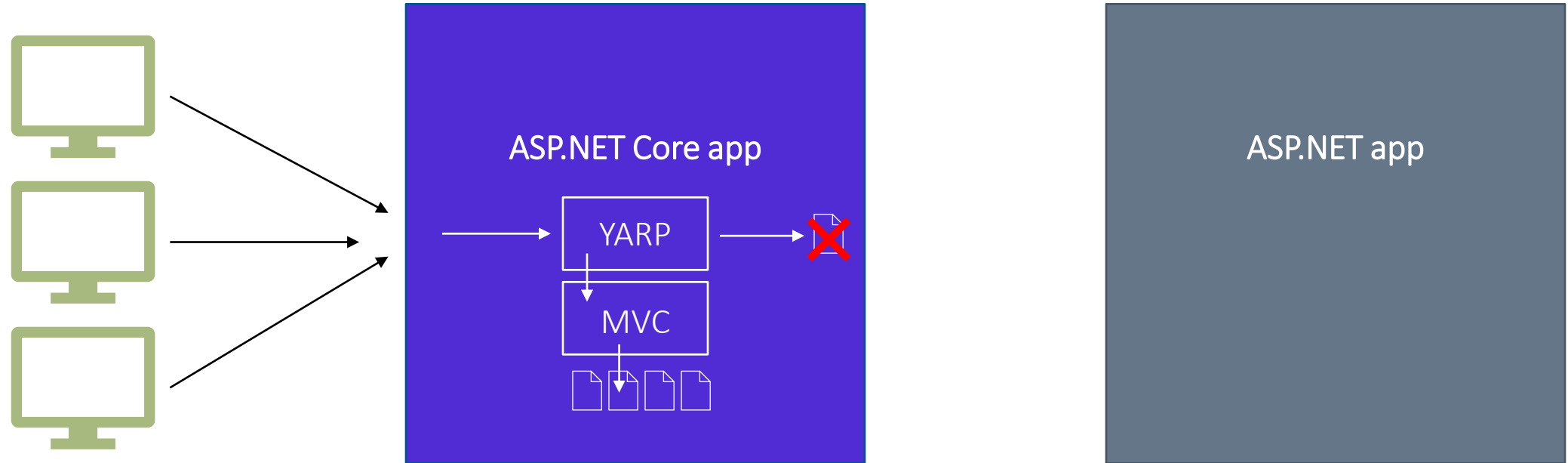
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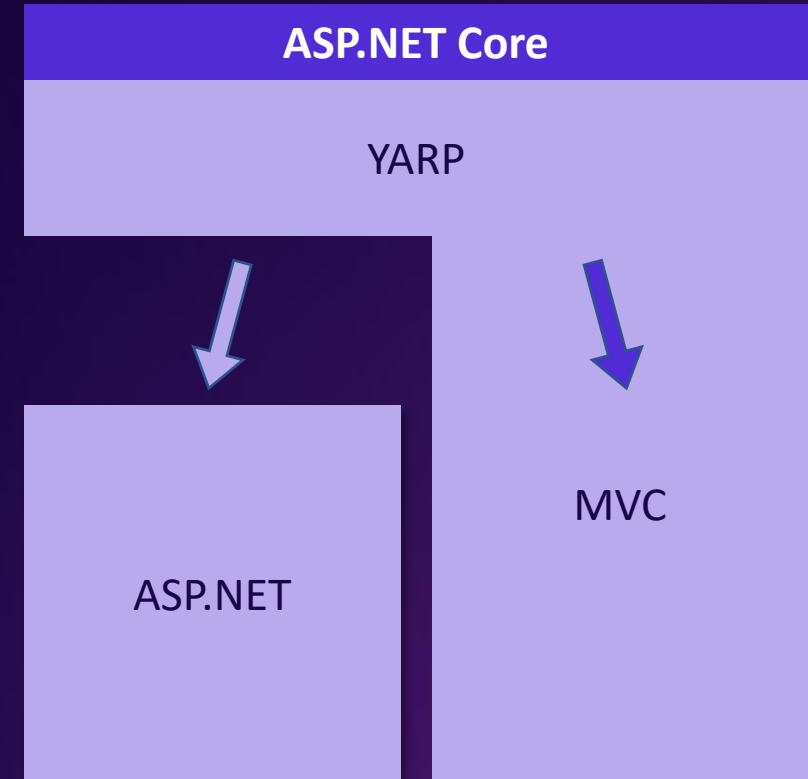
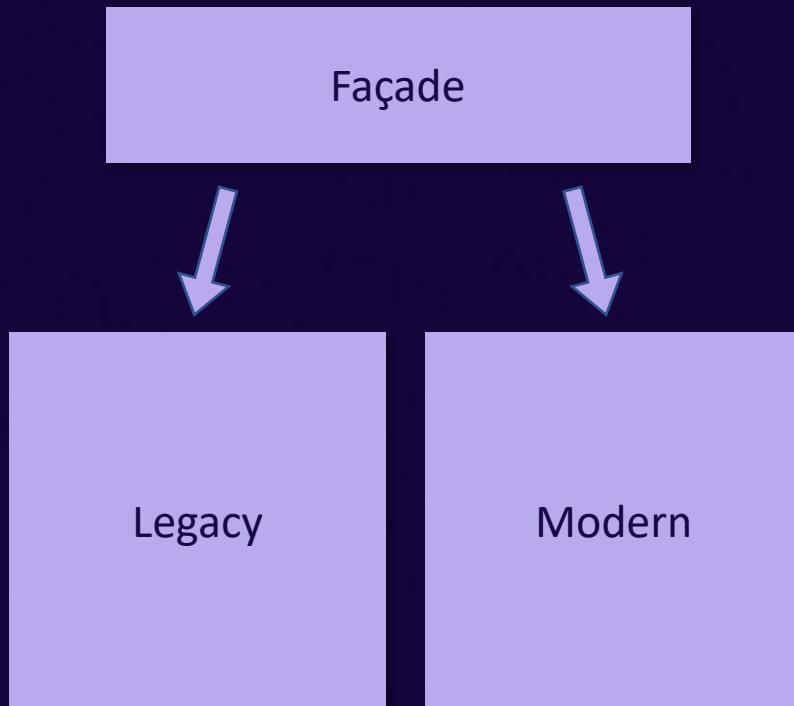
How YARP Works



How YARP Works



Strangler Fig : YARP



Let's See it in Action

YARP DEMO

Status of YARP

Released

- YARP v1.1.1 is live on NuGet

Unofficial

- Microsoft.AspNetCore.SystemWebAdapters is in release candidate
- Microsoft Project Migrations Visual Studio extension is experimental

Thank You! Questions?

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<https://github.com/jonathantower/yarp>