Moving Applications to the Cloud

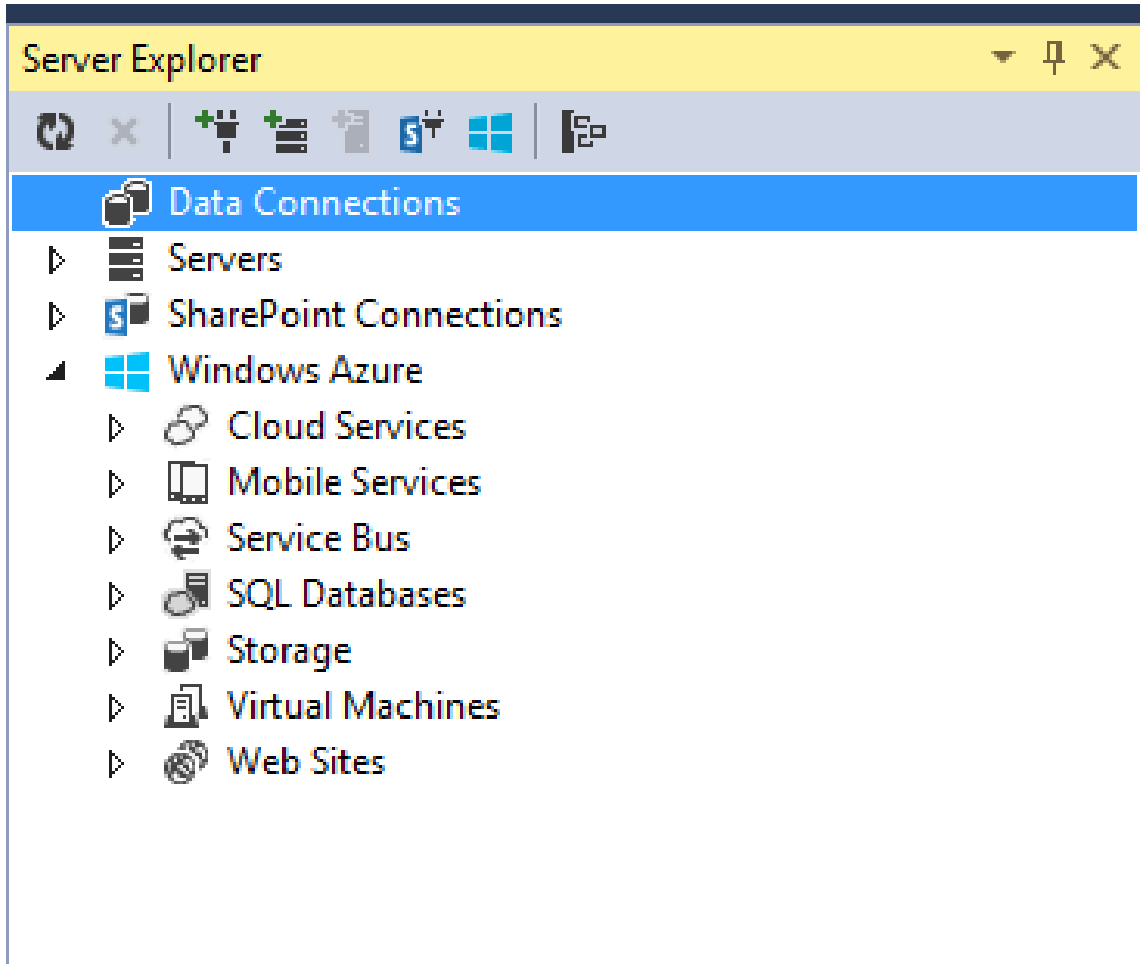
Overview

- Azure Website Concepts
- Manual Scaling
- Auto Scaling

Azure Website Concepts

Visual Studio Explorer

- Manage Azure from Visual Studio
  - Create web sites
  - Stop virtual machines
  - Filter subscriptions



Web Sites

Scalable

High-density and secure web hosting

Open publishing methods and protocols

Integrated and open solution

Automated

Lowers customer onboarding costs and streamlines upselling

Upsell from shared to reserved

Flexible

Support for PHP, Node.js, and ASP.NET

Metering and throttling of resources

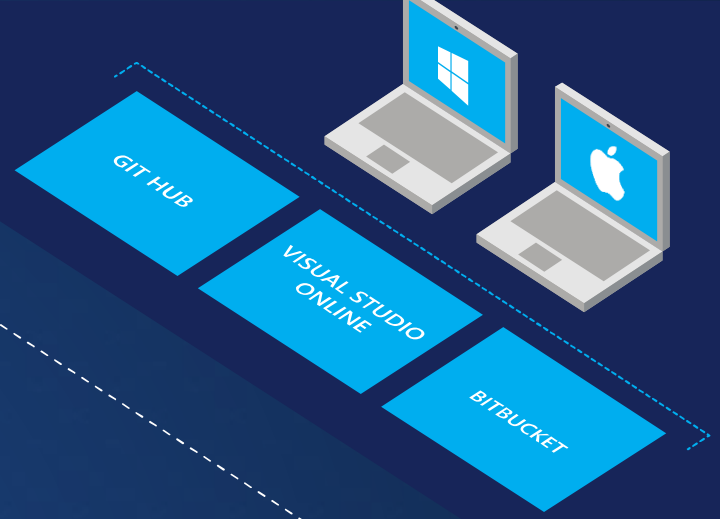
Fully integrated into Web App Gallery

Azure Websites

- Platform that enables you to deploy and scale modern websites and web apps in seconds
  - .NET, Java, PHP, Node.js, Python, and more
- Built-in AutoScale and Load Balancing
- High Availability with Auto-Patching
- Continuous Deployment with Git, TFS, GitHub
- Supports SQL databases, MySQL, DocumentDB, Search, MongoDB
- Supports WordPress, Umbraco, Joomla, Drupal

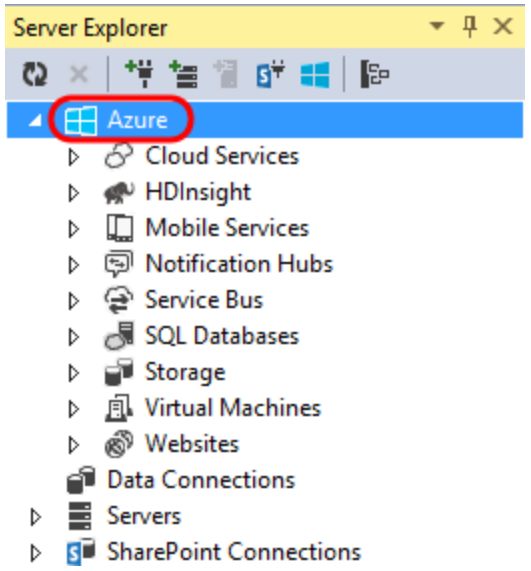
Develop apps with...

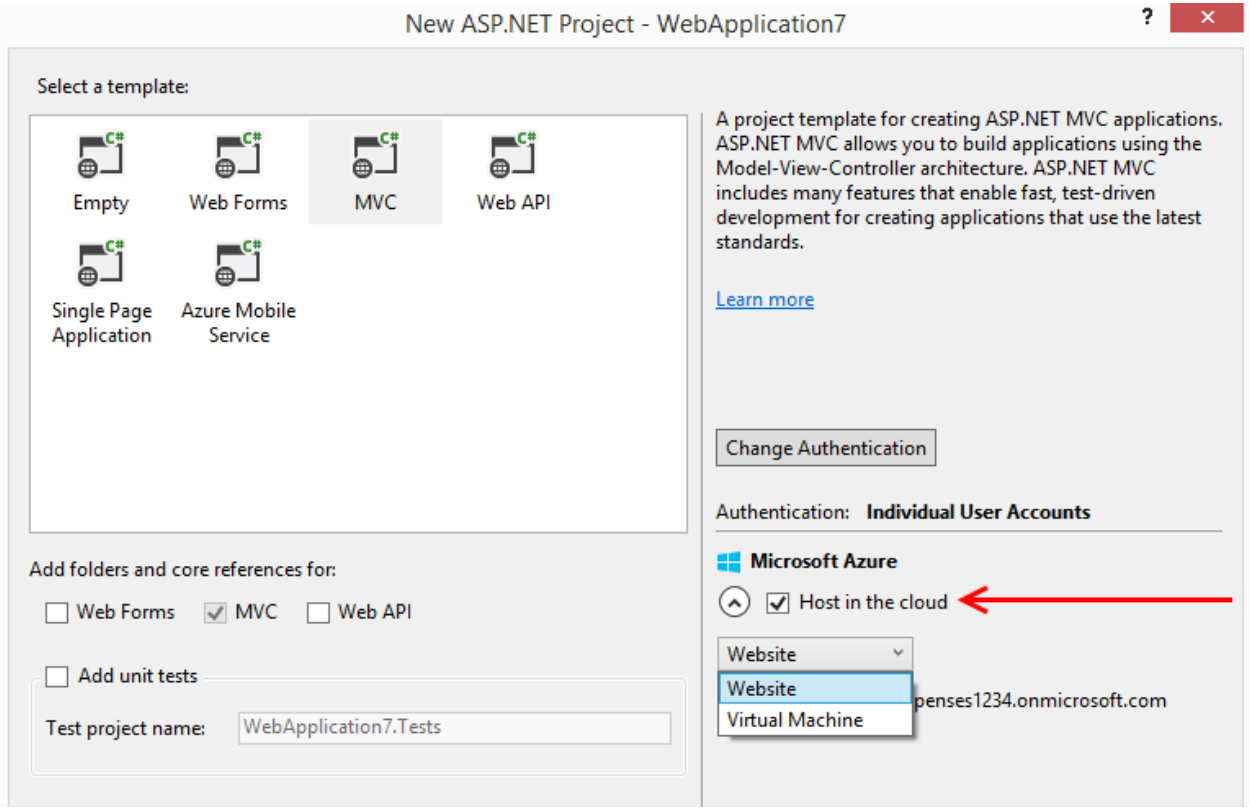
.NET	Node.js	PHP
Python	Java	



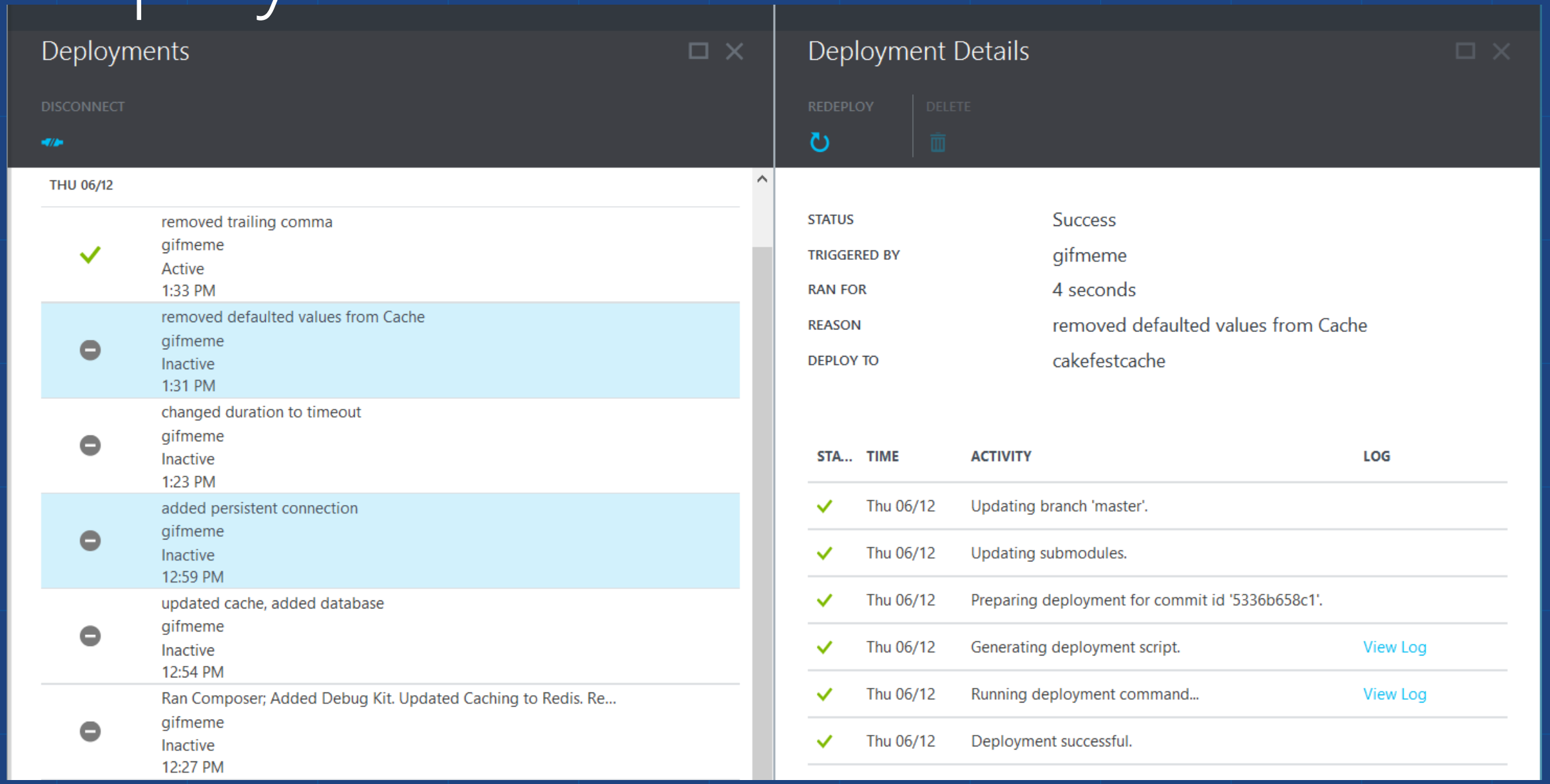
Visual Studio + Azure Websites

- Create Azure Resources during File / New
- Create Azure Website during deploy
- Manage with Server Explorer





Deployments



Manual Scaling

Microsoft

Manual Scaling

Instance Count 1 6 Instances

Auto Scaling

AutoScale

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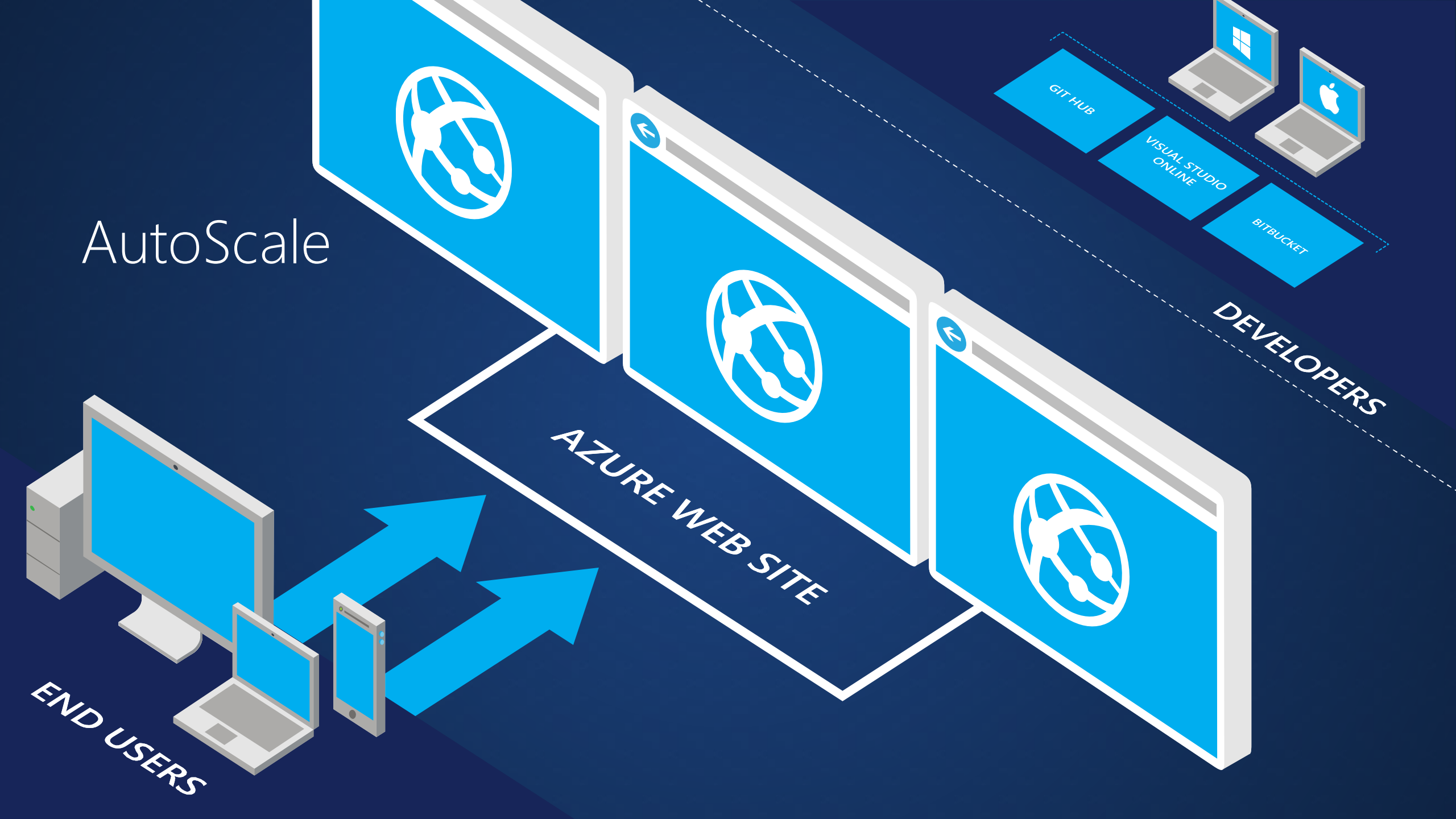
VISUAL STUDIO ONLINE
BITBUCKET
DEVELOPERS
AZURE WEB SITE
END USERS

AutoScale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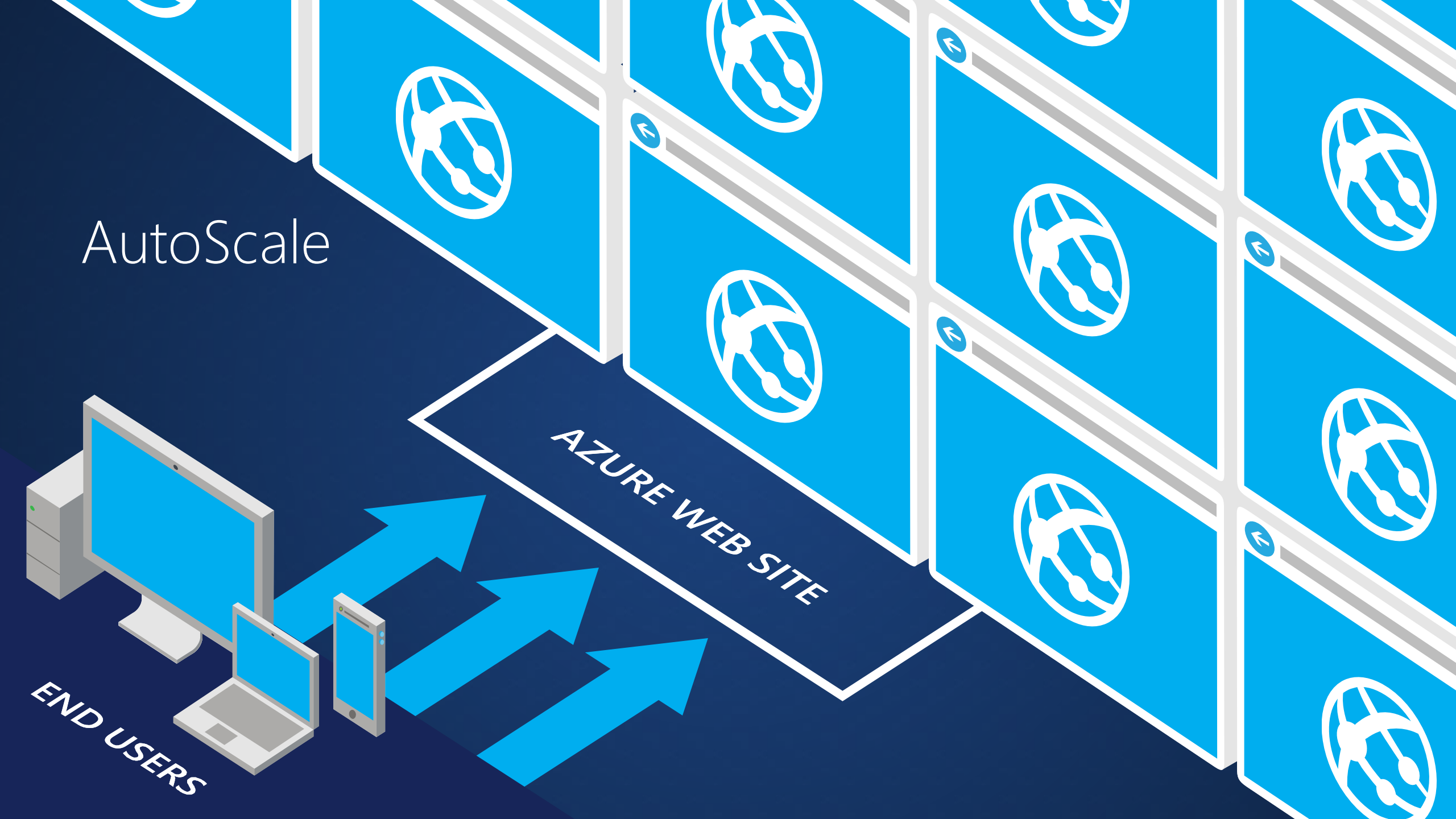
AutoScale



Auto-Scaling (Metric)

Instance Count 2 6 Instances

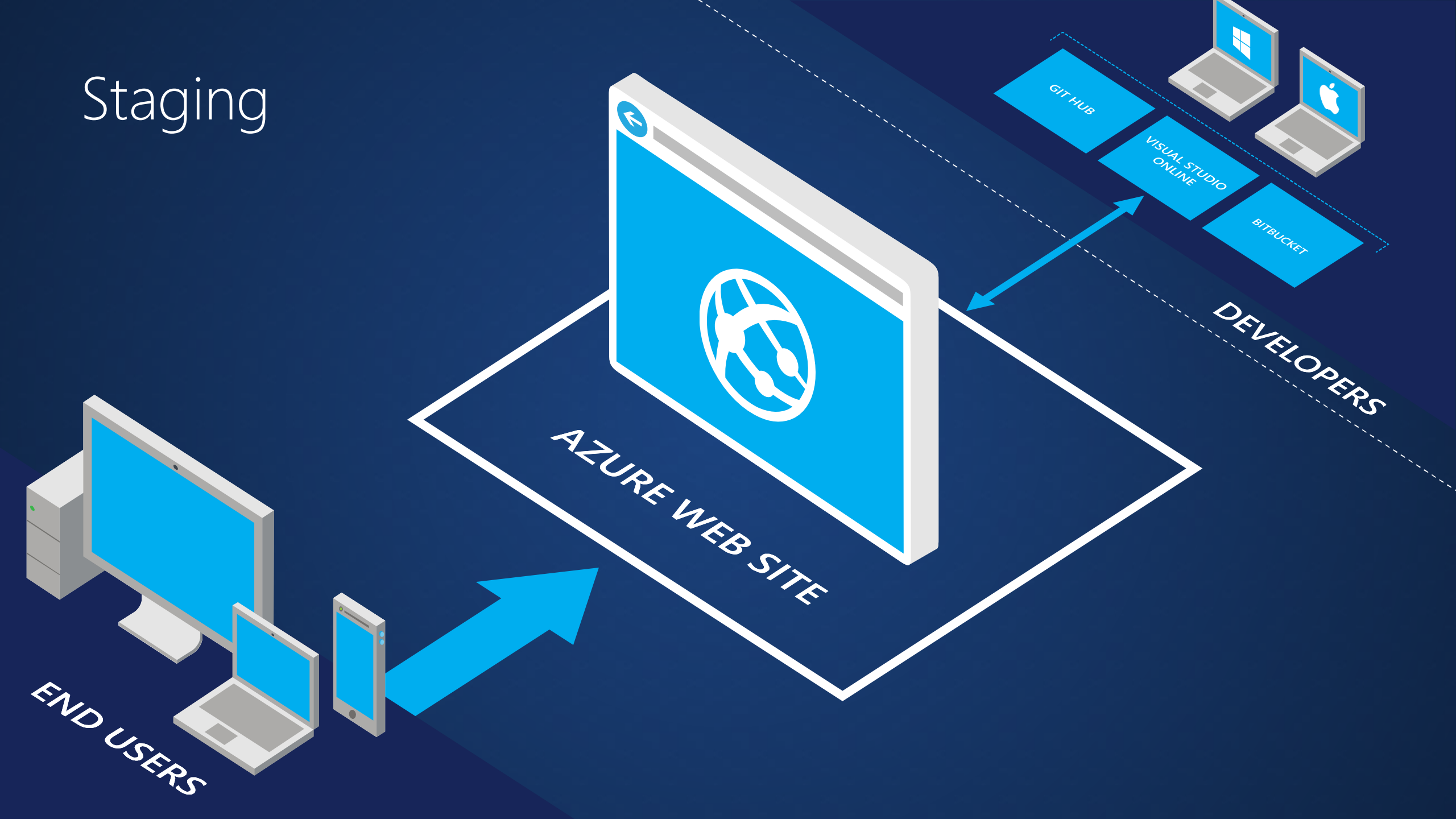
[Metric] 60 80 Percent

CPU Percentage | Memory Percentage | Disk Queue Length | HTTP Queue Length | Data In | Data Out

Auto-Scale Considerations

- Only Scales the Web Tier
- Scale Up/Down is not instantaneous

Staging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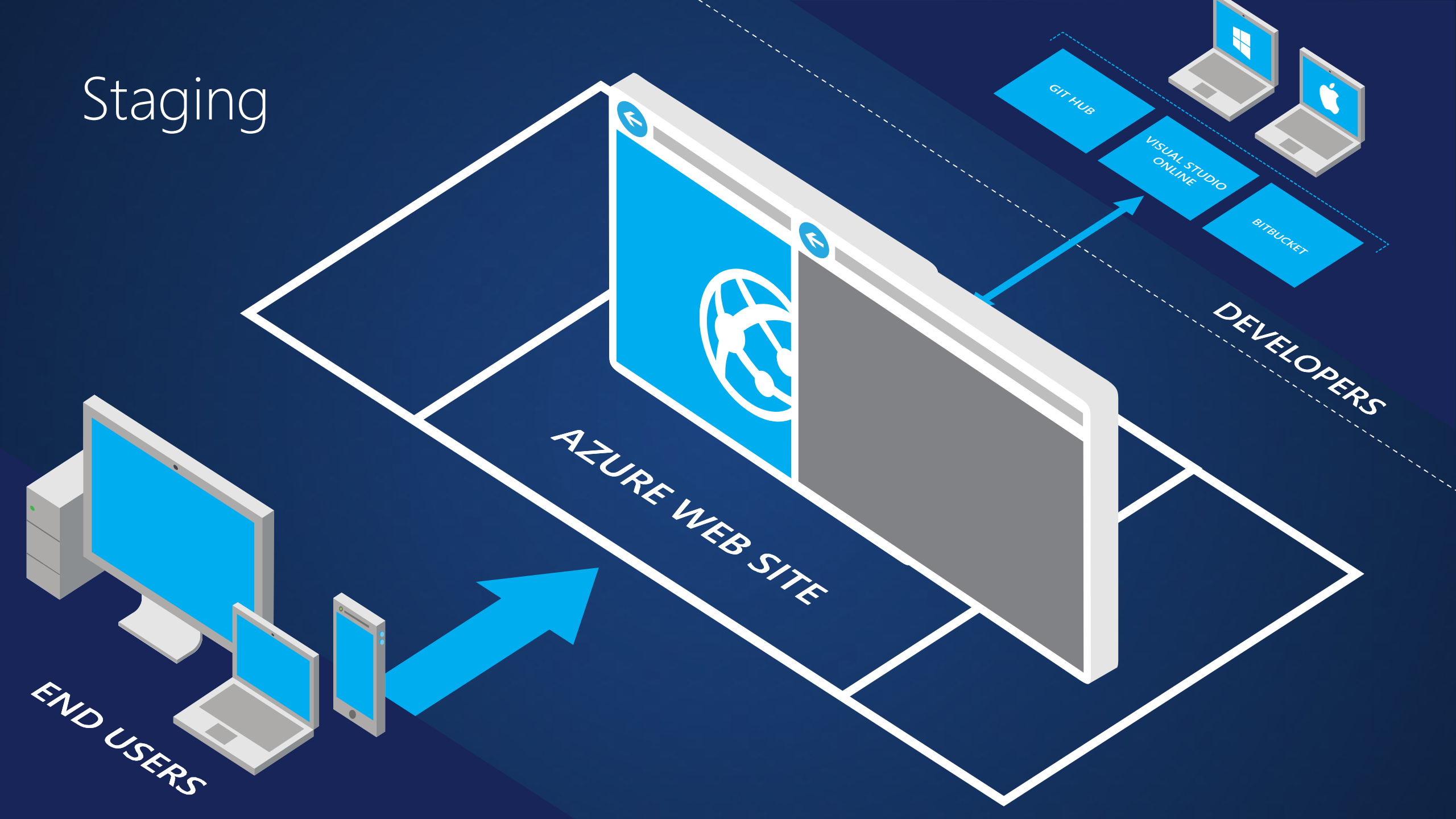
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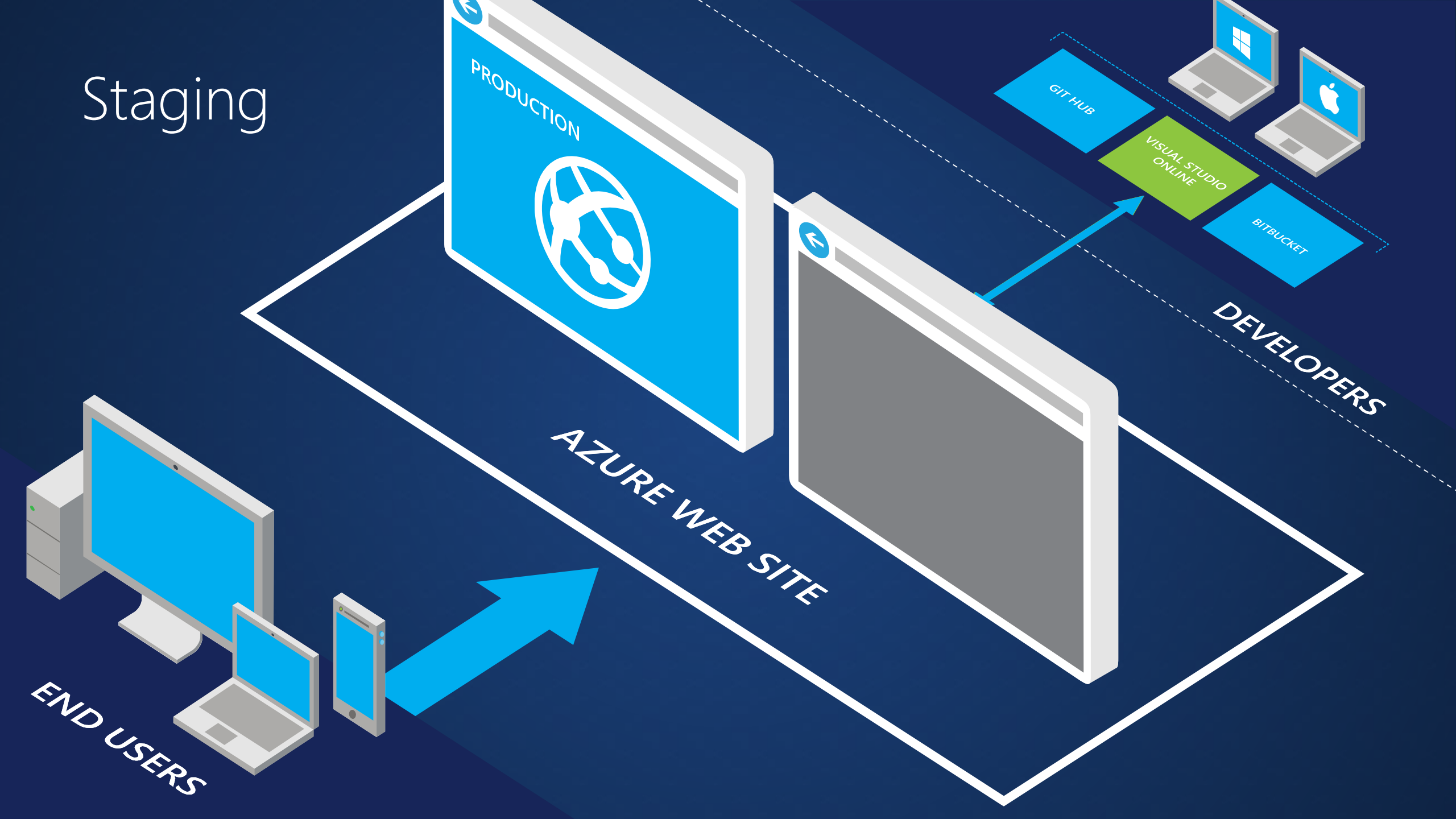
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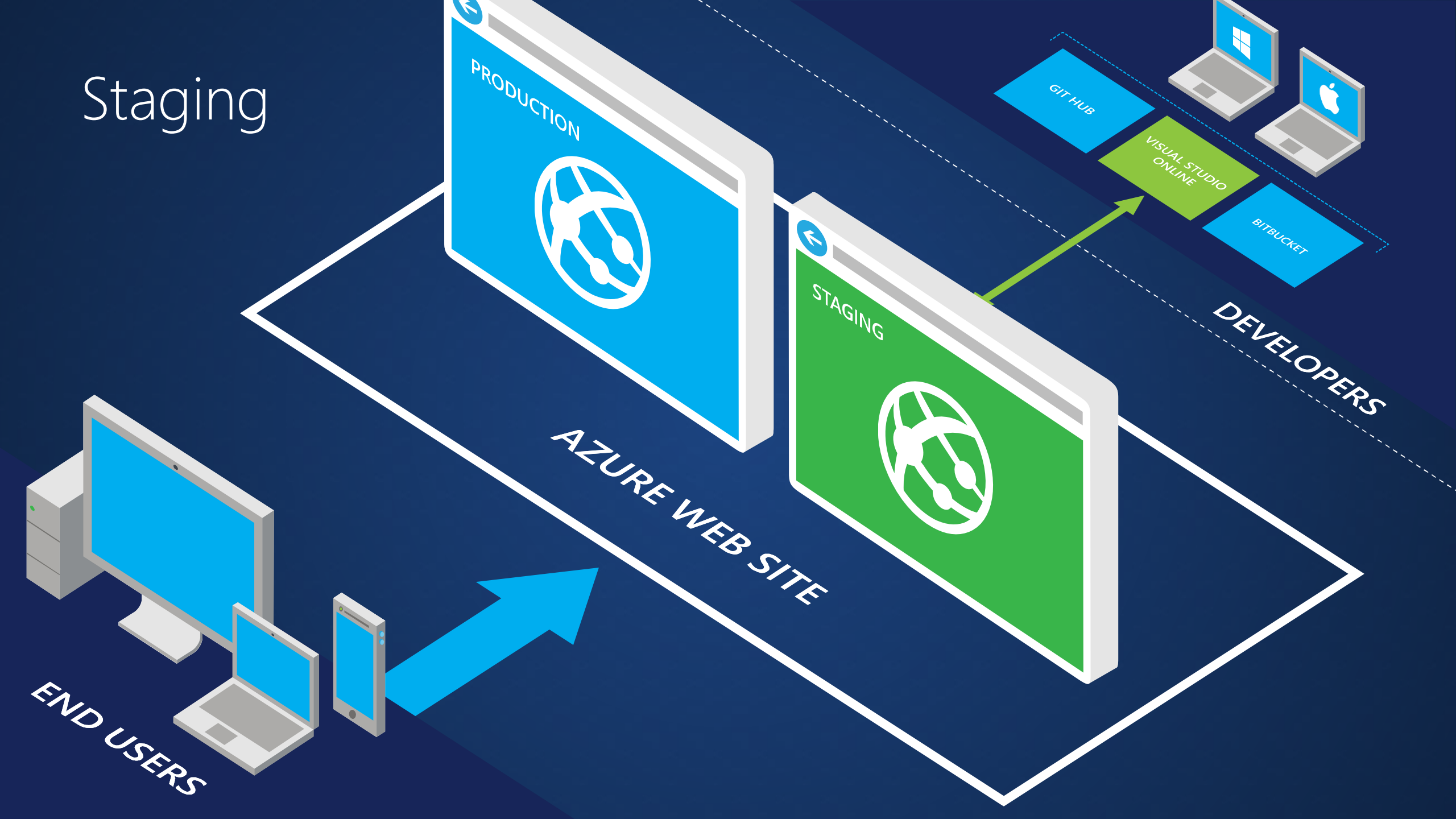
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WebJobs

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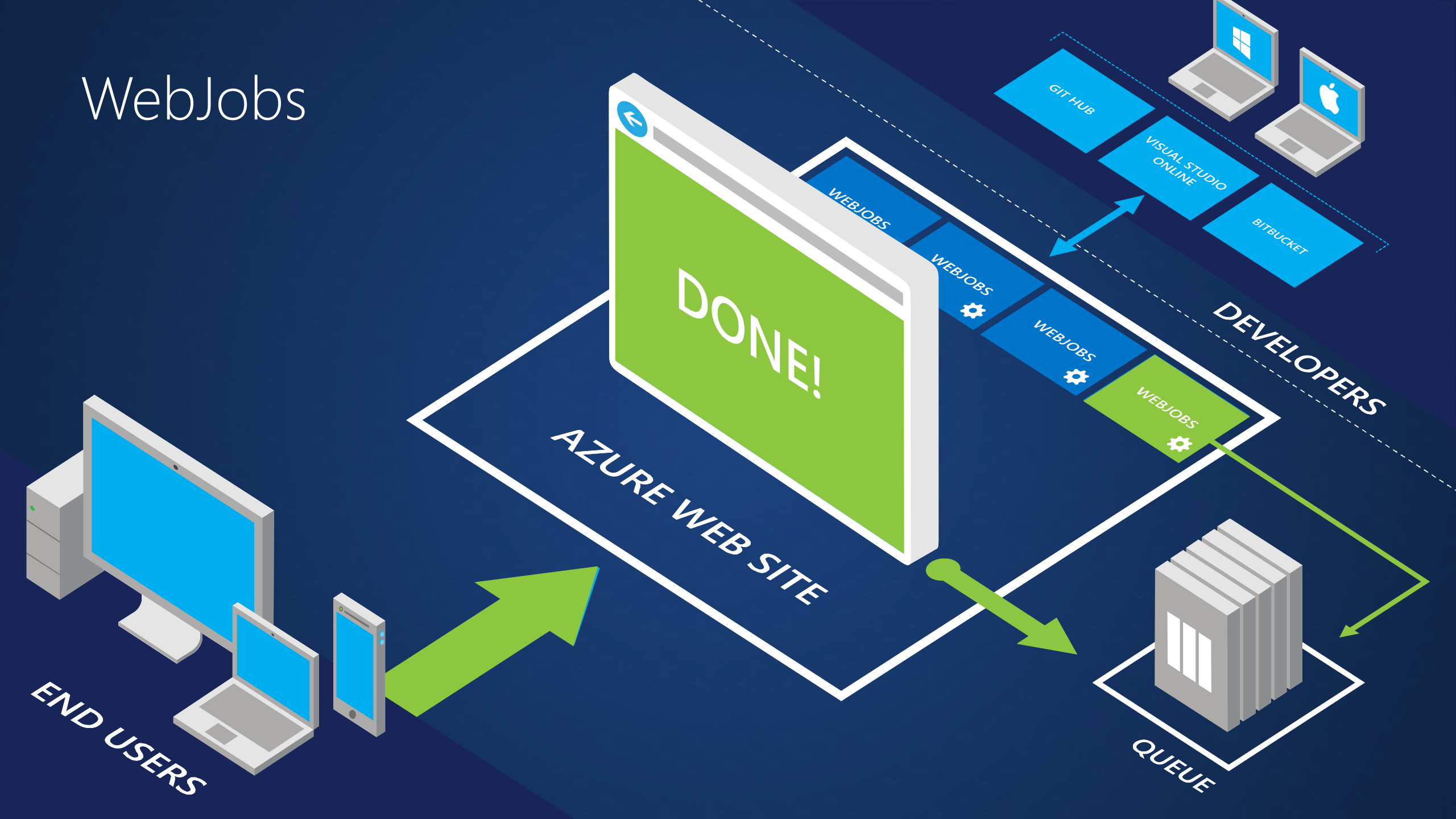
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