



# Deploy, Scale and Monitor

## SimplCommerce on Azure



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# SimplCommerce

- <https://github.com/simplcommerce/SimplCommerce/>
- The first commit is on Jan 13, 2016, target to .NET Full Framework 4.6
- May – 2016 switch to .NET Core 1.0 (RC2)
- Now .NET Core 2.0

## Stats:

- 2<sup>nd</sup> in Top Open-Source E-Commerce Platforms written in C# (<https://www.ecommwar.com>)
- 1144 stars, 375 forks and 22 contributors

# SimplCommerce – Technical stack

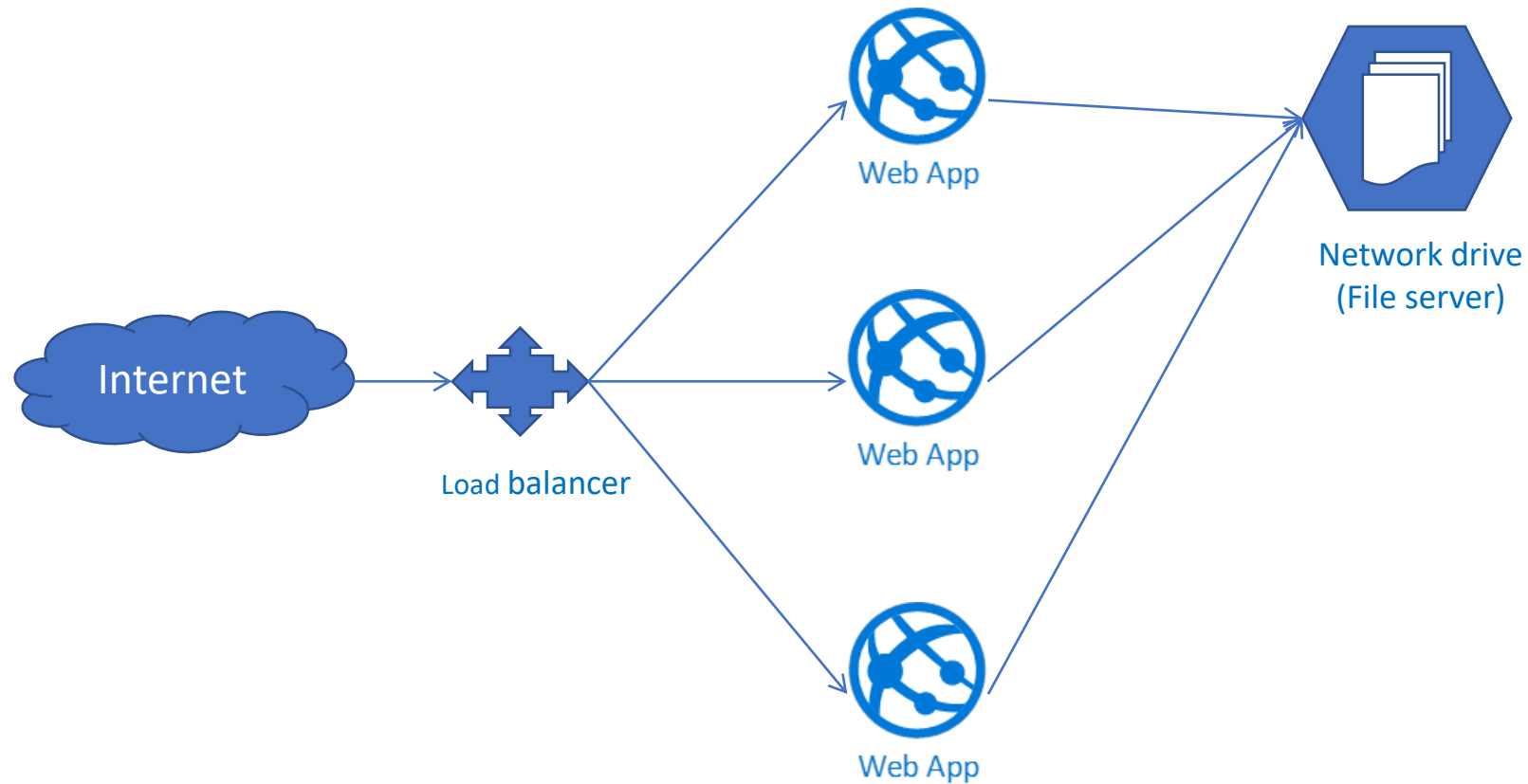
- ASP.NET MVC Core 2.0.0
- Entity Framework Core 2.0.0
- ASP.NET Identity Core 2.0.0
- Autofac 4.1.0
- AngularJS 1.6.3
- MediatR 3.0.1



# Azure Web Apps

- Supports .NET, Java, PHP, Node.js, and Python
- Built-in autoscale and load balancing
- High availability with auto-patching
- Continuous deployment with Git, TFS, GitHub, and Visual Studio Team Services
- Supports WordPress, Umbraco, Joomla, and Drupal

# Inside Web App Architecture

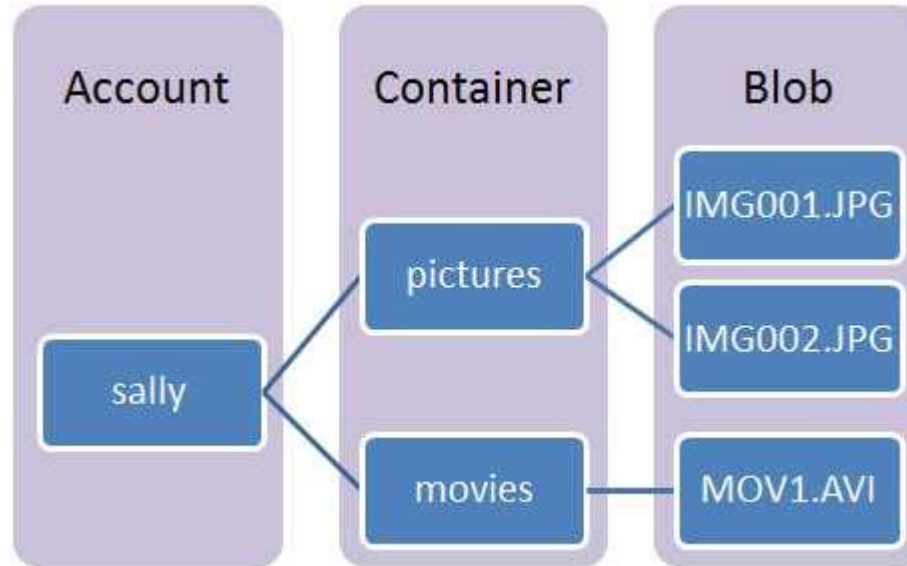


# Azure SQL Database

- A relational database-as-a-service
- Built-in high availability, disaster recovery, and upgrade mechanisms
- SQL Server authentication only
- No SQL Server Agent in SQL Azure
- Require less administration



# Blob Storage

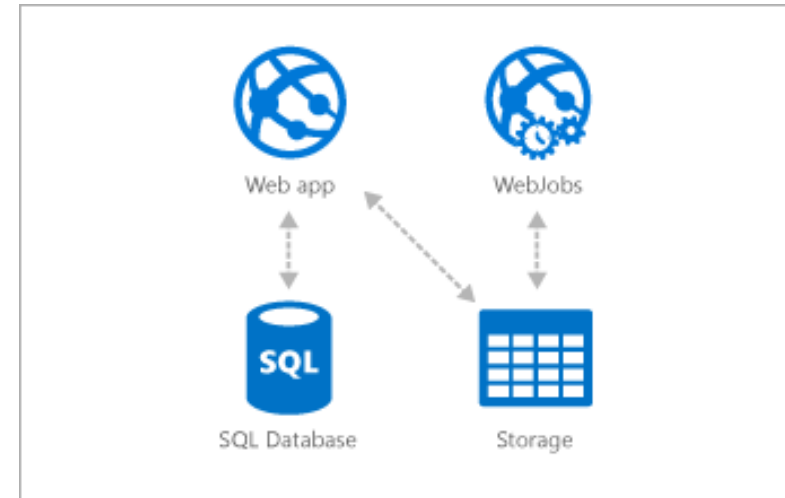


Account key is similar to the root password of storage account

# WebJob

Azure WebJobs provide an easy way to run scripts or programs as background processes

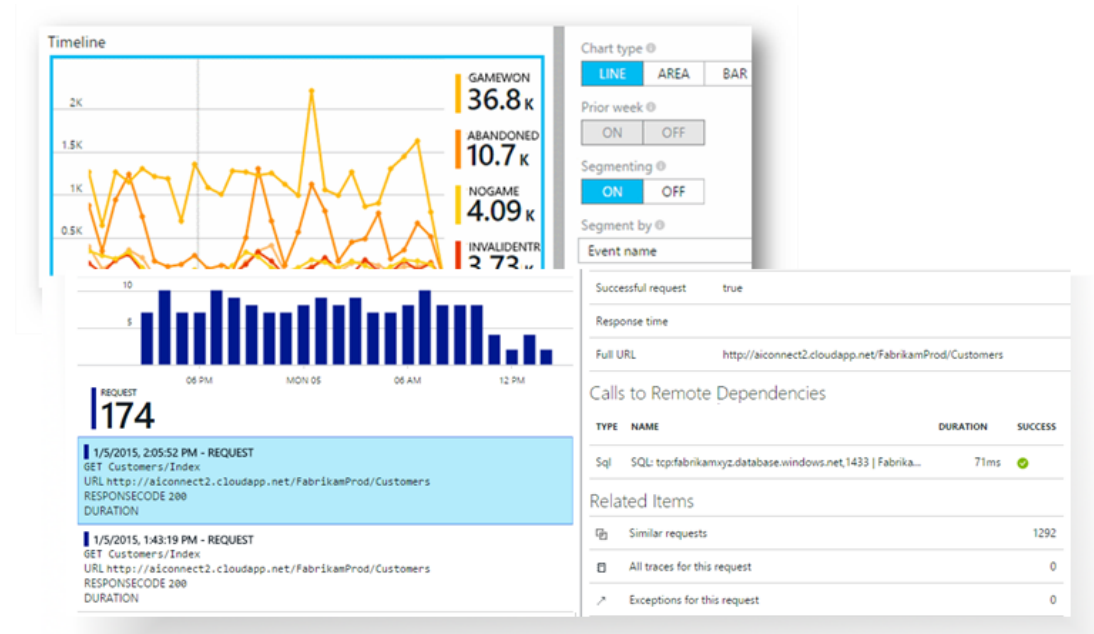
- Lightweight
- No cost
- WebJobs SDK
- Same context as a Web Apps



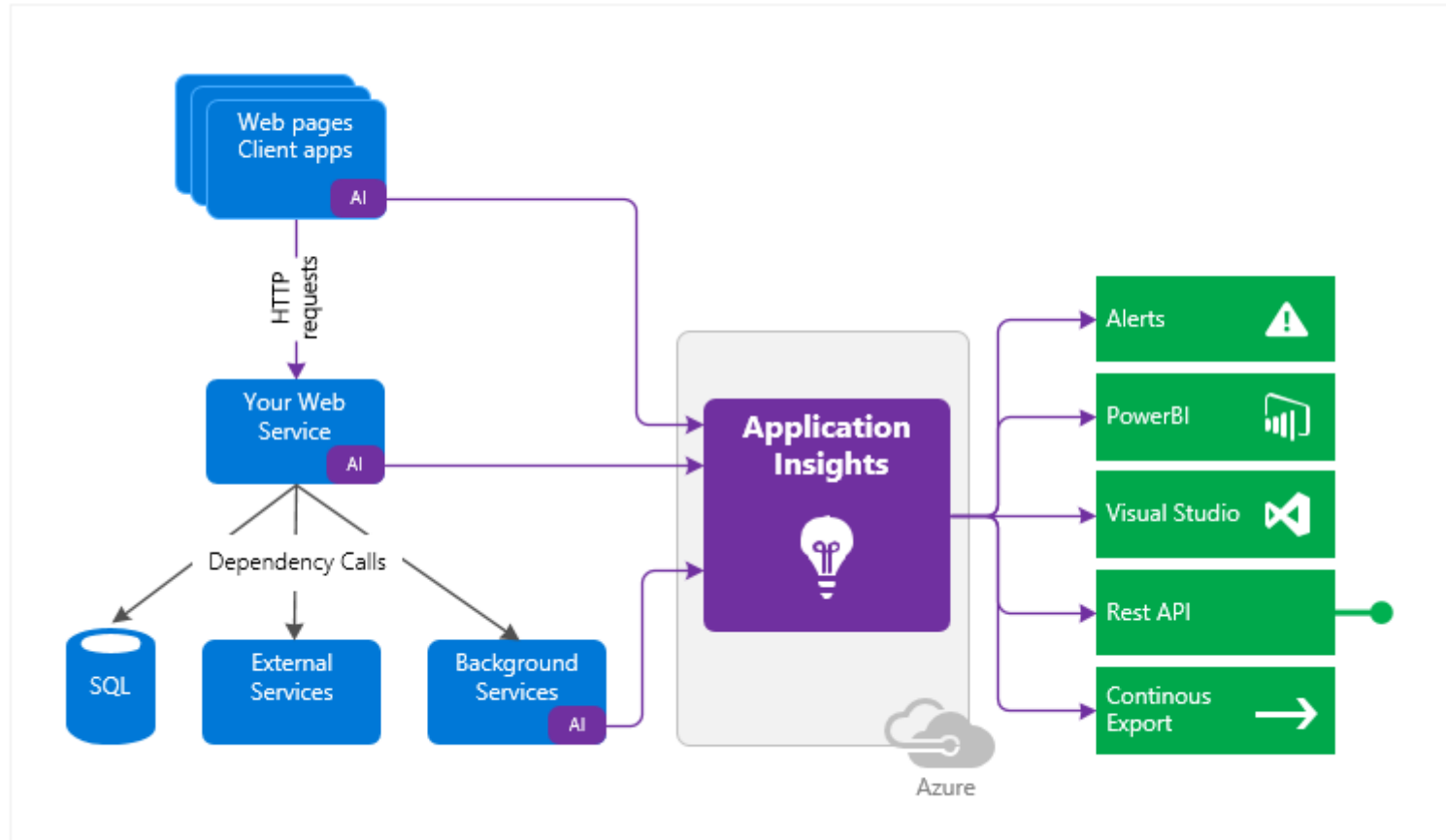


# Application Insights

- Monitor Azure websites
- Detect and diagnose exceptions and application performance issues
- Interactive data analytics



# How does Application Insights work?





<https://www.facebook.com/devcafevn/>

<https://github.com/devcafevn/>

<https://www.slideshare.net/devcafevn>