Deploy, Scale and Monitor

SimplCommerce on Azure

Thiện Nguyễn

Engineering Manager at NashTech

Microsoft MVP and Founder of SimplCommerce

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:

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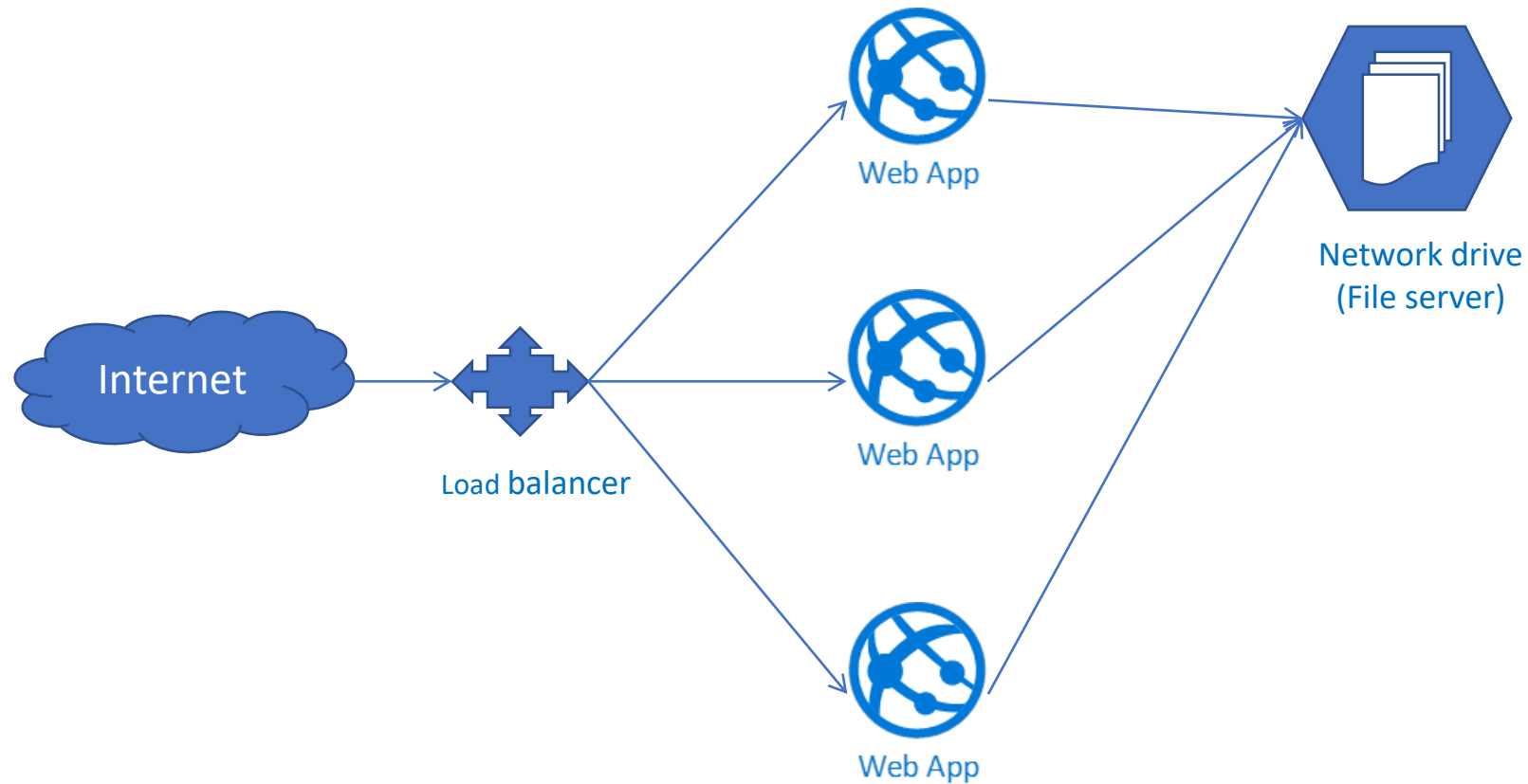
SimplCommerce – Technical stack

- 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
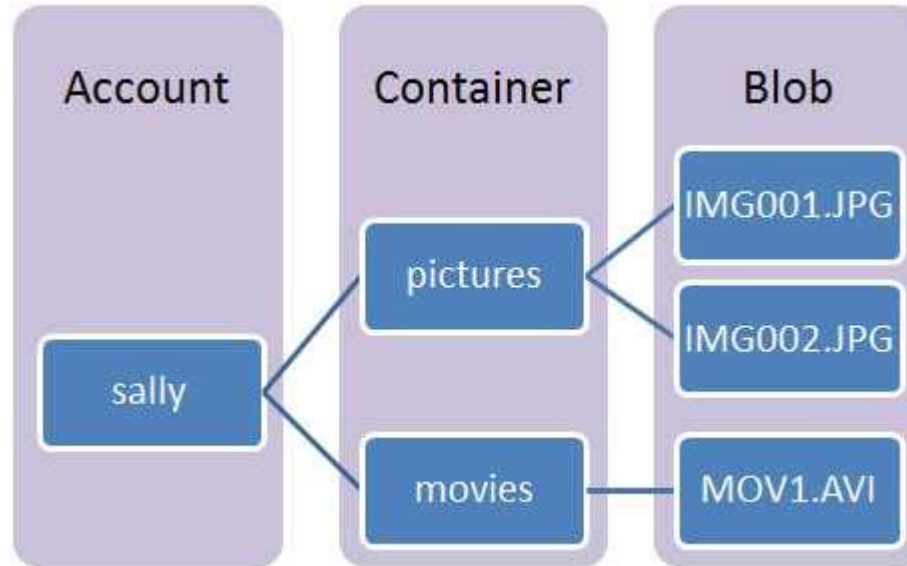
Inside Web App Architecture

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
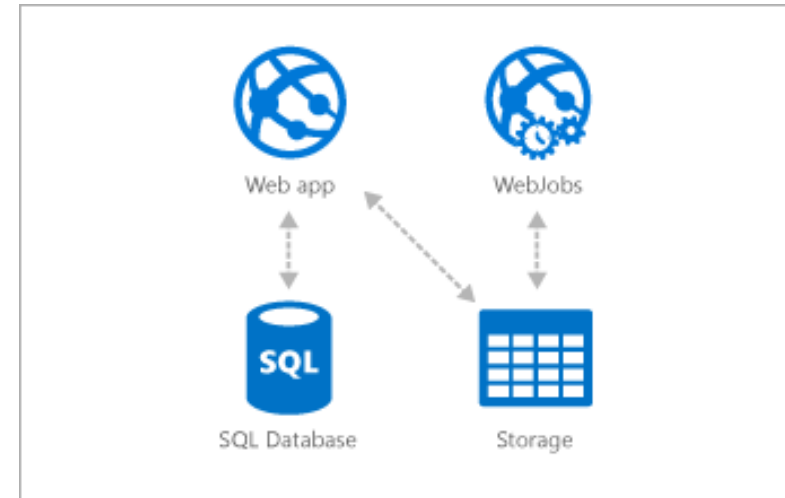
- Require less administration

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
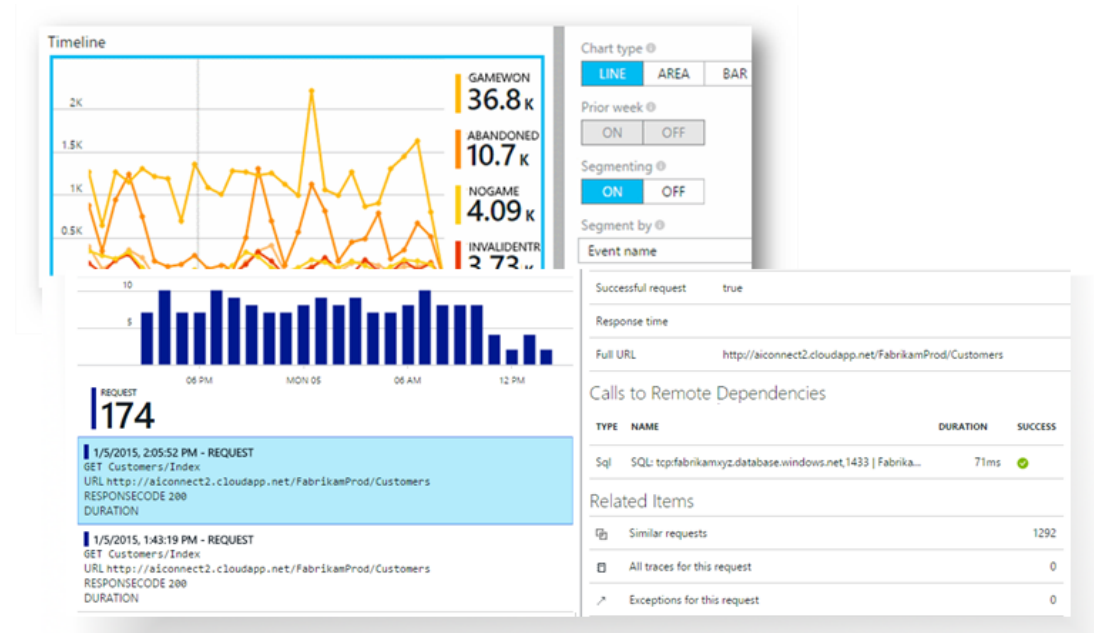
- Lightweight

- No cost

- WebJobs SDK

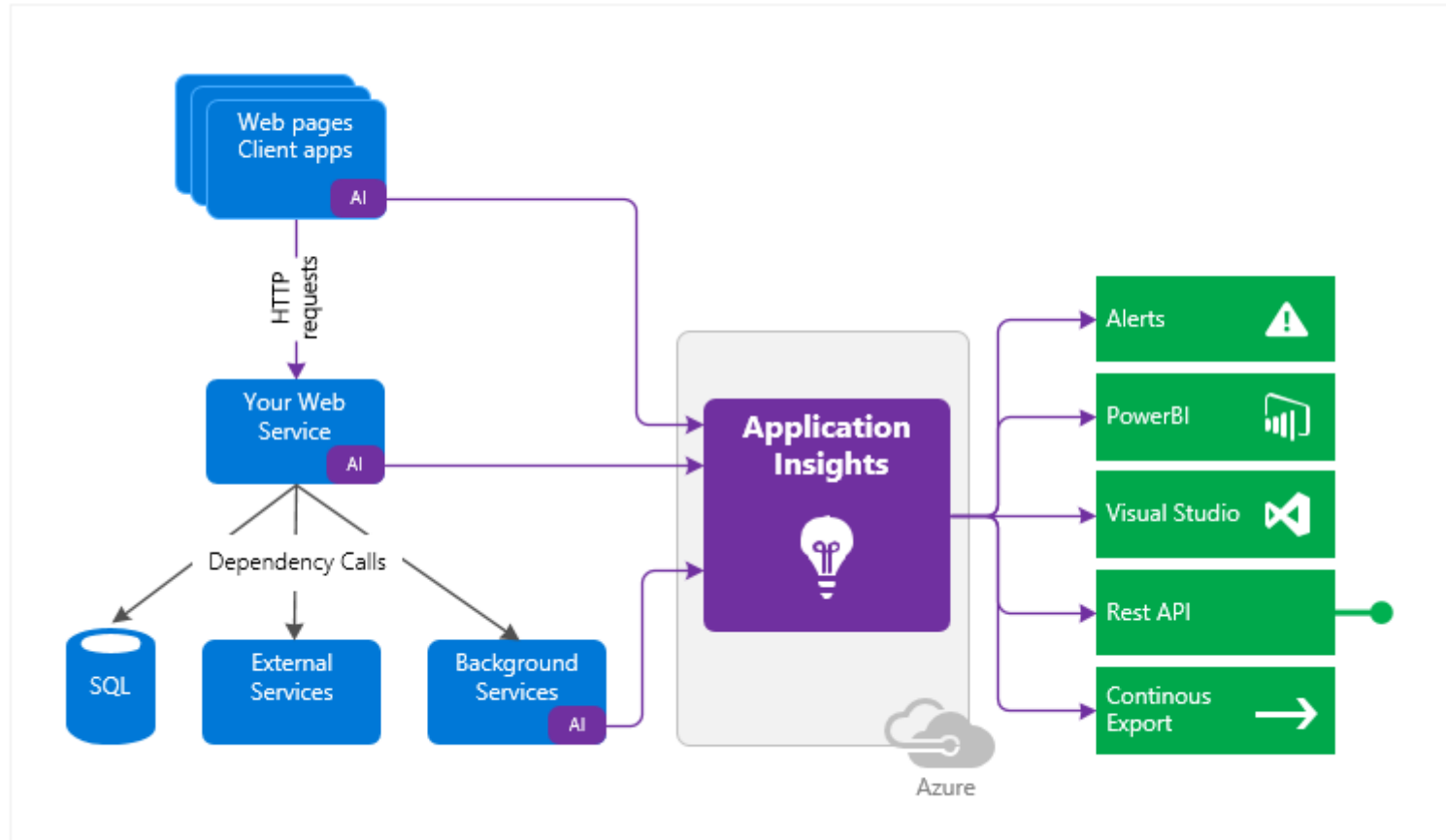- Same context as a Web Apps

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