

Azure Functions

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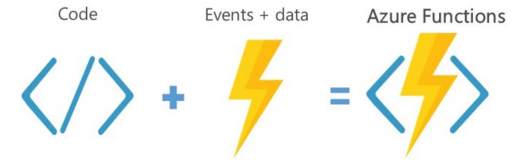


■ Azure Functions

- Build «serverless» event driven, scalable services
- Based on the Azure App Service platform
- Create Functions in
 - JavaScript
 - C#
 - Python
 - PHP
 - Bash, Batch and PowerShell scripting
- Trigger Functions by
 - virtually any event in Azure, 3rd party service, on-premise systems



■ Azure Functions



- Pay-per-use pricing model
- Embedded logging environment to monitor and troubleshoot executions
- Bring your own Code, use your favorite NuGet libraries
- Integrated security with OAuth providers
 - Azure Active Directory, Facebook, Google, Twitter, and Microsoft Account
- Simplified integration of Azure software-as-a-service (SaaS) offerings
- Flexible development
 - Code your functions right in the portal
 - set up continuous integration and deploy your through GitHub, Visual Studio Team Services
- The Functions runtime is open-source and available on GitHub

■ Demo

- Simple HTTP Request
 - Azure Functions in Azure Portal
 - Visual Studio

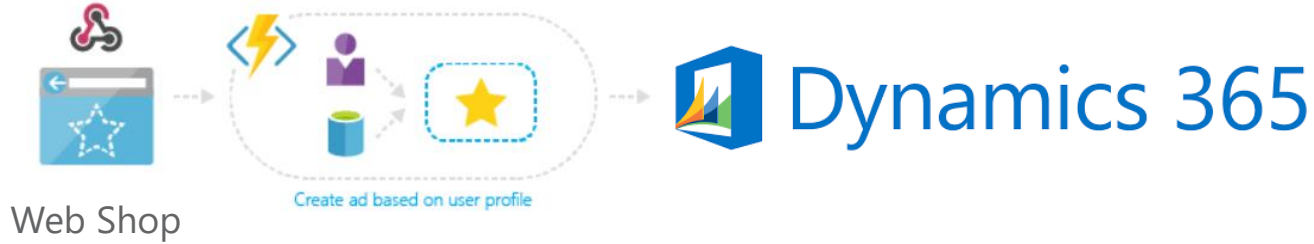
Triggers and Bindings

Type	Service	Trigger	Input	Output
Schedule	Azure Functions	✓		
HTTP (REST or webhook)	Azure Functions	✓		✓*
Blob Storage	Azure Storage	✓	✓	✓
Events	Azure Event Hubs	✓		✓
Queues	Azure Storage	✓		✓
Queues and topics	Azure Service Bus	✓		✓
Tables	Azure Storage		✓	✓
Tables	Azure Mobile Apps		✓	✓
No-SQL DB	Azure DocumentDB		✓	✓
Push Notifications	Azure Notification Hubs			✓
Twilio SMS Text	Twilio			✓

■ Integrate Azure and 3rd-party services


- Azure DocumentDB
- Azure Event Hubs
- Azure Mobile Apps (tables)
- Azure Notification Hubs
- Azure Service Bus (queues and topics)
- Azure Storage (blob, queues, and tables)
- GitHub (webhooks)
- On-premises (using Service Bus)
- Twilio (SMS messages)

Demo



Project Oxford API

- <https://www.projectoxford.ai/emotion>
- Get your key




Emotion - Preview Created on 3/12/2017 4:39:55 PM

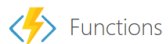
30,000 transactions per month, 20 per minute.
State: active

Key 1:XXXXXXXXXXXXXXXXXXXXXXXXXXXXX [Regenerate](#) | [Show](#) | [Copy](#)
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Pricing Sample



REGION:
West Europe

The first 400,000 GB/s of execution and 1,000,000 executions are free.

Executions

$$\begin{matrix} 512 \\ \text{Memory size:} \end{matrix} \times \begin{matrix} 1 \\ \text{Execution time (in} \\ \text{seconds)} \end{matrix} \times \begin{matrix} 10000000 \\ \text{Executions per month} \end{matrix} = \text{CHF66.47/MO}$$

Requests

$$\begin{matrix} 10000000 \\ \text{Execution count} \end{matrix} = \text{CHF1.63/MO}$$

Sub-total CHF68.09/mo



REGION: West Europe TIER: Basic

INSTANCE SIZE: B1: 1 cores, 1.75 GB RAM, 10 GB Storage, CHF0.068/hr

$$\begin{matrix} 1 \\ \text{Instances} \end{matrix} \times \begin{matrix} 744 \\ \text{Hours} \end{matrix} = \text{CHF50.39/MO}$$

- Billed based on resource consumption and executions
- Consumption plan pricing includes a monthly free grant of 1 million requests and 400,000 GB-s of resource consumption per month
- A storage account is created by default for an Functions App. The storage account is not included in the free grant and any usage will be charged at standard storage rates
- Run Functions within App Service (PaaS), pay regular [App Service plan rates](#)

Thank you!

Any questions ?



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