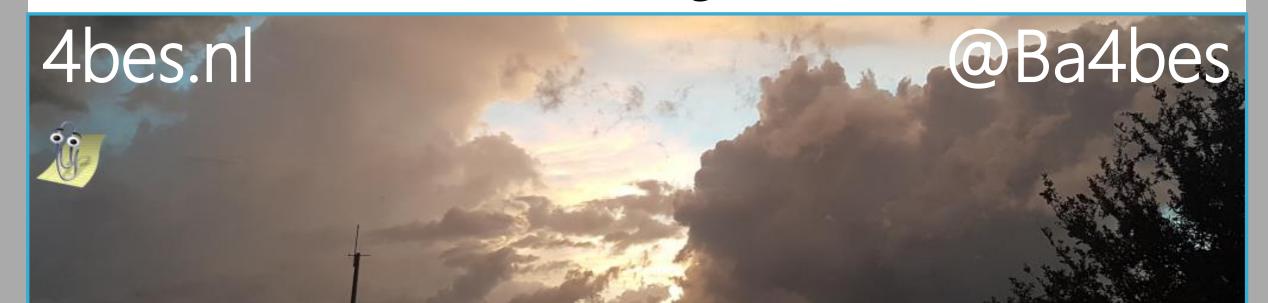
# When powers combine: Azure Function Apps & PowerShell

Barbara Forbes
Azure MVP, MCT
IT Consultant @ SCCT



#### When Powers Combine

PowerShell & Azure Function apps

Deploying function apps

• Show case: a raffle



#### PowerShell







https://github.com/PowerShell/PowerShell

#### Azure Function apps

Serverless compute

Event based triggers

Connectivity with other Azure services

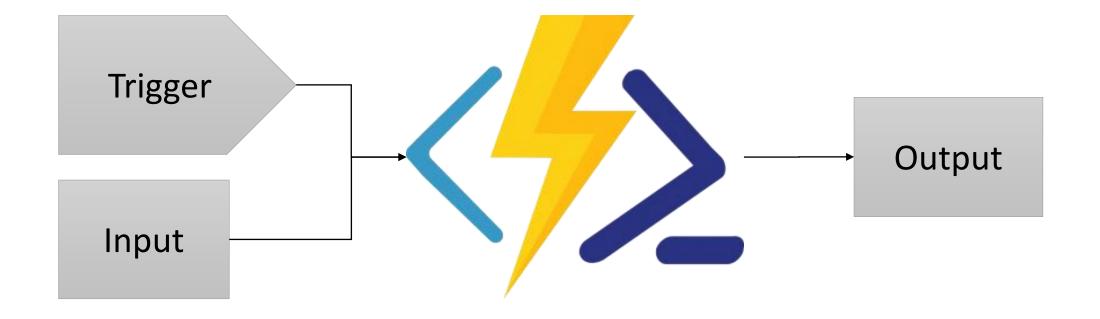


#### How about automation accounts?

Automation account	Function App
AzureRM	Az
PowerShell 5.1	PowerShell 6/7
Long lasting	Event based
Hybrid worker	<b>Hybrid Connection</b>







## Triggers

- HTTP/WebHook
- Timer
- Events
- Storage
- Cosmosdb
- lot Hub
- Service bus



## Bindings

Type 1.x 2.x and higher1 Trigger Input Output ✓ ~ ~ ✓ Blob storage ~ ~ ~ Cosmos DB ✓ ~ ~ **~** Event Grid **~** ~ **~** Event Hubs ~ ~ HTTP & webhooks **~** ~ IoT Hub ✓ Microsoft Graph Excel tables ~ ✓ Microsoft Graph OneDrive files Microsoft Graph ~ Outlook email ~ ~ ~ ✓ Microsoft Graph events ~ ~ Microsoft Graph Auth tokens ✓ ~ ✓ Mobile Apps Notification Hubs ~ ~ Queue storage ~ SendGrid ~ ~ Service Bus ~ SignalR Table storage Timer ~ ~ Twilio ~ ✓

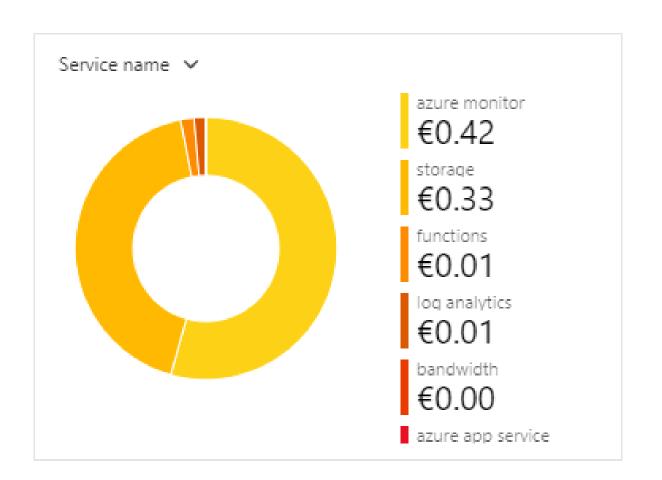
https://docs.microsoft.com/en-us/azure/azure-functions/functions-triggers-bindings

## HTTP Trigger



#### Costs

- Consumption plan
- Premium plan
- App service plan



## Deployment



### Deploy through the portal

- Get a good understanding of what's going on
- For quick and dirty deployments
- Use as a code generator



## Deploy through Visual Studio Code

- No Azure subscription needed
- Quick debugging
- Direct connection



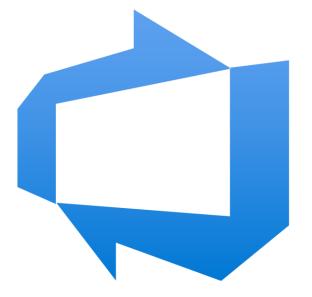
#### Prerequisites

- Install <u>PowerShell Core</u>
- Install <u>Visual Studio Code</u> on one of the <u>supported platforms</u>.
- Install <u>PowerShell extension for Visual Studio Code</u>.
- Install <u>.NET Core SDK 2.2+</u> (required by Azure Functions Core Tools and available on all supported platforms).
- Install version 2.x of the <u>Azure Functions Core Tools</u>.
- You also need an active Azure subscription.

If you don't have an Azure subscription, create a free account before you begin.

### Deploy through Azure DevOps

- Professional deployment process
- Full Deployment pipeline
- Default tasks



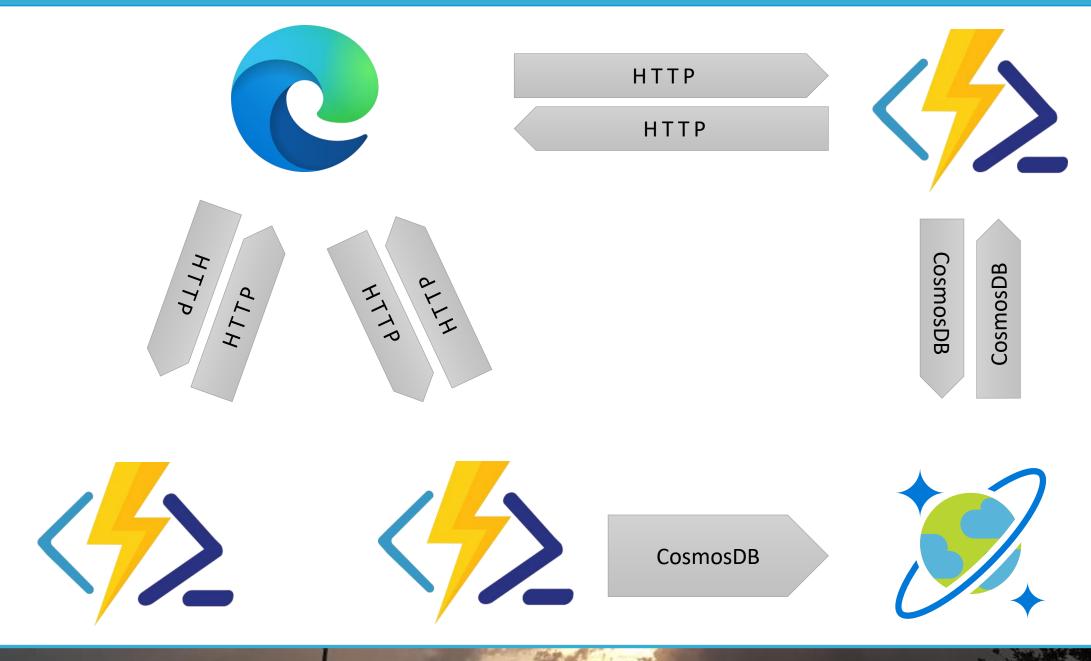
### Show case: A raffle



#### A raffle

- Create a frontend where people can enter their name
- Create a function to get a random winner

... Challenge accepted!



#### What does that look like?



## Sources

https://4bes.nl/category/serverless/	Deploy through the portal Prepare for VSCode Deploy through Azure DevOps
https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-first-function-powershell	Deploy through VSCode
https://ServerlessLibrary.net	Examples
https://github.com/Ba4bes/ 25daysofserverless	(bad) Examples

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