

TOPIC

World of Serverless with Azure Functions

SPEAKER

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6pm



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Jaap Brasser

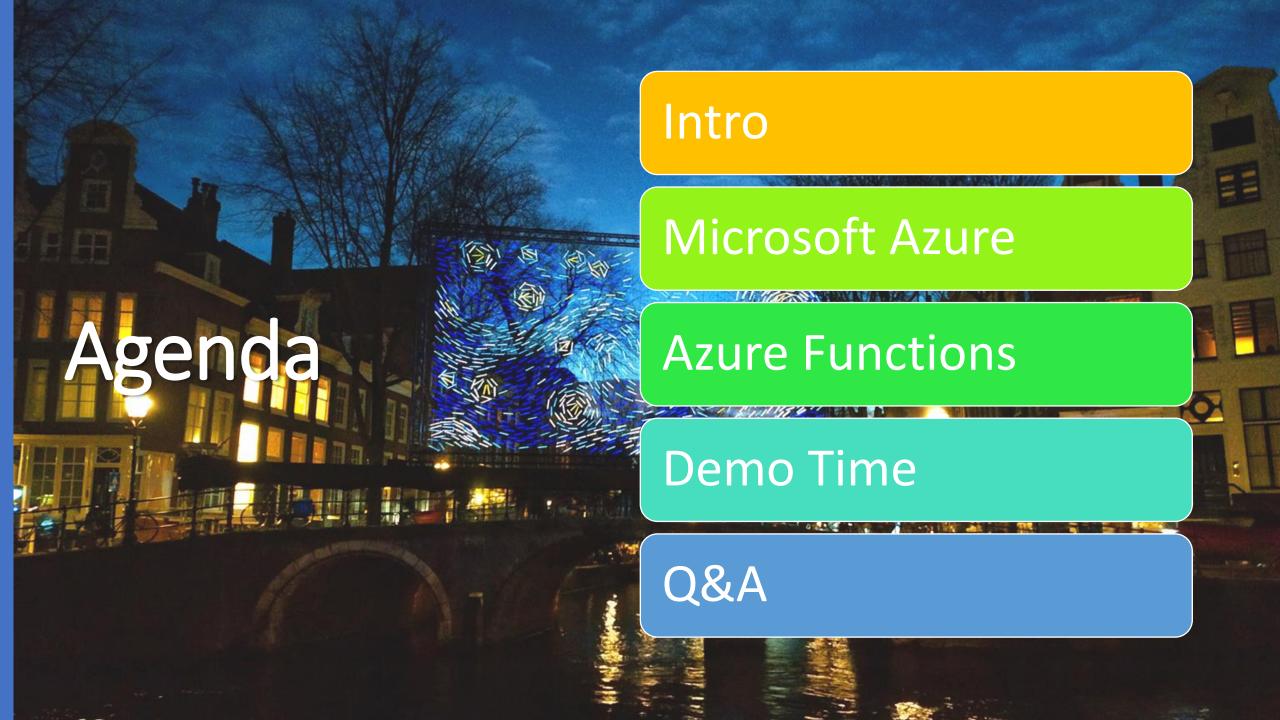
Tweets y jaap_brasser

Works Sr. Developer Advocate

Does Blogger, Speaker, Coder

Likes Cloud Automation & Security







What is Azure?

The Azure cloud platform is more than 200 products and cloud services designed to help you bring new solutions to life—to solve today's challenges and create the future. Build, run, and manage applications across multiple clouds, on-premises, and at the edge, with the tools and frameworks of your choice.

Start free

↓ Your most popular questions answered



Trust your cloud

Get security from the ground up, backed by a team of experts, and proactive compliance trusted by enterprises, governments, and startups.



Operate hybrid seamlessly

On-premises, across multiple clouds, and at the edge—we'll meet you where you are. Integrate and manage your environments with services designed for hybrid cloud.



Build on your t

With a commitment to op support for all languages a build how you want, and you want to

What is Azure



App Service

Quickly create powerful cloud apps for web and mobile



Azure Cognitive Services

Add smart API capabilities to enable contextual interactions



Azure Cosmos DB

Fast NoSQL database with open APIs for any scale





Azure Functions

Process events with serverless code



Azure Kubernetes Service (AKS)

Simplify the deployment, management, and operations of Kubernetes



Azure Quantum (Preview)

Experience quantum impact today on Azure



Azure SQL

Modern SQL family for migration and app modernization



Linux Virtual Machines

Provision virtual machines for Ubuntu, Red Hat, and more



Windows Virtual Desktop

The best virtual desktop experience, delivered on Azure



Why Azure Functions?

- Multiple triggers
- Many supported language
- Different Deployments

Advantages of Azure Functions



Pay for what you use



No Infrastructure to manage



No maintenance of servers



Can be placed in existing Web App subscriptions



Simplify code writing

Deployment models

mirror_mod.mirror_object

peration == "MIRROR_X":
irror_mod.use_x = True
irror_mod.use_y = False
irror_mod.use_z = False
operation == "MIRROR_Y"
irror_mod.use_x = False
irror_mod.use_y = True
irror_mod.use_z = False
irror_mod.use_z = False

_ob.select= 1 er_ob.select=1

- Through portal (Selected + str(modified by select = 0
- VS Code / others IDEy context selected on the selected of the sel
- Azure Cloud Shell
- GitHub
- Upload as zip

```
types.Operator):
   X mirror to the select
   ject.mirror_mirror_x"
        ror X"
```

OPERATOR CLASSES ----

Error handling

HttpTriggerPowerShell2 (Method: POST, Uri: ...)

Status

Logs V Errors and warnings

Too many logs. Refresh rate: 2 seconds.

2018-04-23T13:31:48.583 [Info] Function started (Id=abbf3cc1-b7c2-4d19-8358-3271ea2f3d12)
2018-04-23T13:31:48.958 [Error] this: The term 'this' is not recognized as the name of a at run.ps1: line 1
+ this
+ CategoryInfo : ObjectNotFound: (this:String) [], CommandNotFoundException
+ FullyQualifiedErrorId: CommandNotFoundException

2018-04-23T13:31:48.973 [Error] Exception while executing function: Functions.HttpTriggerP 2018-04-23T13:31:49.005 [Error] Function completed (Failure, Id=abbf3cc1-b7c2-4d19-8358-32

How does that scale?



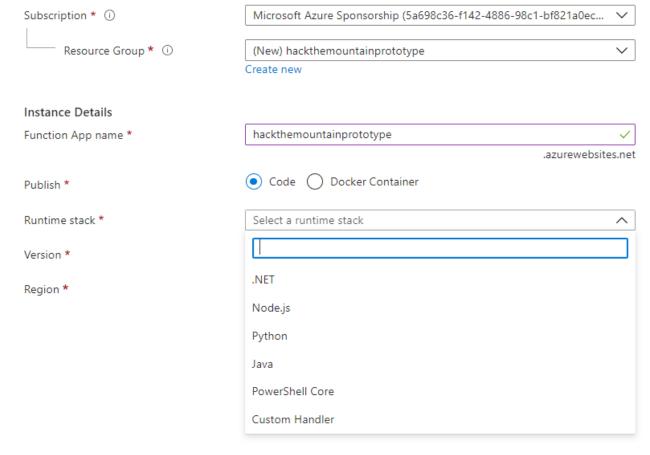
Create Function App

Basics Hosting Monitoring Tags Review + create

Create a function app, which lets you group functions as a logical unit for easier management, deployment and sharing of resources. Functions lets you execute your code in a serverless environment without having to first create a VM or publish a web application.

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.



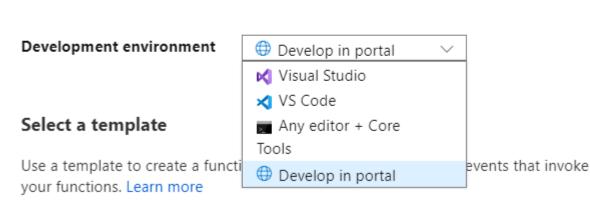
Create Prototype

Add function

Y Filter

Select development environment

Instructions will vary based on your development environment. Learn more





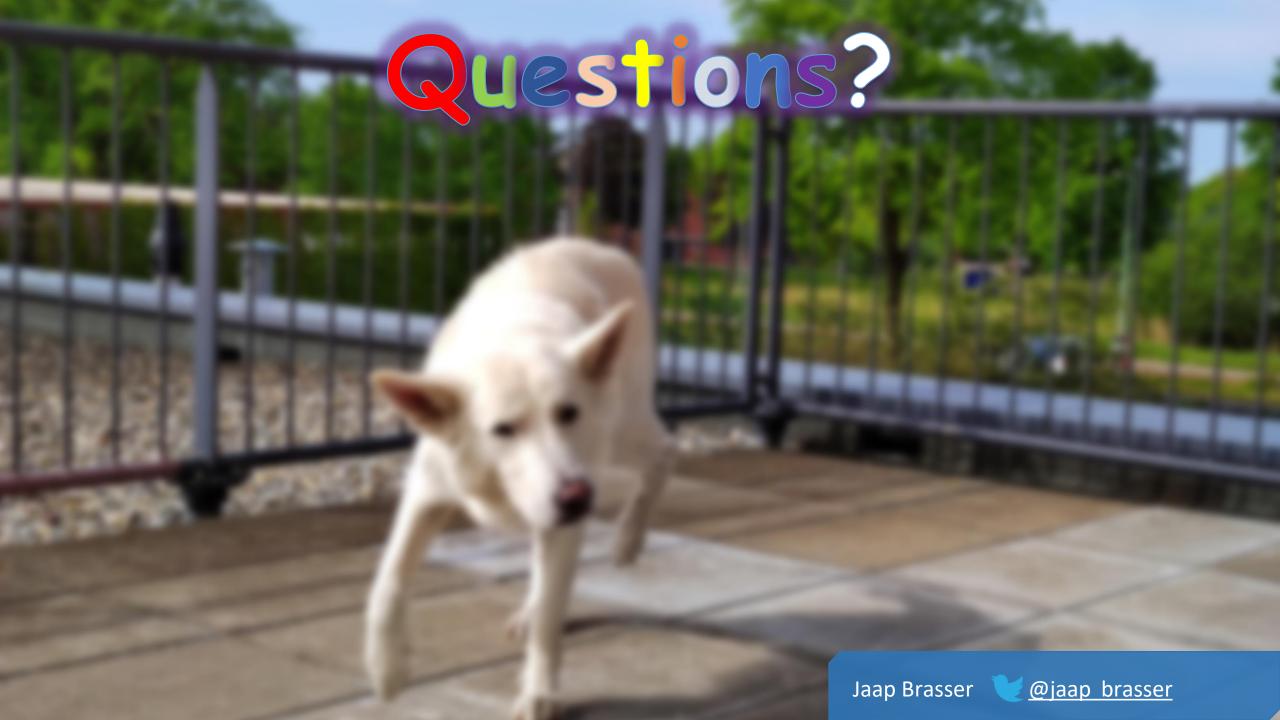
Common PowerShell Scripts

- Interactive scripting language
- Included with Windows
- Open Source

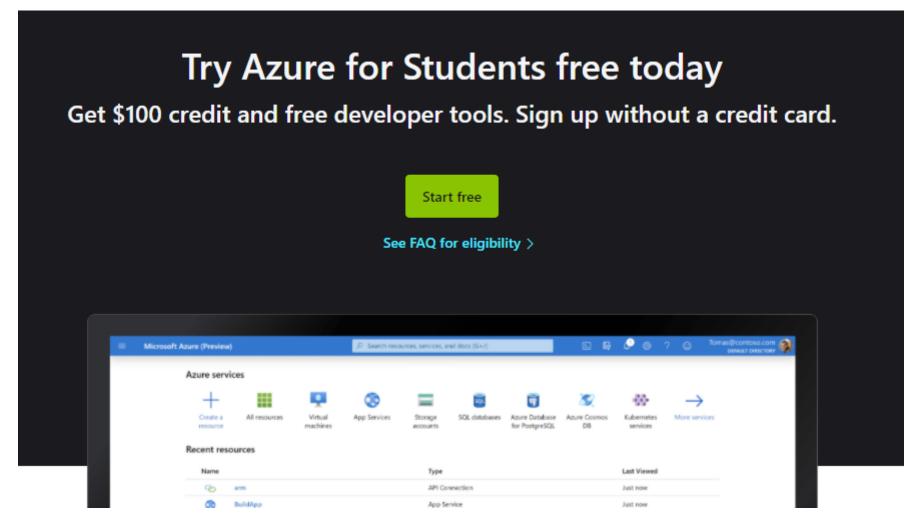
Methods of integrating PowerShell

Run PowerShell locally Windows PowerShell PowerShell **Azure Automation** Windows PowerShell **Azure Functions** PowerShell





Microsoft Azure for Students



https://azure.microsoft.com/en-us/free/students/

References

- https://docs.microsoft.com/en-us/azure/azurefunctions/durable/durable-functions-overview?tabs=csharp
- https://docs.microsoft.com/en-us/azure/azure-functions/functions-get-started?pivots=programming-language-csharp
- https://azure.microsoft.com/en-us/free/students/