Getting started

Azure Functions mit PowerShell

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Function App - Microsoft Azure

https://portal.azure.com/#blade/Microsoft_Azure_Marketplace/GalleryItemDetailsBladeNopdl/product/%7B"displayName"%3A"Function%20App"%2C"itemDisplayName"%3A"Function%20App"%2C"id"%3A"Microsoft.FunctionApp"%2...

Microsoft Azure

Search resources, services, and docs (G+/)

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Home > Resource groups > funcappduivs > Create a resource >

Function App

Microsoft

Function App

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Microsoft

★ 4.0 (1393 Azure ratings)

Create

Overview | Plans | Usage Information + Support | Reviews

Write any function in minutes – whether to run a simple job that cleans up a database or build a more complex architecture. Creating functions is easier than ever before, whatever your chosen OS, platform, or development method.

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Virtual Machine
Azure Virtual Desktop resource
Create

Microsoft HPC Pack 2012 R2
Microsoft
Virtual Machine
Enterprise-class HPC solution. Easy to deploy, cost-effective and supports Windows/Linux workloads.
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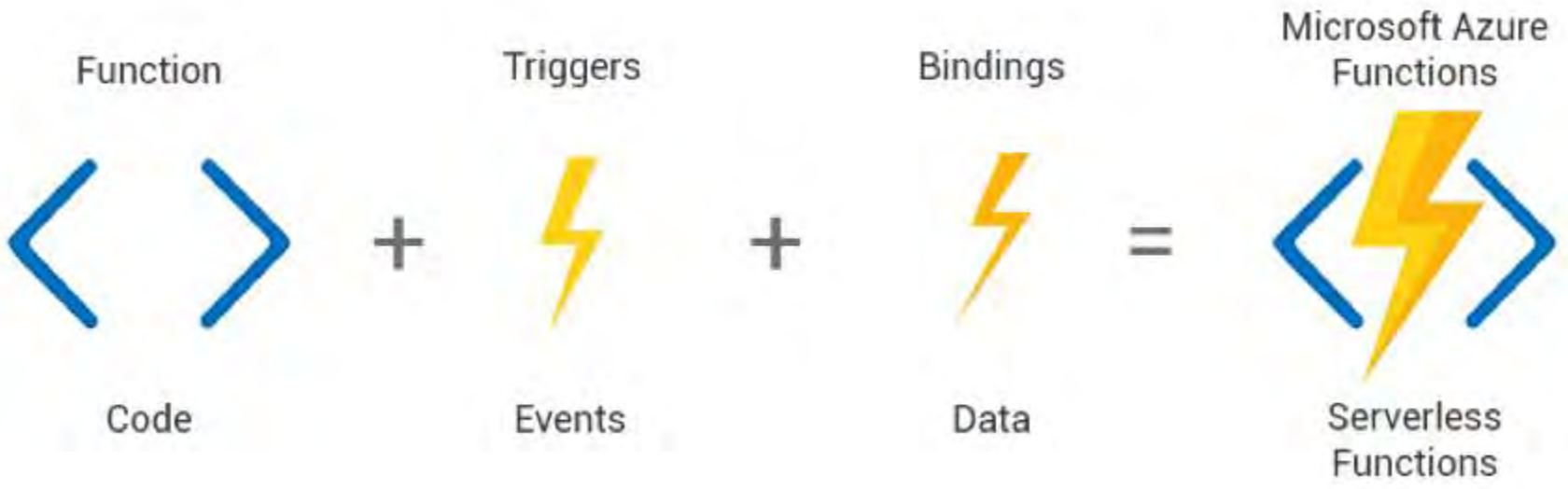
Windows 10 IoT Core Services
Microsoft
Azure Service
Commercialize your project with enterprise-grade security and support
Create

Web App + SQL
Microsoft
Azure Service
Enjoy secure and flexible development, deployment, and scaling options for your web app
Create

20:36
27.09.2021

About Azure Functions

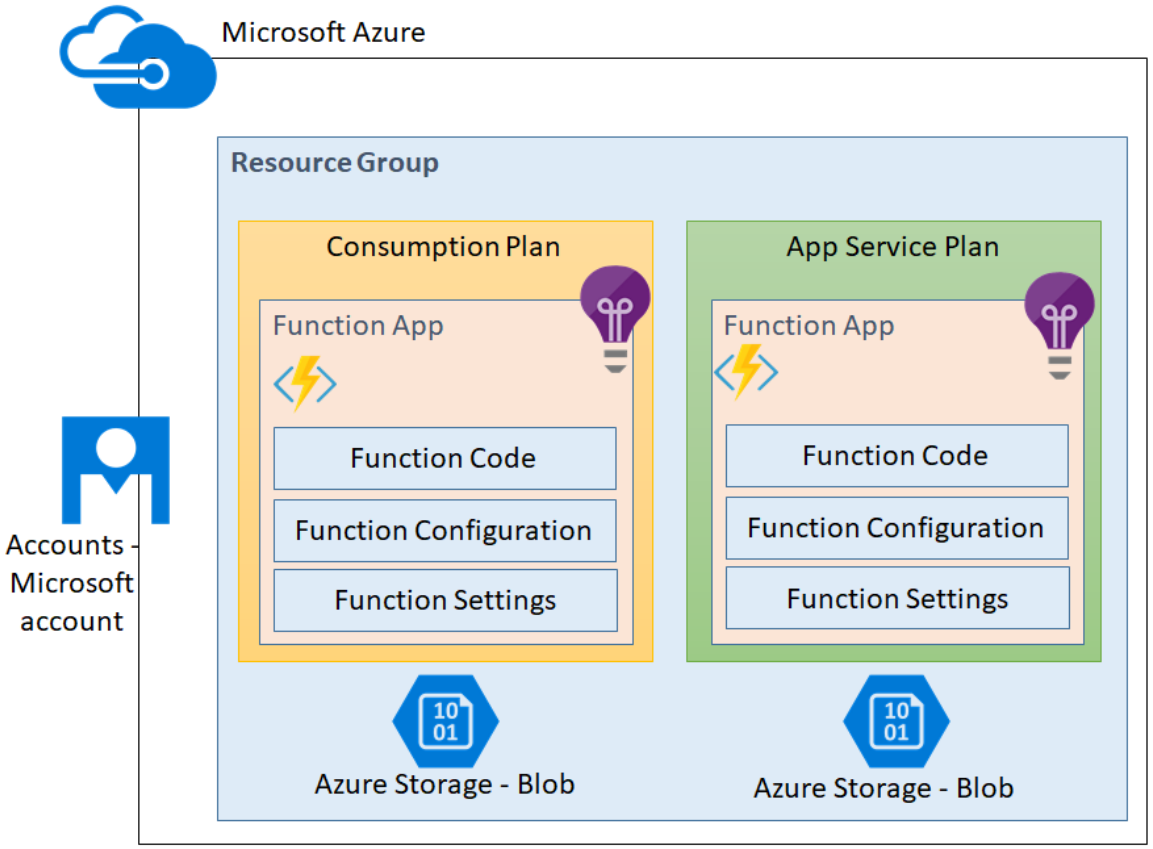


From: https://www.grapecity.com/blogs/an-introduction-to-azure-functions

Environment

- Azure Account
- Azure Functions Core Tools
  - https://docs.microsoft.com/en-us/azure/azure-functions/functions-run-local
- VS Code
  - Azure Functions
  - Azure Account
  - Azure Storage
  - PowerShell
- PowerShell Core

Anatomy of an Azure function App



From: https://hub.packtpub.com/anatomy-of-an-azure-function-app-tutorial/

functionAppAzurePortalDUI1

Function App

Search (Ctrl+/)

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Security
Events (preview)

Functions

Functions
App keys
App files
Proxies

Deployment

Deployment slots
Deployment Center

Settings

Configuration
Authentication
Application Insights
Identity
Backups
Custom domains
TLS/SSL settings
Networking

Browse | Refresh | Stop | Restart | Swap | Get publish profile | Reset publish profile | Download app content | Delete | Send us your feedback

Click here to access Application Insights for monitoring and profiling for your app. →

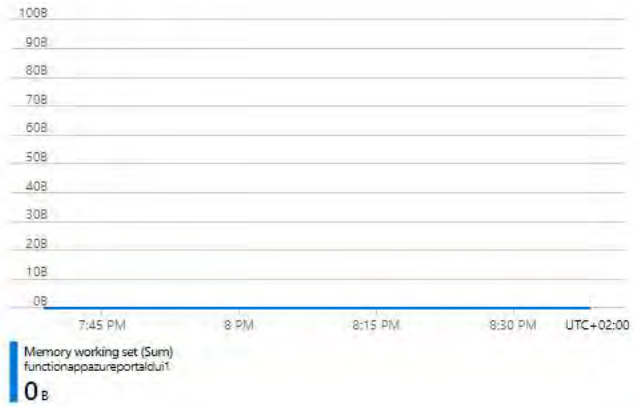
Essentials

JSON View

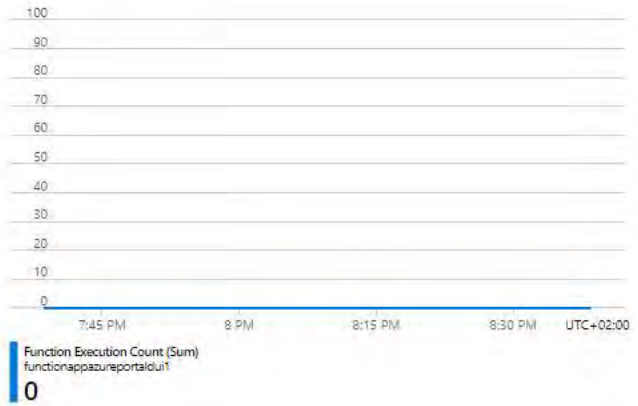
Resource group (change)	: mbuePowerShellPott	URL	: https://functionappazureportaldui1.azurewebsites.net
Status	: Running	Operating System	: Windows
Location	: West Europe	App Service Plan	: ASP-mbuePowerShellPott-8ef9 (Y1: 0)
Subscription (change)	: d.velop AG - dvelopecspanddev.onmicrosoft.com - Microsoft Azure	Properties	: See More
Subscription ID	: 0b6aec78-5902-468e-9bdc-6880973234ec	Runtime version	: 3.2.0.0
Tags (change)	: Click here to add tags		

Metrics | Features (9) | Notifications (1) | Quickstart

Memory working set

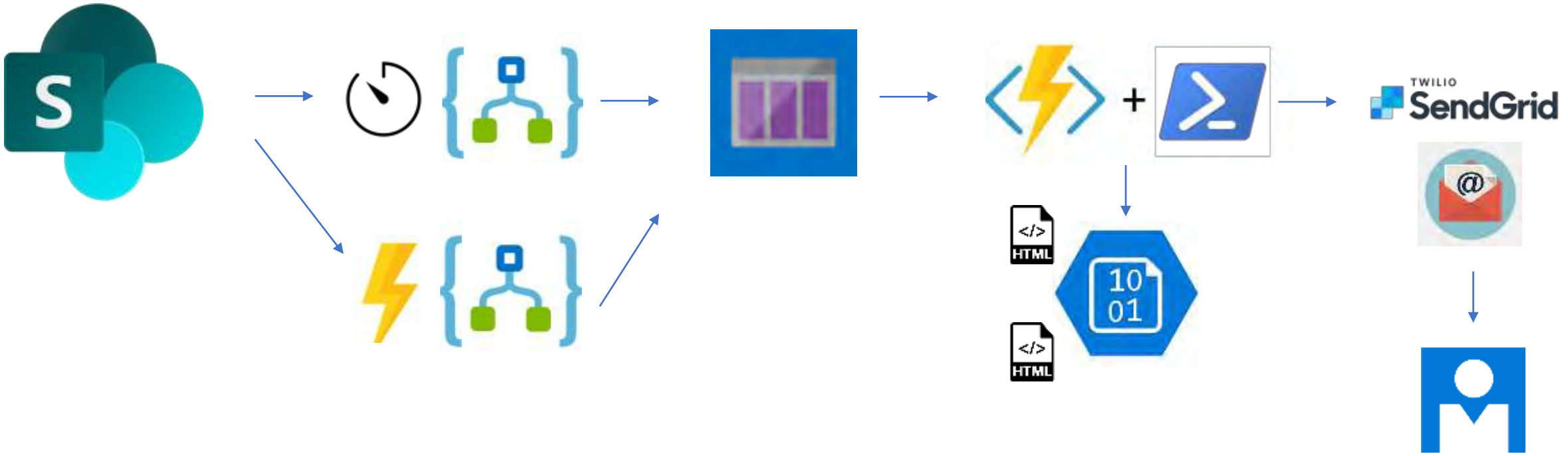


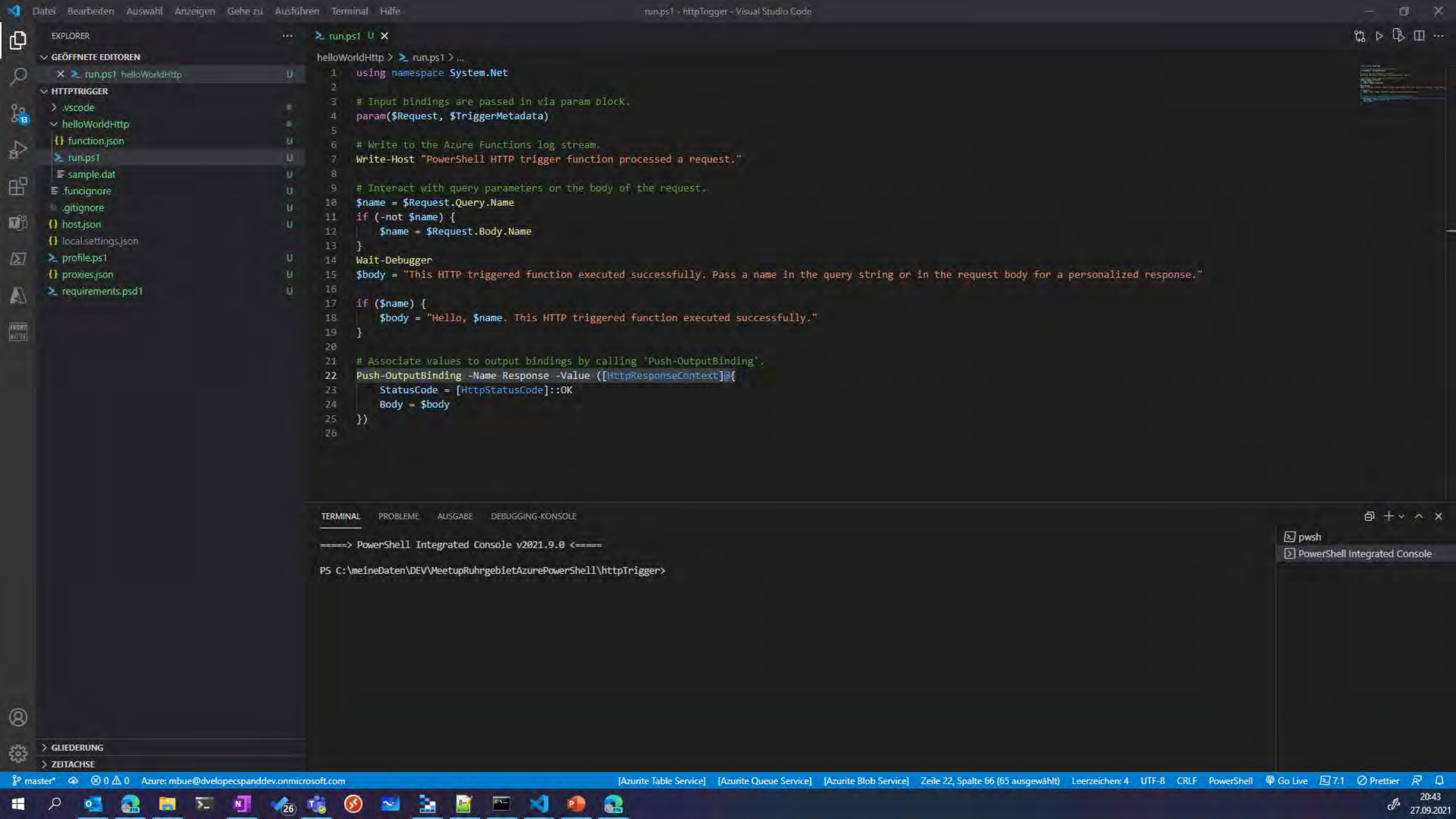
Function Execution Count



MB Milliseconds

Real World Szenario: Task Reminder




Datei Bearbeiten Auswahl Anzeigen Gehe zu Ausführen Terminal Hilfe
run.ps1 - httpTrigger - Visual Studio Code
EXPLORER
GEÖFFNETE EDITOREN
run.ps1 helloWorldHttp U
HTTPTRIGGER
.vscode
helloWorldHttp
function.json U
run.ps1 U
sample.dat U
.funcignore U
.gitignore U
host.json U
local.settings.json
profile.ps1 U
proxies.json U
requirements.psd1 U
GLIEDERUNG
ZEITACHSE
run.ps1 U
helloWorldHttp > run.ps1 > ...
1 using namespace System.Net
2
3 # Input bindings are passed in via param block.
4 param($Request, $TriggerMetadata)
5
6 # Write to the Azure Functions log stream.
7 Write-Host "PowerShell HTTP trigger function processed a request."
8
9 # Interact with query parameters or the body of the request.
10 $name = $Request.Query.Name
11 if (-not $name) {
12 $name = $Request.Body.Name
13 }
14 Wait-Debugger
15 $body = "This HTTP triggered function executed successfully. Pass a name in the query string or in the request body for a personalized response."
16
17 if ($name) {
18 $body = "Hello, $name. This HTTP triggered function executed successfully."
19 }
20
21 # Associate values to output bindings by calling 'Push-OutputBinding'.
22 Push-OutputBinding -Name Response -Value ([HttpResponseContext]@{
23 StatusCode = [HttpStatusCode]::OK
24 Body = $body
25 })
26
TERMINAL PROBLEME AUSGABE DEBUGGING-KONSOLE
=====> PowerShell Integrated Console v2021.9.0 <=====
PS C:\meineDaten\DEV\MeetupRuhrgebietAzurePowerShell\httpTrigger>
pwsh
PowerShell Integrated Console
master* 0 0 Azure: mbue@dvelopecspanddev.onmicrosoft.com [Azurite Table Service] [Azurite Queue Service] [Azurite Blob Service] Zeile 22, Spalte 66 (65 ausgewählt) Leerzeichen: 4 UTF-8 CRLF PowerShell Go Live 7.1 Prettier
20:43
27.09.2021

Ressources

- About Azure Functions
  - https://docs.microsoft.com/en-us/azure/azure-functions/functions-overview
- Functions Reference
  - https://docs.microsoft.com/de-de/azure/azure-functions/functions-reference-powershell?tabs=portal
- Quickstart: Create a PowerShell function in Azure using Visual Studio Code
  - https://docs.microsoft.com/en-us/azure/azure-functions/create-first-function-vs-code-powershell
- Storage Queue and PowerShell
  - Verwenden von Azure Queue Storage mit PowerShell: Azure Storage | Microsoft Docs
- Local Debugging PowerShell
  - Lokales Debuggen von PowerShell Azure Functions | Microsoft Docs

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Danke euch!