Serverless, no more servers no more PowerShell?

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Flow of the session





Jaap Brasser

Tweets @ jaap_brasser

Blogs @ jaapbrasser.com

Works Tech Marketeer @ Rubrik.com

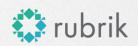
Does Blogger, Speaker, Tech Enthusiast

Likes Cloud Automation, Scripting &

Security









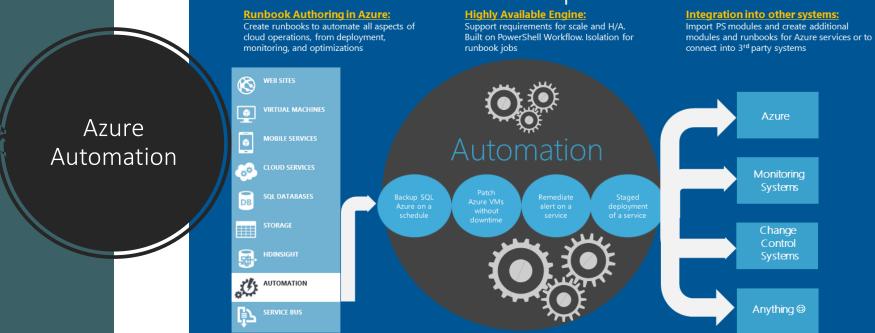






Cloud Automation





Azure Automation Summary

Automate processes

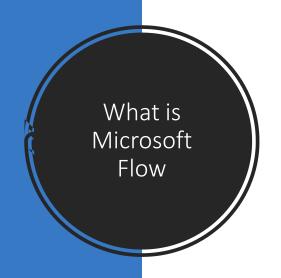
Cross-platform configuration management

Download example runbooks and scripts

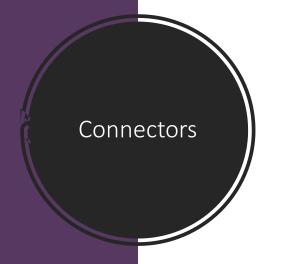
Event grid integration

Hybrid Runbook Worker

500 free minutes









Office 365 Outl...



OneDrive for B...



Office 365 Users



SharePoint



Twitter



Notifications



RSS



Outlook.com

Recently added connectors



AtBot Admin



Marketing Cont...



Pitney Bowes T...



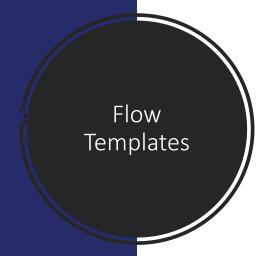
Excel Online (B...

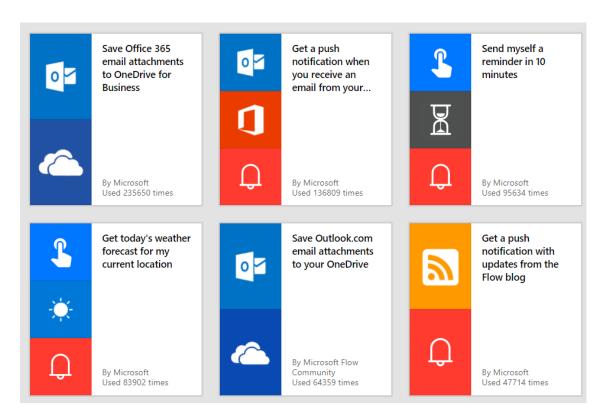


Excel Online (O...



Azure SQL Data...





Work less, do more.

Create automated workflows with Microsoft Flow.

> See how it works

Find a template or connector to start with



Featured template collections









Popular services



SharePoint



Office 365 Outlook



OneDrive

Twitter





Outlook.com





Dynamics 365



Yammer

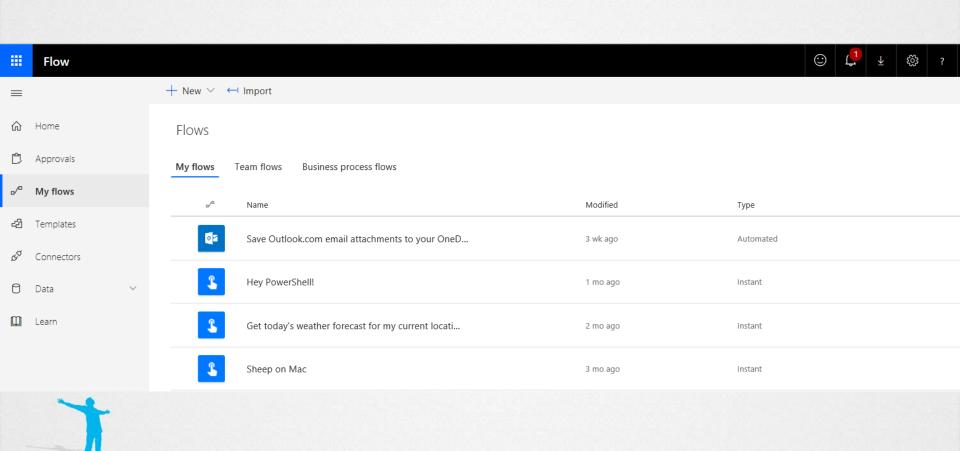


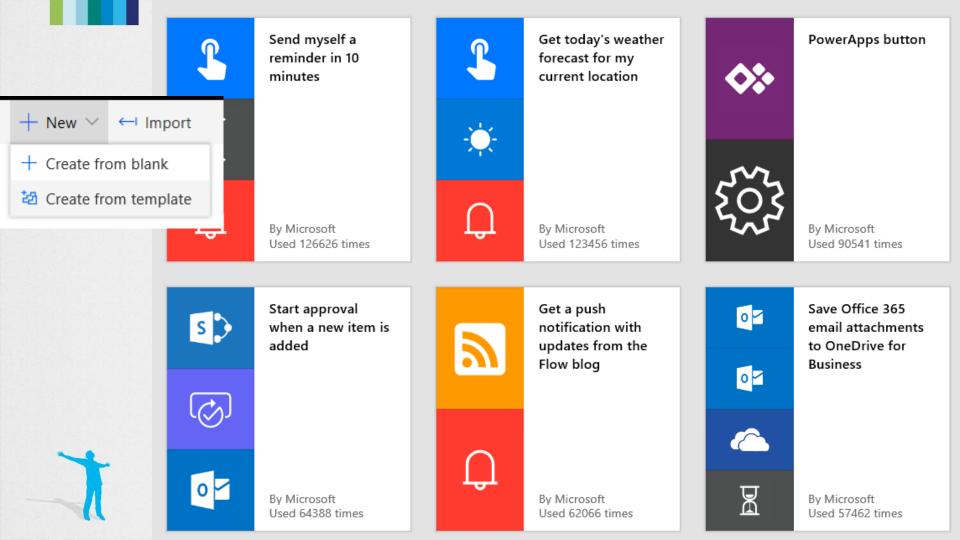


See all 218 >

Excel

Wunderlis





Microsoft Flow Summary

Use Connectors to get data

Create triggers based on this data

Build workflows

Integrate and combine different services

Approval flows

Long runtime of flows

What are Azure Functions



What is serverless?











Advantages of Azure Functions

Pay for what you use

No Infrastructure to manage

No maintenance of servers

Can be placed in existing subscriptions

Simplify code writing

What are we trying to solve?



Re-using existing skills



Re-using existing code / scripts



Faster deployment



Less maintenance

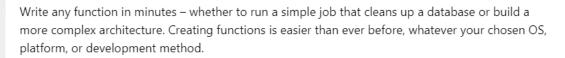


DemoExploring Azure Functions



Function App

Microsoft

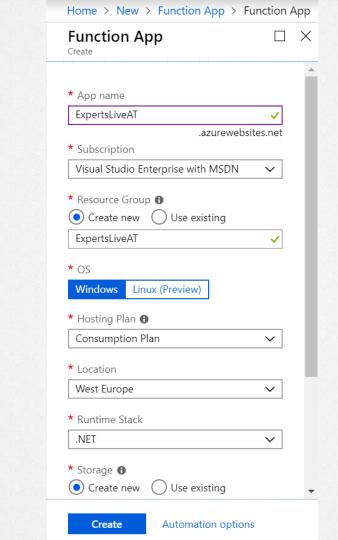


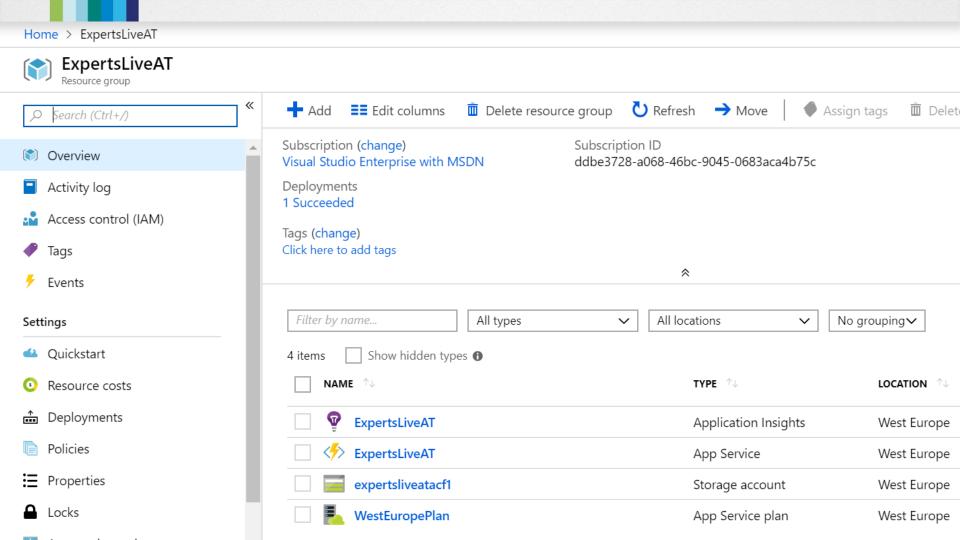


PUBLISHER	Microsoft

USEFUL LINKS Solution Overview Pricing Details







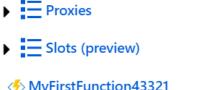
ExpertsLiveAT Function Apps Search All subscriptions

Function Apps















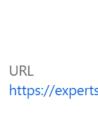
SConfAsia2018

PSConfAsia2018Demo

URL App Service plan / pricing tier WestEuropePlan (Consumption)

Stop

Status



Running

Overview

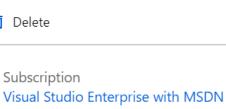
Swap

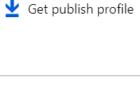


Configured features



Restart





Platform features









Reset publish profile











ExpertsLiveAT

Location

- ddbe3728-a068-46bc-9045-0683aca4b75c West Europe

- m Delete

CREATE A FUNCTION



Visual Studio

Use Visual Studio to author, build, and run .NET functions



VS Code

Use Visual Studio Code to author your functions



Any editor + Core Tools

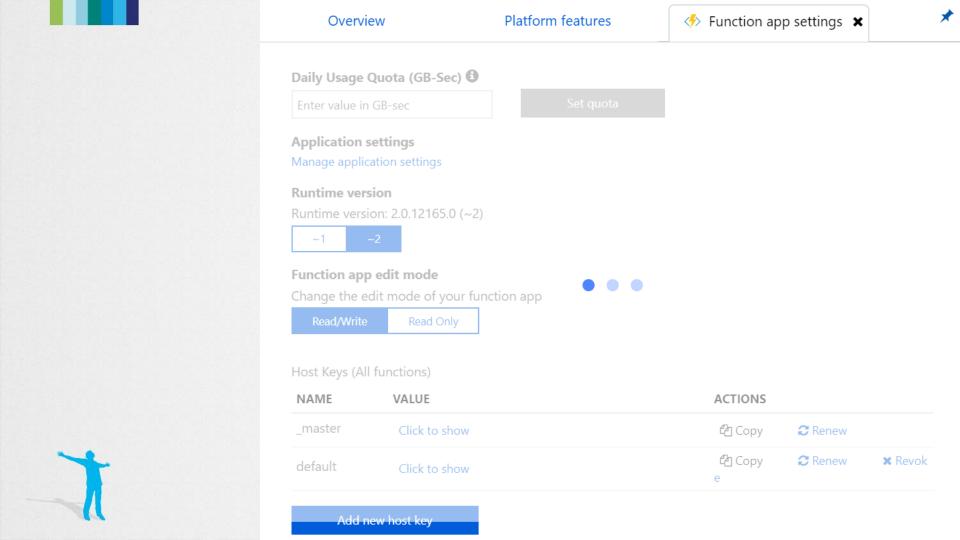
Write functions using your favorite editor and the Azure Functions Core Tools



In-portal

Author functions quickly in the portal

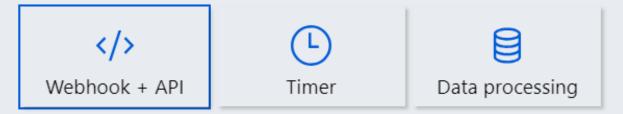






Get started quickly with a premade function

1. Choose a scenario

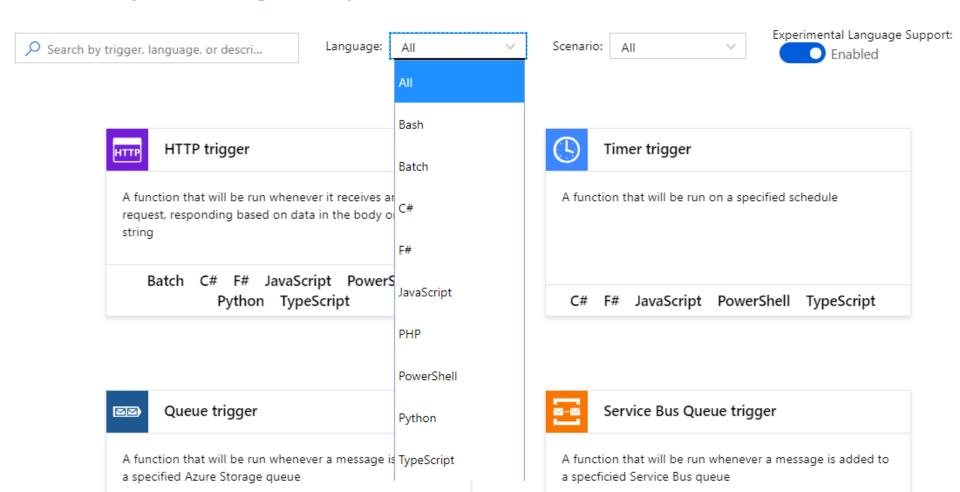


For PowerShell, Python, and Batch, create your own custom function.



Create this function

Choose a template below or go to the quickstart



Choose a template below or go to the quickstart



Language: Pov

PowerShell

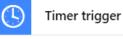
Scenario: All

Experimental Language Su Enabled



A function that will be run whenever it receives an HTTP request, responding based on data in the body or query string

Batch C# F# JavaScript PowerShell
Python TypeScript



A function that will be run on a specified schedule

C# F# JavaScript PowerShell TypeScript



A function that will be run whenever a message is added to a specified Azure Storage queue

Bash Batch C# F# JavaScript PHP PowerShell Python TypeScript



Serverless Community Library (Preview)

Not finding what you're looking for? Check out the Azure Serverless Community Library!



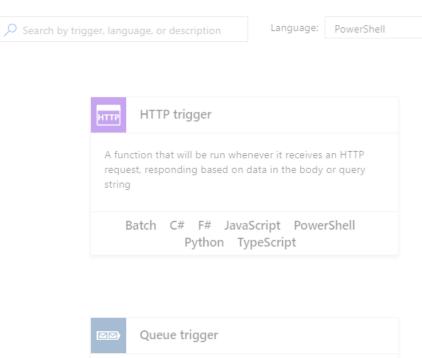


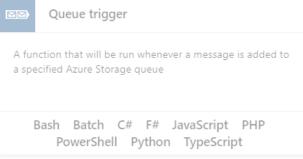


```
function.json
                        Save
                                           ► Run
                                                       </> Get function URL
       "bindings": [
           "name": "req",
           "type": "httpTrigger",
           "direction": "in",
  6
           "authLevel": "function"
  8
   9
           "name": "res",
  10
           "type": "http",
  11
           "direction": "out"
  12
 13
  14
       "disabled": false
 15
 16 }
```



Choose a template below or go to the quickstart







Scenario: All

Timer

A function that

C# F# Ja

Server

Not finding wh

Serverless Com

Timer trigger

New Function

Language:

PowerShell

Name:

TimerTriggerPowerShell1

Timer trigger

Schedule 6

Enter a cron expression of the format '{second} {minute} {hour} {day} {month} {day of week}' to specify the schedule.

0 */5 * * * *

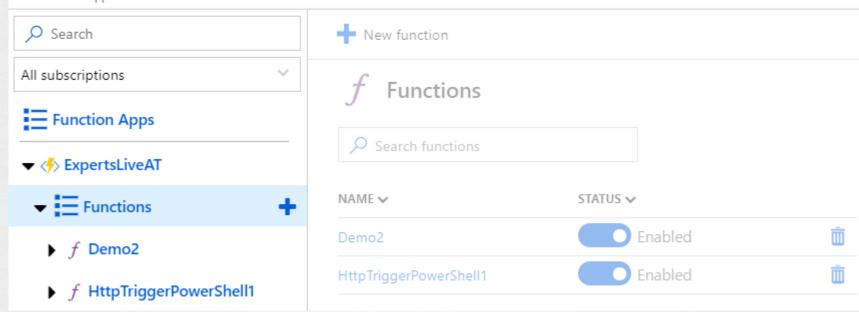
This language is experimental and does not yet have full support. If you run into issues, please file a bug on our GitHub repository.

Create

Cancel



Function Apps











PowerShell language support is still experimental



DemoRun function









Visual Studio

Use Visual Studio to author, build, and run .NET functions



VS Code

Use Visual Studio Code to author your functions



Any editor + Core Tools

Write functions using your favorite editor and the Azure Functions Core Tools



In-portal

Author functions quickly in the portal



DemoDeploy from VSCode







Alternative Deployment methods







GITHUB CD



FTP UPLOAD



POWERSHELL / CLI



VISUAL STUDIO



Summary

Use existing PowerShell skills

Develop serverless code

Interact with other services

Free tier

functions.azure.com

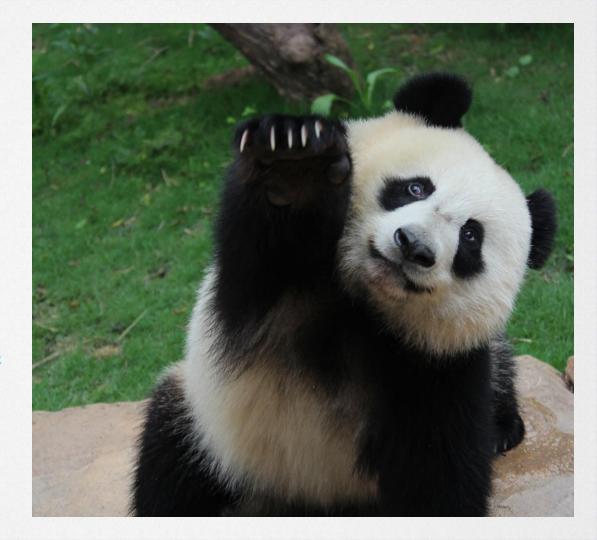
Questions

Twitter:

- · @jaap_brasser
- #ExpertsLive #Azure

GitHub

github.com/jaapbrasser/events





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