French PowerShell Saturday **Write Serverless Applications** with PowerShell and Azure Functions Jaap Brasser @jaap_brasser 15 Septembre 2018 - #FrPwshSat2018

French PowerShell Saturday



Merci à nos sponsors!!





smartview conseil et formation



Jaap Brasser

Tweets @ jaap_brasser

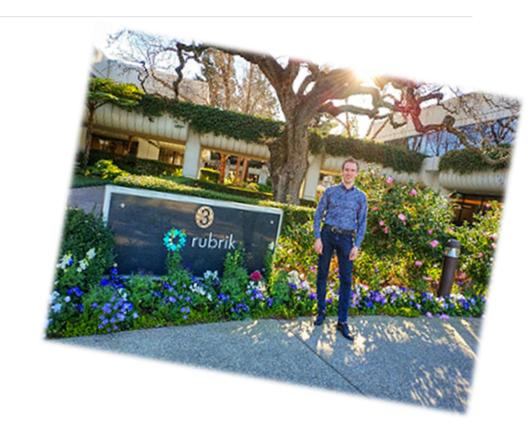
Blogs @ jaapbrasser.com

Works Tech Marketeer @ Rubrik.com

Does Blogger, Speaker, Tech Enthusiast

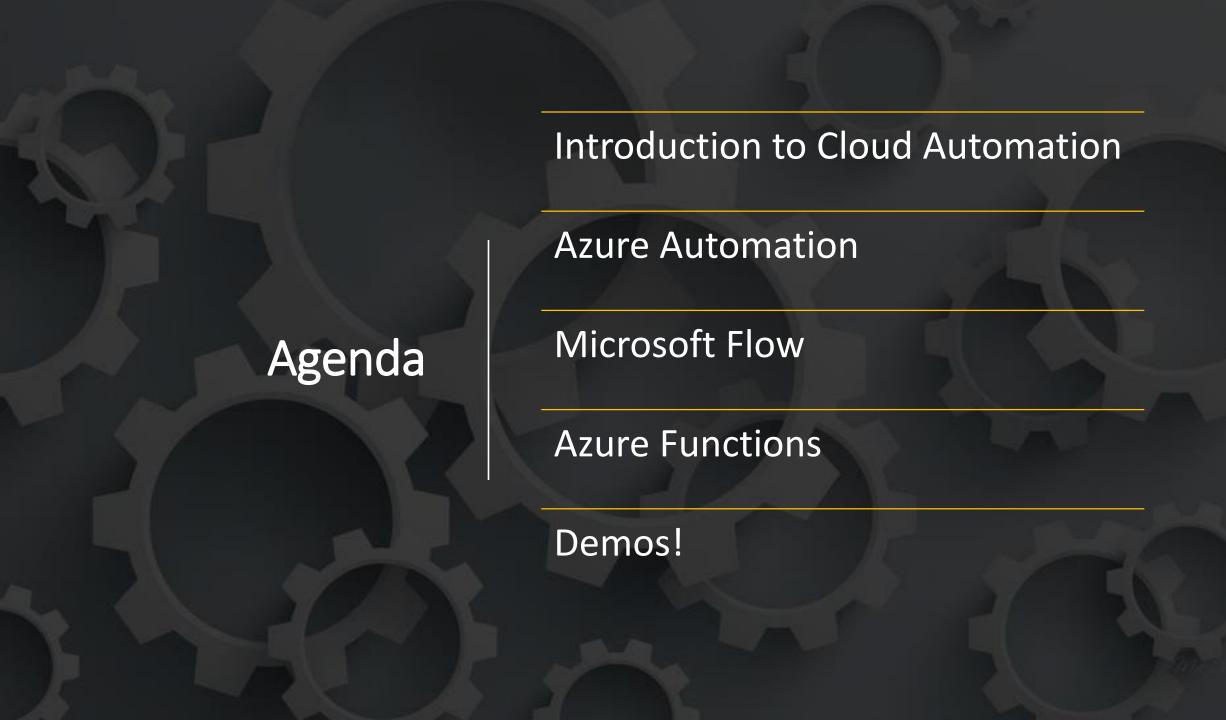
Likes Cloud Automation, Scripting &

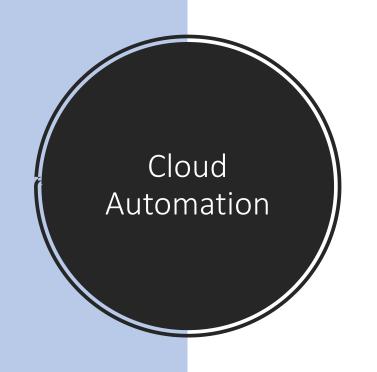
Security







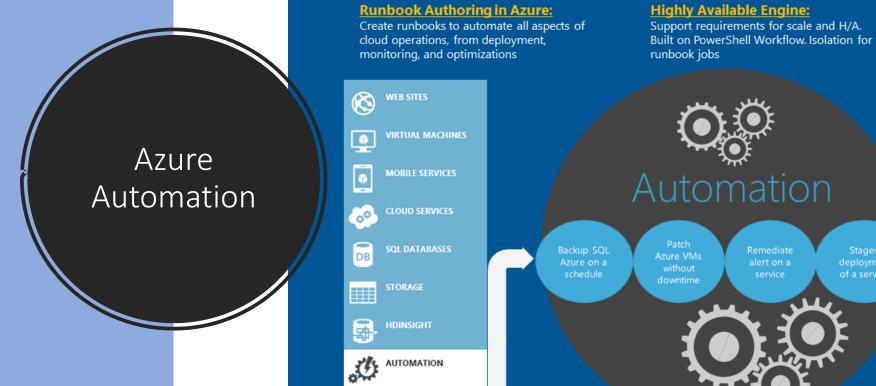








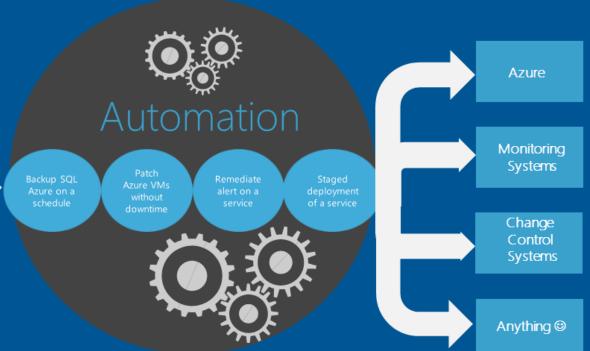
Azure Automation Capabilities



SERVICE BUS

Integration into other systems:

Import PS modules and create additional modules and runbooks for Azure services or to connect into 3rd party systems



Azure Automation Summary

Automate processes

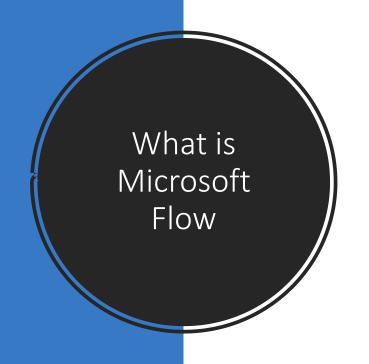
Cross-platform configuration management

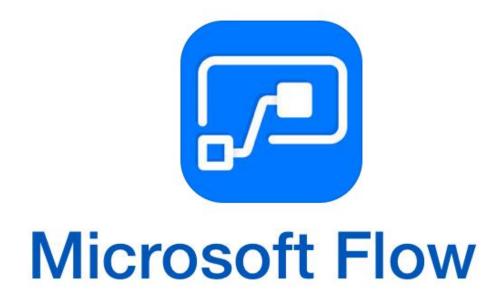
Download example runbooks and scripts

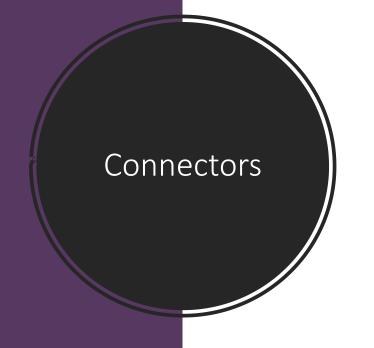
Event grid integration

Hybrid Runbook Worker

500 free minutes



















Office 365 Outl...

OneDrive for B...

Office 365 Users

SharePoint

Twitter

Notifications



RSS



Outlook.com

Recently added connectors







Marketing Cont...



Pitney Bowes T...



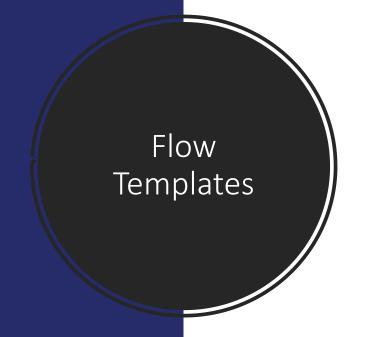
Excel Online (B...

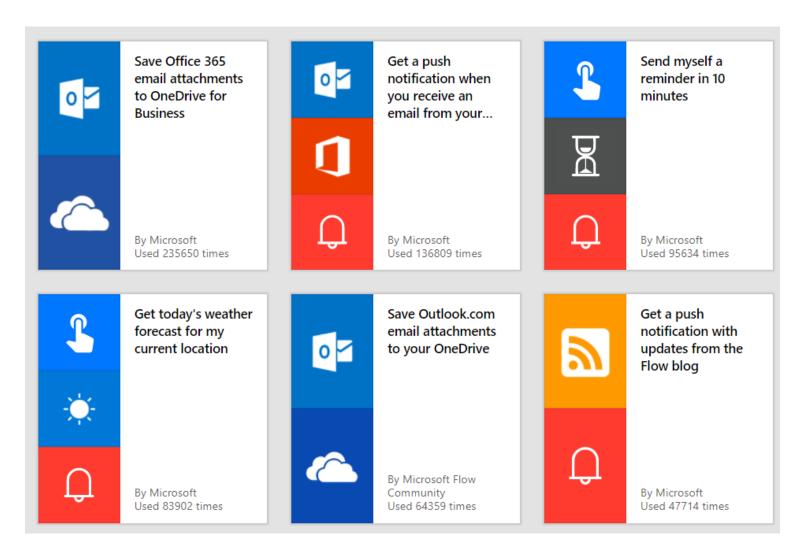


Excel Online (O...



Azure SQL Data...





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?

Azure Web Apps



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

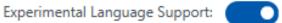
Faster deployment

Less maintenance

Exploring Azure Functions









PowerShell language support is still experimental

Create timed function



Azure PowerShell Function



+ FullyQualifiedErrorId : CommandNotFoundException

Error handling

```
Invocation log Refresh
```

Function

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

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

Status 484265-3137-4bd3-a077-f548272d3704", fd": "7b3168a5-7494-4825-9ef6-73764f3f4ab7", Code": 500,

Status: 500 Internal Ser

Code": 0.

sage": "An error has occurred. For more information, pl

/18-04-23T13:31:48.973 [Error] Exception while executing function: Functions.HttpTriggerP 2018-04-23T13:31:49.005 [Error] Function completed (Failure, Id=abbf3cc1-b7c2-4d19-8358-32

the logs for error ID 2fd84265-3137-4bd3-a077-f548272d3

Azure Function Errors



Demo 5 Create function from code



Upload existing modules



Demo 7 Run from package



Run PowerShell 6 in Azure Functions



Multithreaded data analysis / Flow integrtion



Use existing PowerShell skills

Develop serverless code

Interact with other services

Free tier

functions.azure.com

Summary



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