Using Microsoft Flow for IT Professionals



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- Technical Marketing Engineer at Rubrik
- PowerShell Conference EU/Asia
- Dutch PowerShell User Group
- Speaker / Blogger / Tech Enthusiast
- PowerShell Gallery
- TechNet / MSTechCommunity





Agenda

Why PowerShell?

What is Microsoft Flow

PowerShell & Flow

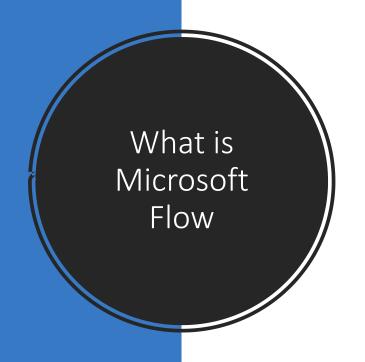
Demos

Questions

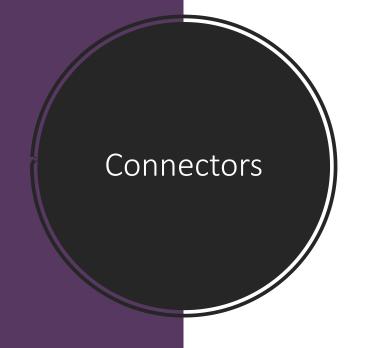
Why PowerShell???

POWERSHELL





















Office 365 Outl...

OneDrive for B...

Office 365 Users

SharePoint

Twitter

Notifications



RSS



Outlook.com

Recently added connectors







Marketing Cont...



Pitney Bowes T...



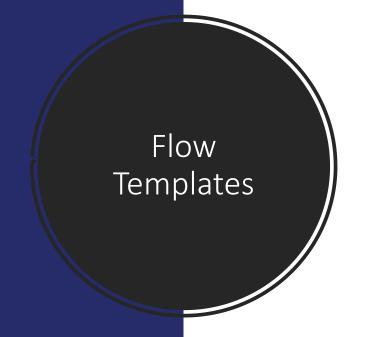
Excel Online (B...

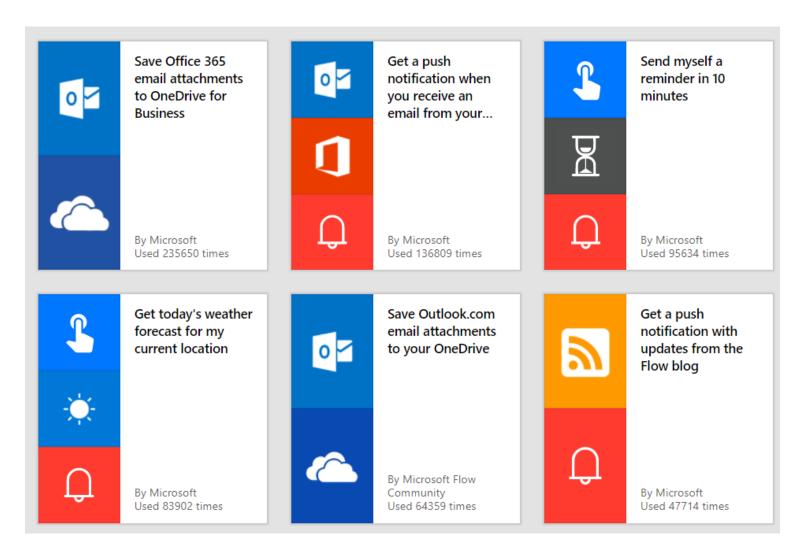


Excel Online (O...



Azure SQL Data...





Why Microsoft Flow?

Use connectors to get data

Create triggers based on this data

Build workflows

Integrate and combine different services

Demo Create your first Flow



Import and Export Flows

Demo



Flow packages

Packaged as zip

Manifest files

APIS

Connections

Definition

What are webhooks

A webhook transfers data over HTTP

Create triggers based on this data

Build workflows

Integrate and combine different services

Methods: Get & Post

Webhooks and Flow

Demo





Follow

Base64 is not encryption. Base64 is not encryption.

11:10 PM - 23 Apr 2018

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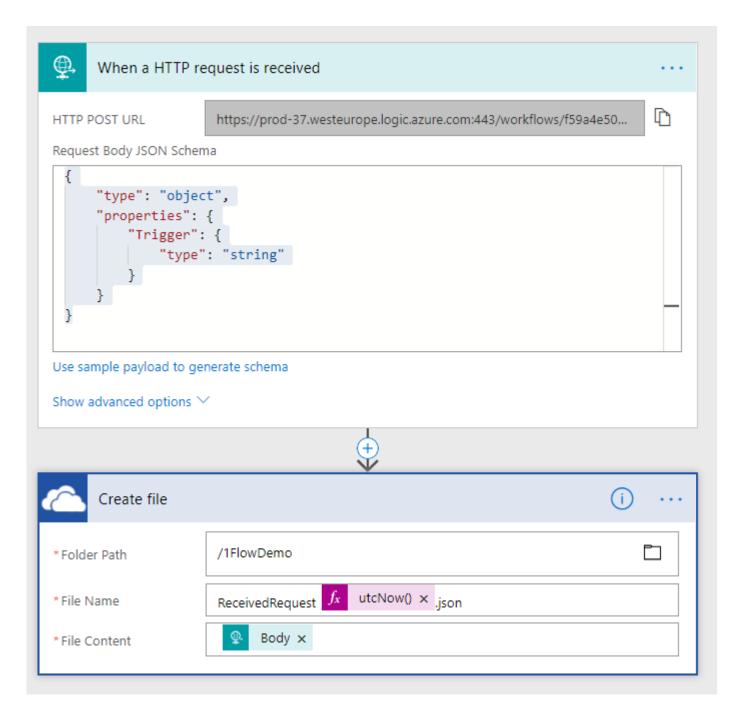












Request limits

These are limits for a single outgoing request.

Timeout

Name	Limit
Request Timeout	120 Seconds

Message size

Name	Li	imit	Notes
Message s	size 1	00 MB	Not all APIs support the full 100MB.
Expression evaluation		31,072 haracters	<pre>@concat() , @base64() , string can't exceed this limit.</pre>



Runtime Limits

Run duration and retention

These are the limits for a single flow run.

Name	Limit	Notes
Run duration	30 days	Includes workflows with pending steps like approvals. After 30 days, any pending steps time-out. Timed-out approvals are removed from the approvals center. If someone attemps to approve a timed-out request, they'll receive an error message.
Storage retention	30 days	This is from the run start time.
Min recurrence interval	1 minute	
Max recurrence interval	500 days	

Demo

Microsoft Flow & Forms





Use the equals function to compare two values.

"status" is the name of the column in the spreadsheet. This is the 1st value used by the equals function. The equals function determines if the value of the status column is set to "unnecessary".



Condition

@or(equals(item()?['status'], 'unnecessary'), equals(item()?['status'], 'completed'))

Edit in Nasic mode

Collapse condition

The "or" function name.

"unnecessary" is the 2nd value used by the equals function.

Demo

Run PowerShell with Flow



Data Gateway sources

SQL Server

SharePoint

Oracle

Informix

Filesystem

DB2

Configure ports

The gateway creates an outbound connection to Azure Service Bus. It communic 5672, 9350 thru 9354. The gateway doesn't require inbound ports.

Learn more about hybrid solutions.

Domain names	Outbound ports	Description
*.analysis.windows.net	443	HTTPS
*.login.windows.net	443	HTTPS
*.servicebus.windows.net	5671-5672	Advanced Message Queuing Protocol (AMQP)
*.servicebus.windows.net	443, 9350-9354	Listeners on Service Bus Relay over TCP (requires 443 for Access Co
*.frontend.clouddatahub.net	443	HTTPS

Gateway

Port

Configuration

Summary

Use cases of Microsoft Flow

Microsoft Flow templates

Took a look at connectors

Created workflows

Ran PowerShell triggered by Flow



References

- https://docs.microsoft.com/en-us/flow/gateway-reference
- https://docs.microsoft.com/en-us/flow/guided-learning/
- https://docs.microsoft.com/en-us/flow/use-expressions-in-conditions
- https://github.com/jaapbrasser/events
- https://www.jaapbrasser.com