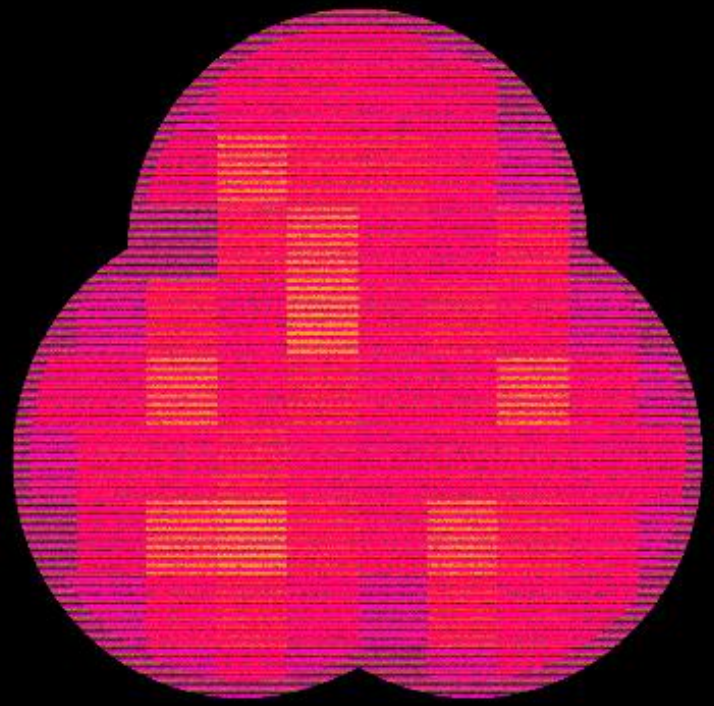

KulenDayz

IT Innovation Conference

31.08 – 01.09.2018.

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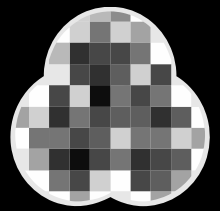

KulenDayz
IT Innovation Conference

Discover Microsoft's Cloud Automation Suite

Jaap Brasser
@jaap_brasser

Microsoft Community
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jaapbrasser.com/about

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

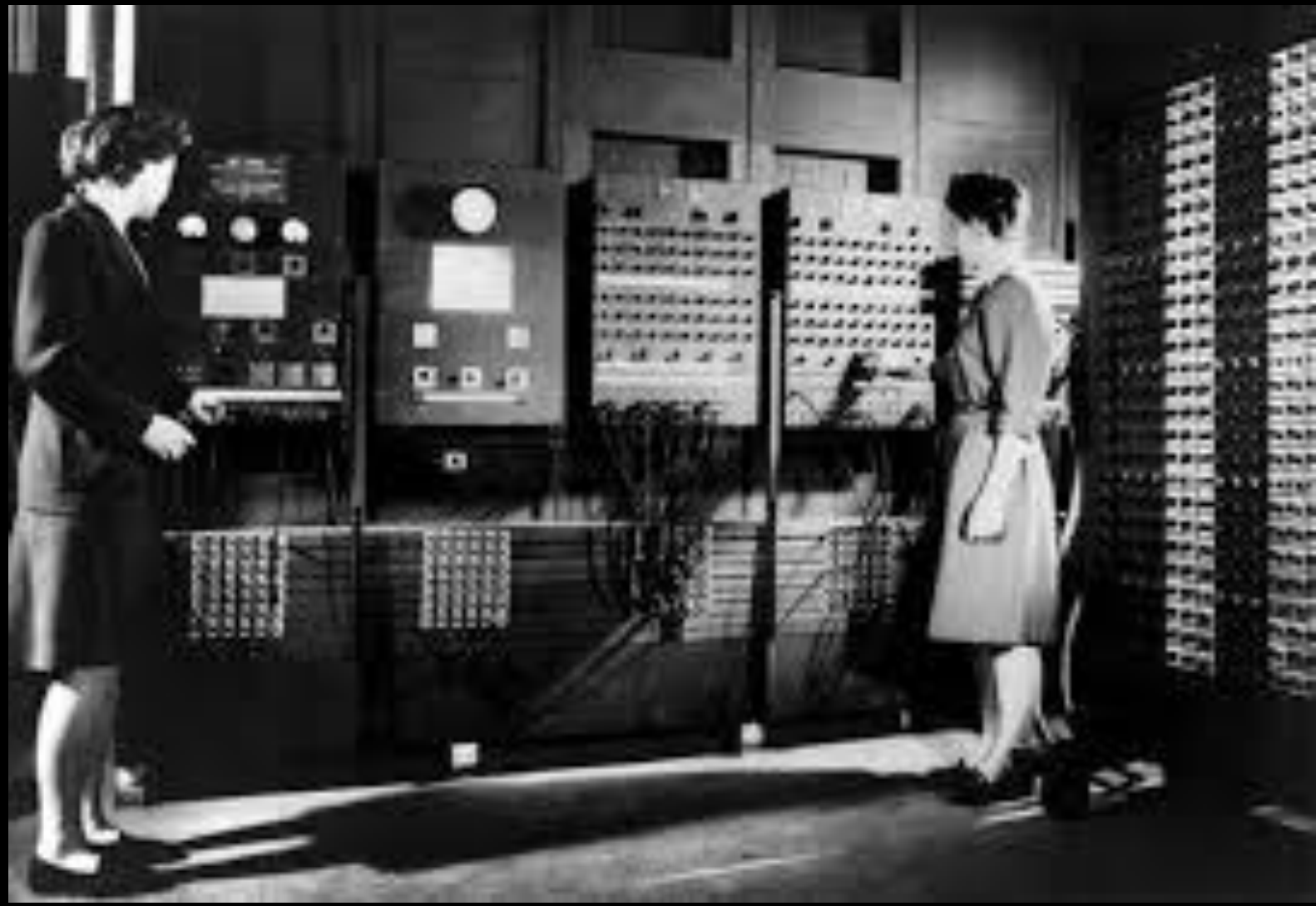
rubrik

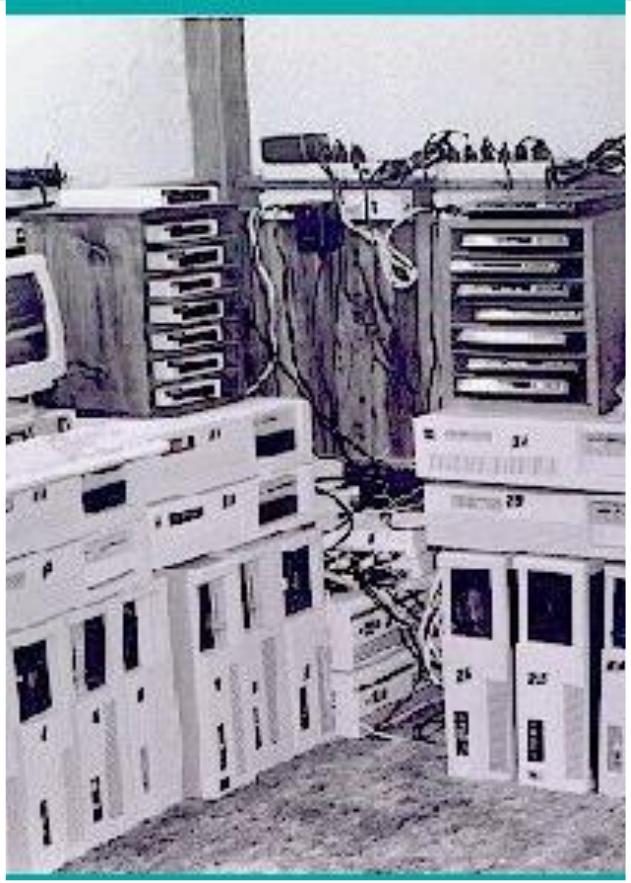
@jaap_brasser

Agenda

- What is Cloud Automation
- Azure Automation
- Microsoft Flow
- Azure Functions
- Q & A

First server



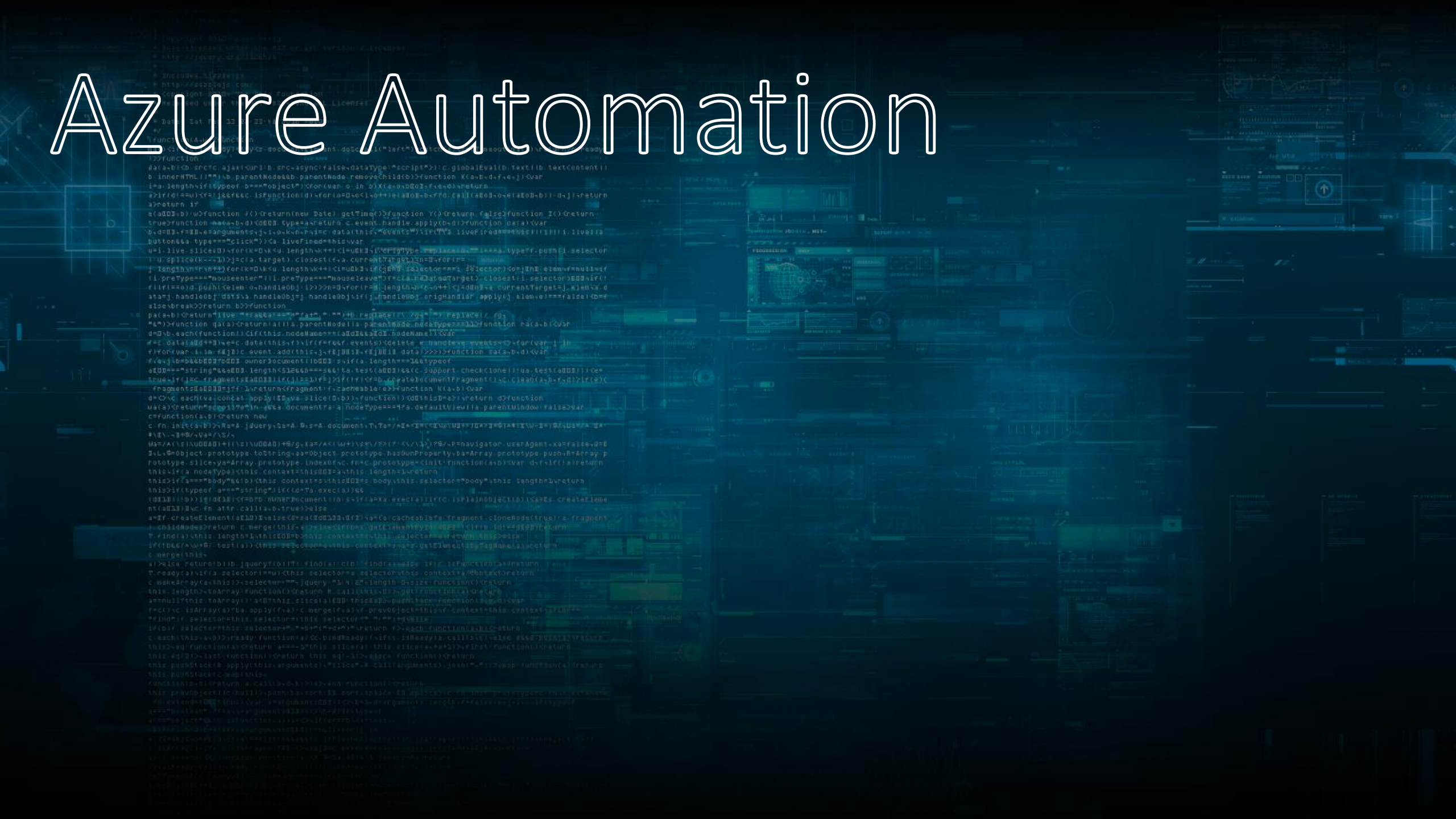


Servers through the years

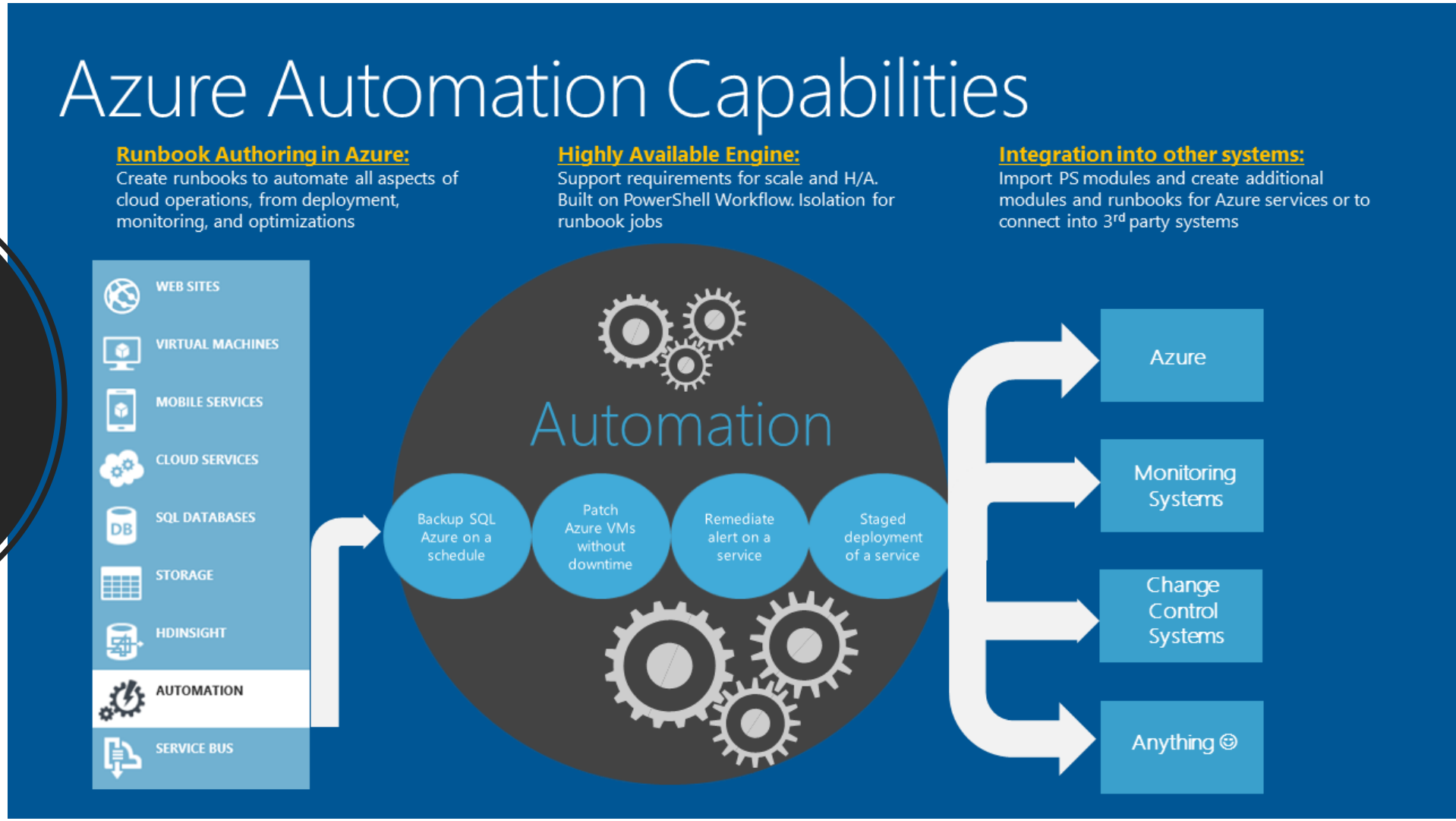
Cloud Automation

Microsoft Flow

Azure Automation



Azure Automation



Demo

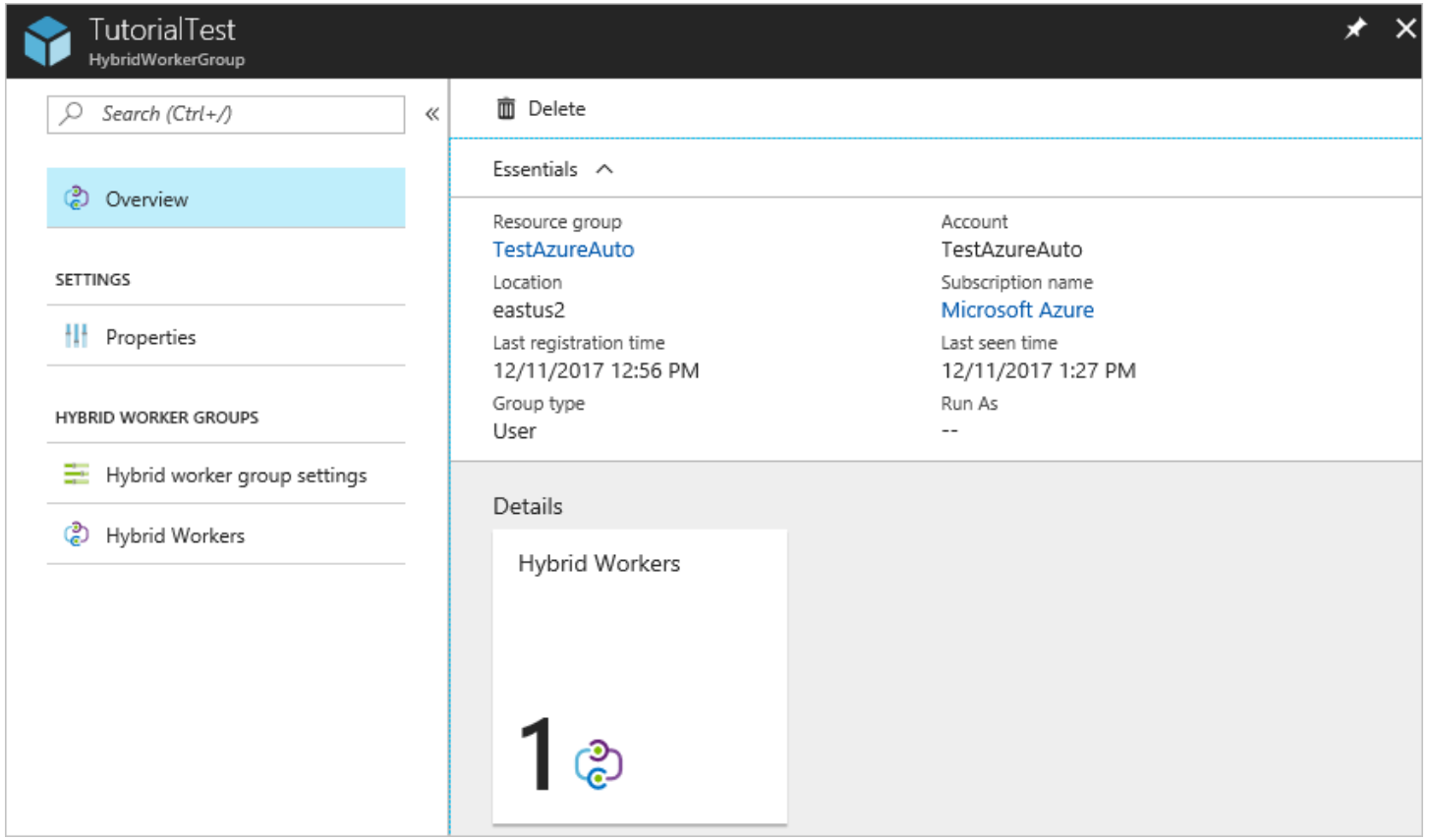
Hybrid Runbook Workers

```
PS C:\WINDOWS\system32> find-script "New-OnPremiseHybridWorker"

Version    Name                                Repository           Description
-------    ----                                ----------           -----------
1.5        New-OnPremiseHybridWorker           PSGallery            This Azure/OMS Automation runbook onboa..


PS C:\WINDOWS\system32> find-script "New-OnPremiseHybridWorker" | install-script
```

Find and Install PowerShell script

```
PS C:\WINDOWS\system32> New-OnPremiseHybridWorker.ps1

cmdlet New-OnPremiseHybridWorker.ps1 at command pipeline position 1
Supply values for the following parameters:
AAResourceGroupName: AzureAutomation
SubscriptionID:
AutomationAccountName: AutomationDavid
HybridGroupName: MiBookWorker
Importing necessary modules...
     Successfully installed version 6.8.1 of AzureRM...
Pulling Azure account credentials...
Accessing Azure Automation Account named AutomationDavid in region westeurope...
Creating new OMS Workspace named hybridWorkspace66820 in region westeurope...
Downloading and installing the Microsoft Monitoring Agent...
Waiting for agent registration to complete...
Registering the hybrid runbook worker...
```

Run script to Install Hybrid Runbook Worker

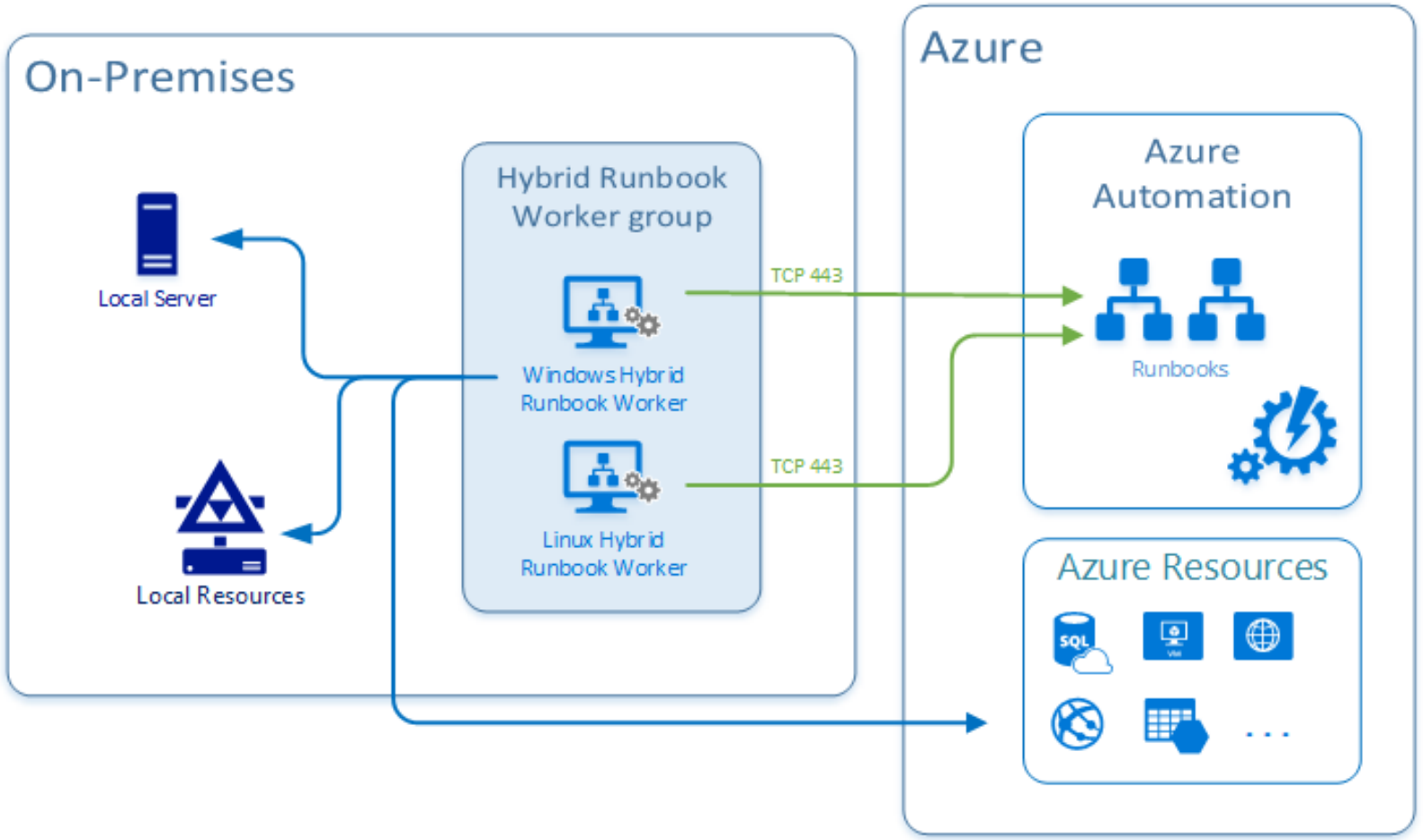


Run script to Install Hybrid Runbook Worker

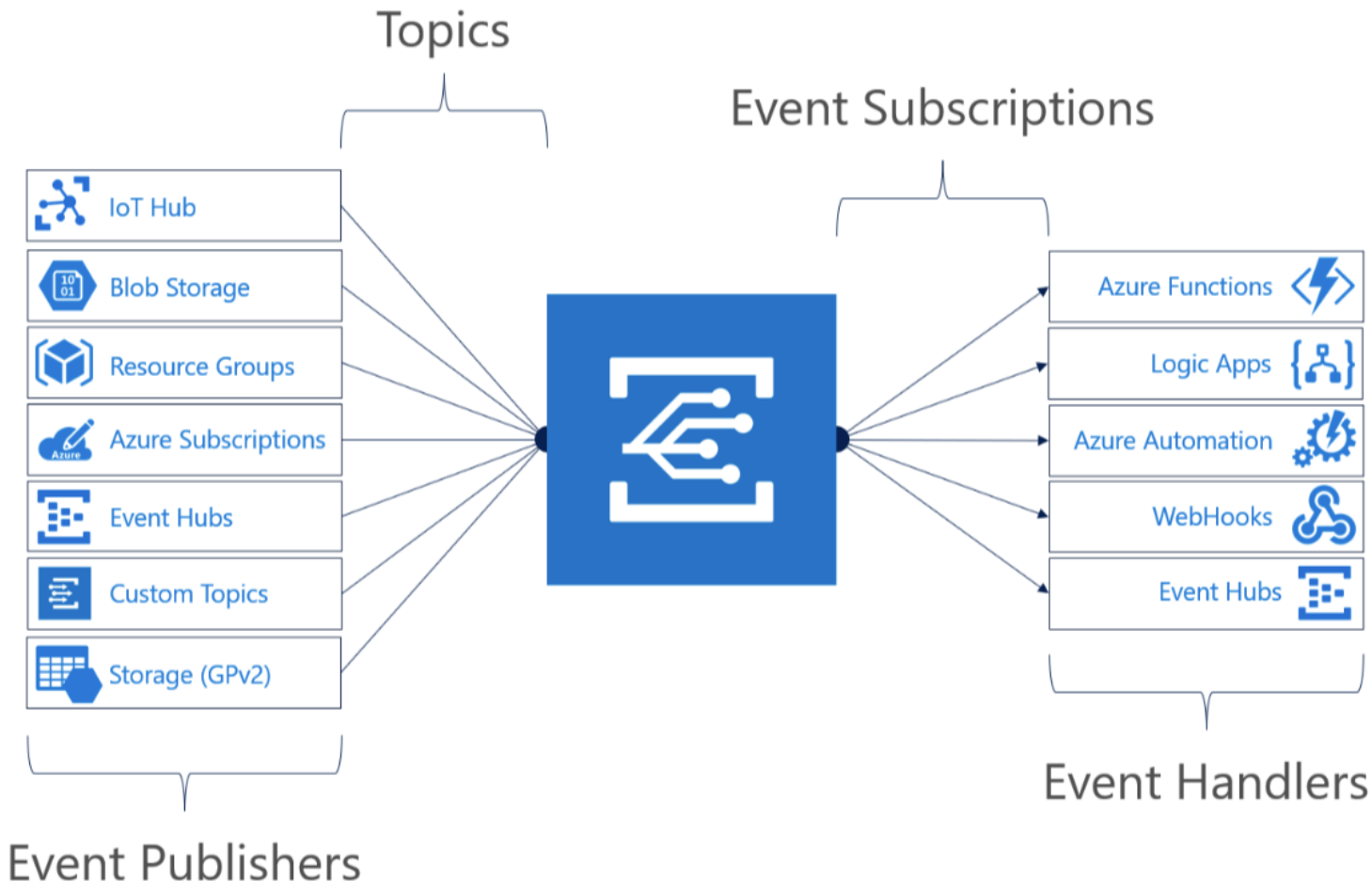
Demo Summary

- Discovered PowerShell script on Gallery
- Installed script using Install-Script
- Added a Hybrid Runbook Worker

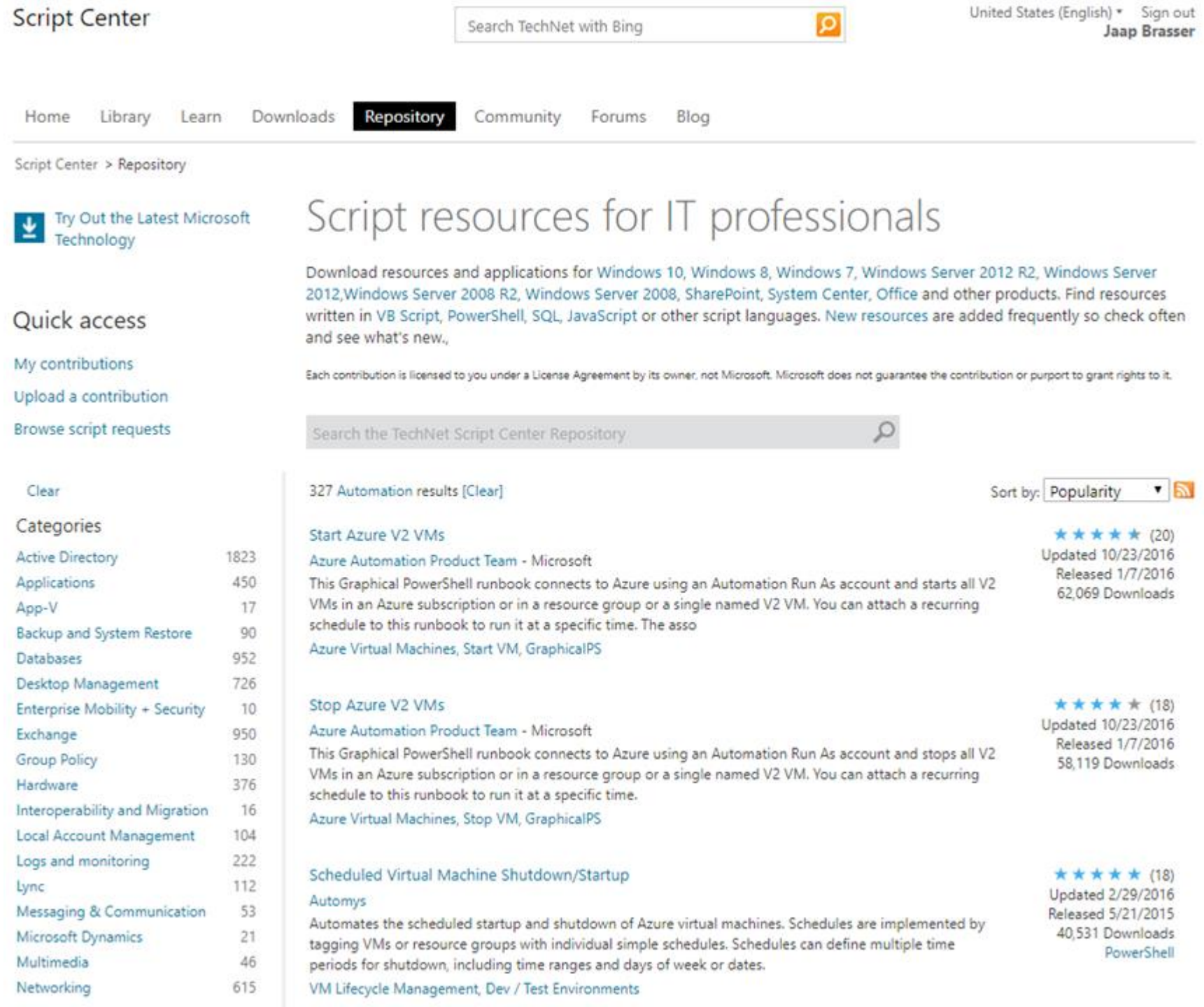
Hybrid Runbook Worker



Event Grid


Topics
Event Subscriptions
IoT Hub
Blob Storage
Resource Groups
Azure Subscriptions
Event Hubs
Custom Topics
Storage (GPv2)
Azure Functions
Logic Apps
Azure Automation
WebHooks
Event Hubs
Event Publishers
Event Handlers

Download example runbooks



Azure Automation Summary

Automate processes

Cross-platform configuration management

Download example runbooks and scripts

Event grid integration

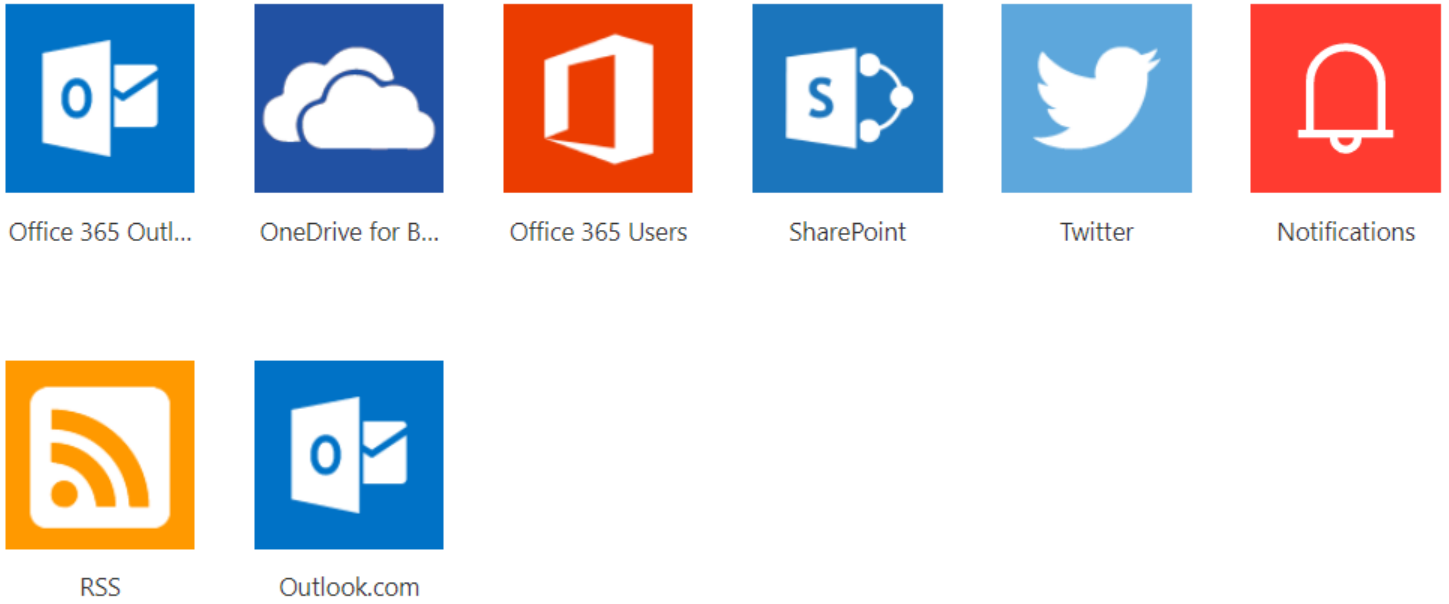
Can run local with Hybrid Runbook Worker

Microsoft Flow

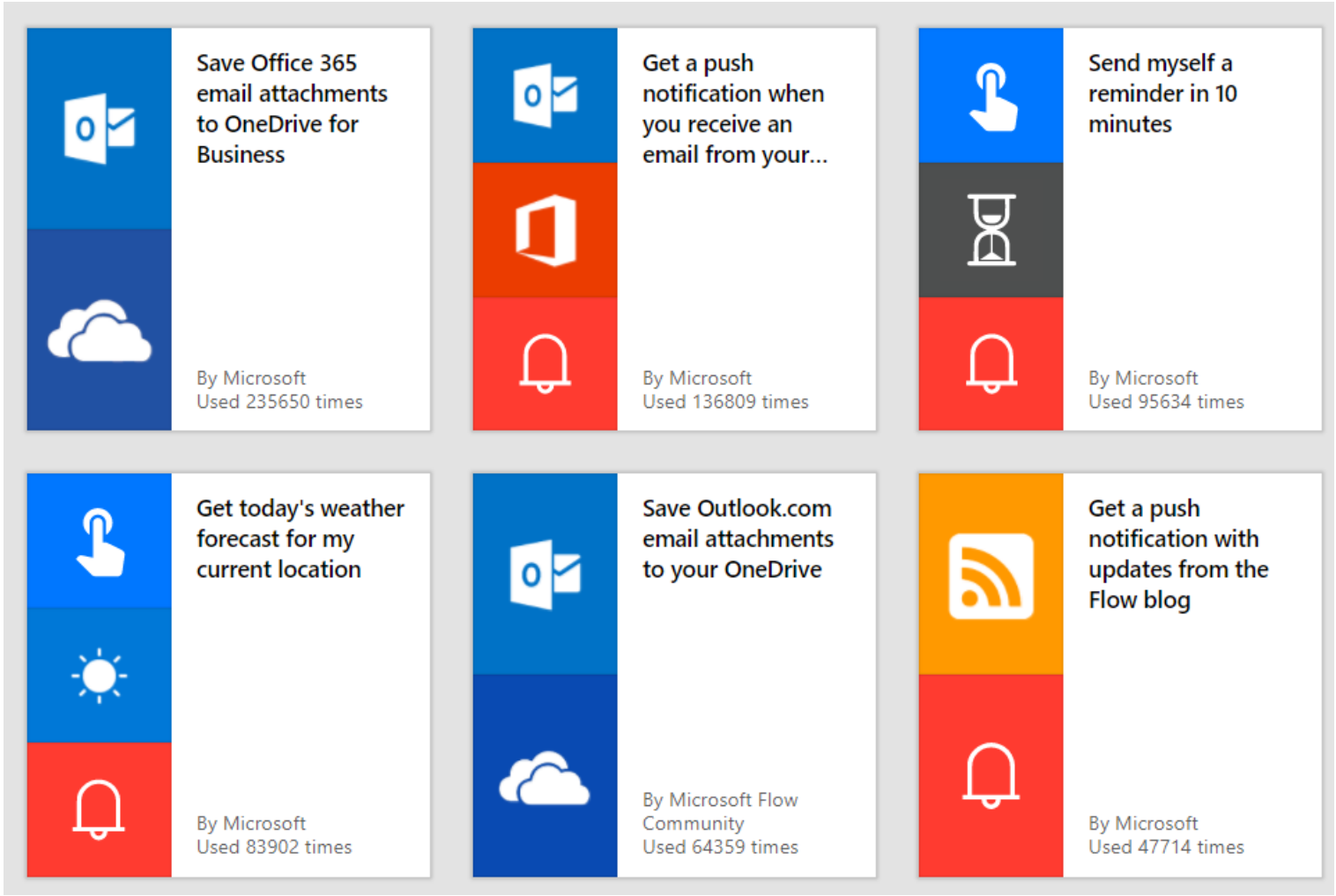
What is Microsoft Flow

Microsoft Flow

Connectors

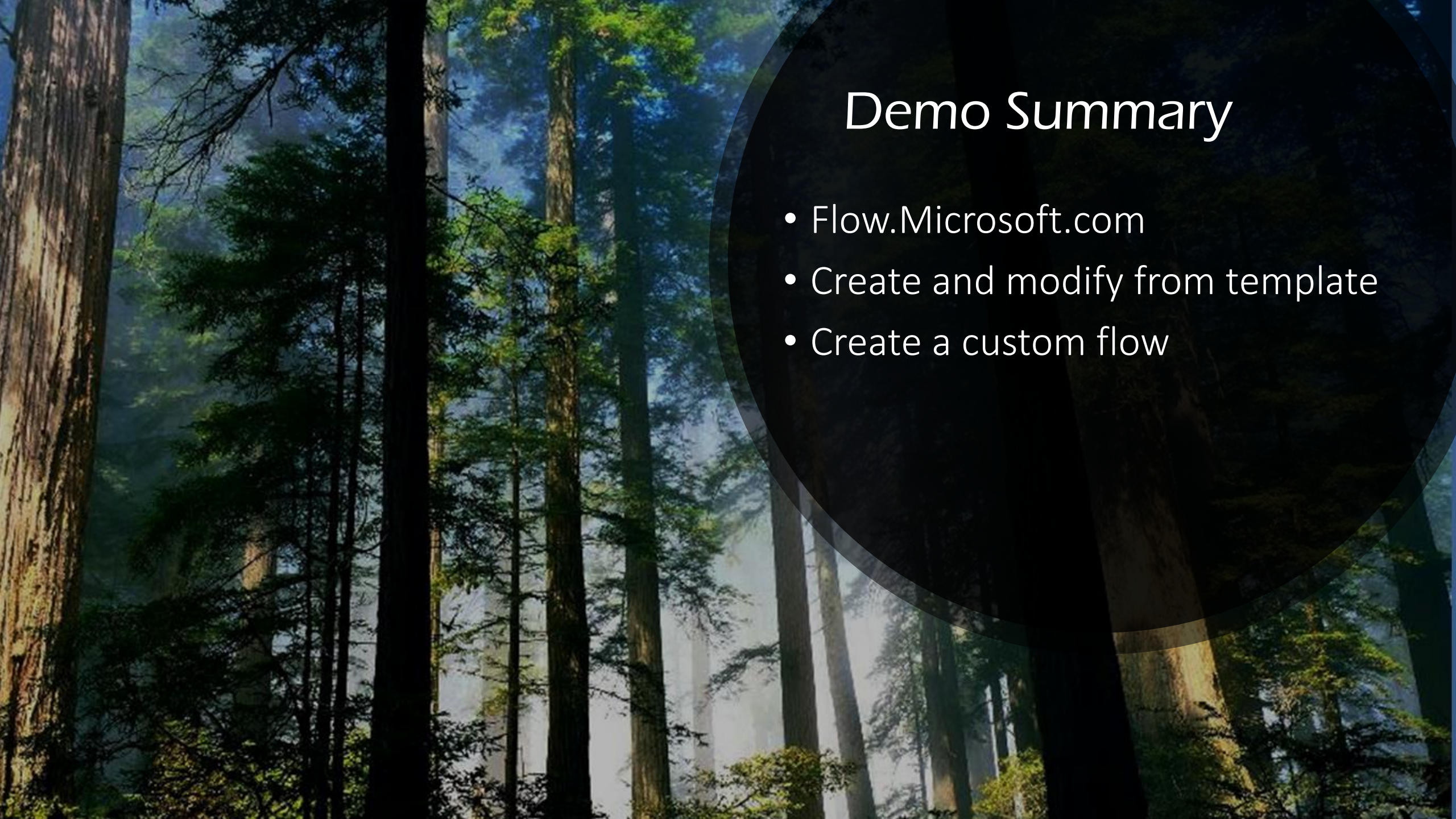

Office 365 Outl...
OneDrive for B...
Office 365 Users
SharePoint
Twitter
Notifications
RSS
Outlook.com
Recently added connectors
AtBot Admin
Marketing Cont...
Pitney Bowes T...
Excel Online (B...
Excel Online (O...
Azure SQL Data...

Flow Templates



Demo

Create your first Flow



Demo Summary

- Flow.Microsoft.com
- Create and modify from template
- Create a custom flow

Request Limits

Request limits

These are limits for a single outgoing request.

Timeout

Name	Limit
Request Timeout	120 Seconds

Message size

Name	Limit	Notes
Message size	100 MB	Not all APIs support the full 100MB.
Expression evaluation limit	131,072 characters	`@concat()`, `@base64()`, `string` can't exceed this limit.

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	

Microsoft Flow Summary

Use connectors to get data

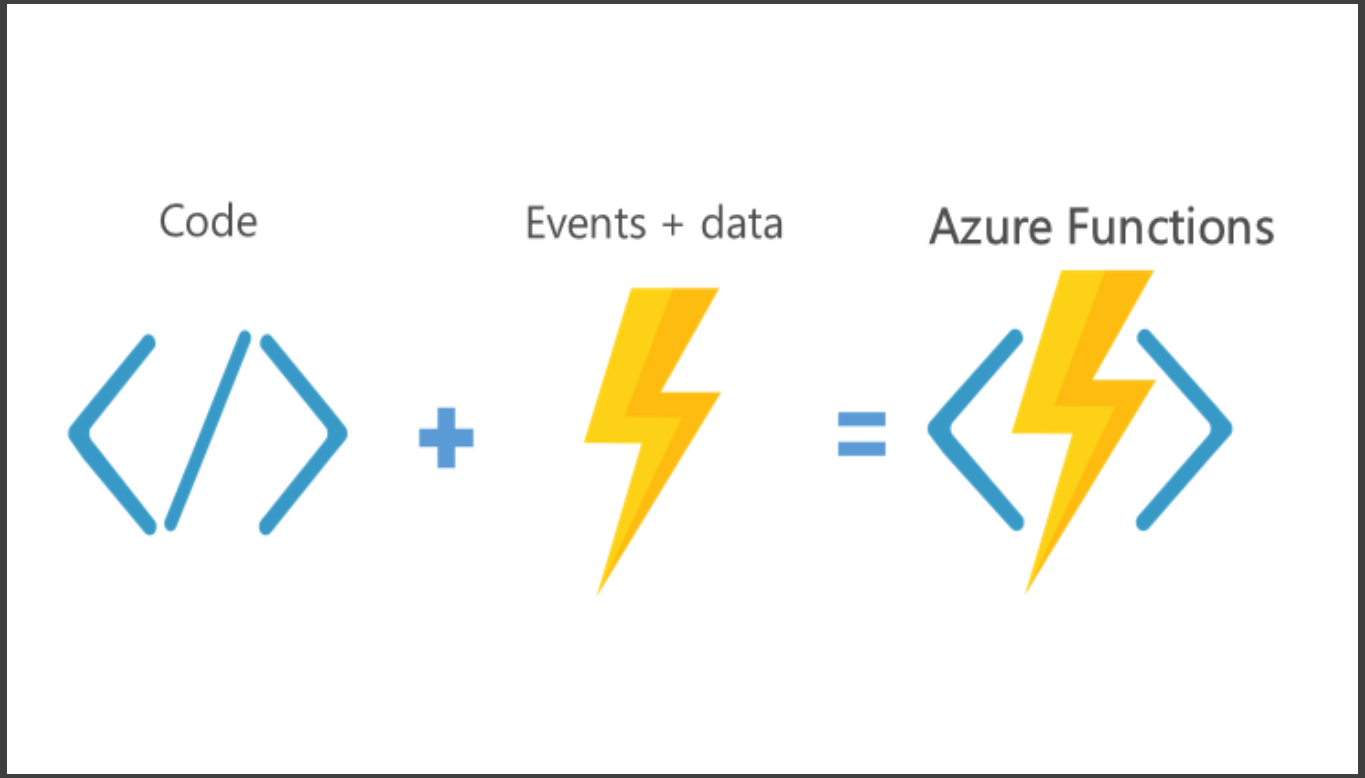
Create triggers based on this data

Build workflows

Integrate and combine different services

Azure Functions

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 solving?

Using our scripting skills in the cloud

Re-using existing code / scripts

Faster deployment

Less maintenance

Demo 1

Exploring Azure Functions

Demo Summary

- Triggers available
- Scenarios available
- Experimental flag
- How to create Azure Function
- Delete Azure Function

Azure Functions Summary

Use existing scripting / programming skills

Develop serverless code

Interact with other services

Free tier

functions.azure.com

@jaap_brasser
Questions?