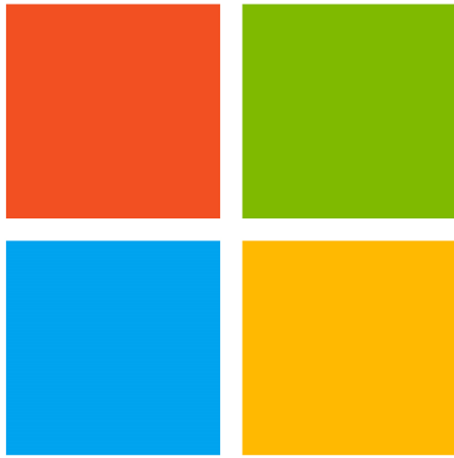


**Powershell quick starts, tutorials,
API reference, and code
examples!**

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geeks

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Developing Serverless Applications with Azure Functions

Jaap Brasser

 [jaap_brasser](#)



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Technologies, Inc.



Microsoft

vmware[®]



SystemFrontier



rubrik



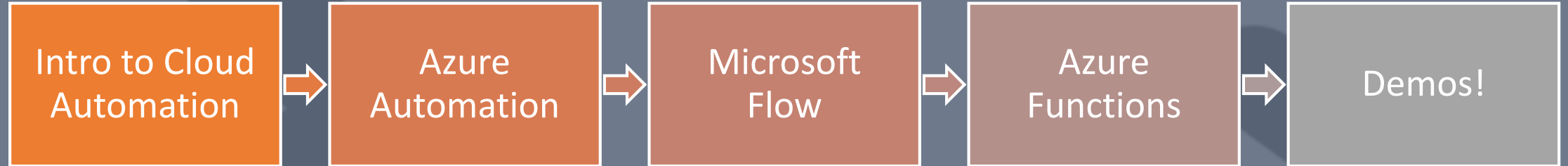
MANNING
Packt
NET ASSIST

Jaap Brasser

Tweets @ jaap_brasser
Blogs @ jaapbrasser.com
Works Tech Marketeer @ Rubrik.com
Does Blogger, Speaker, Tech Enthusiast
Likes Cloud Automation, Scripting & Security



Agenda



Cloud Automation



Microsoft Flow

Code

Events + data

Azure Functions



Azure Automation

Azure Automation Capabilities

Runbook Authoring in Azure:

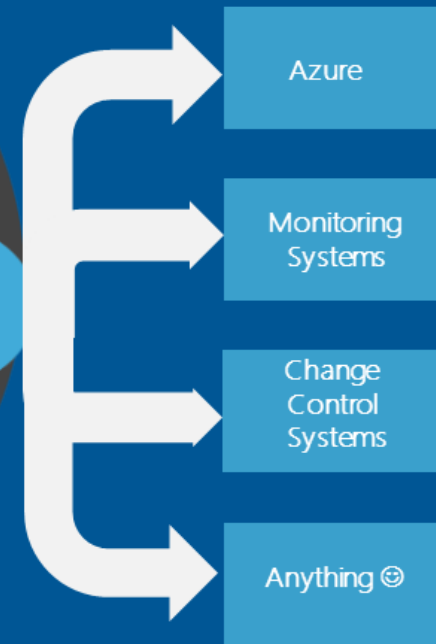
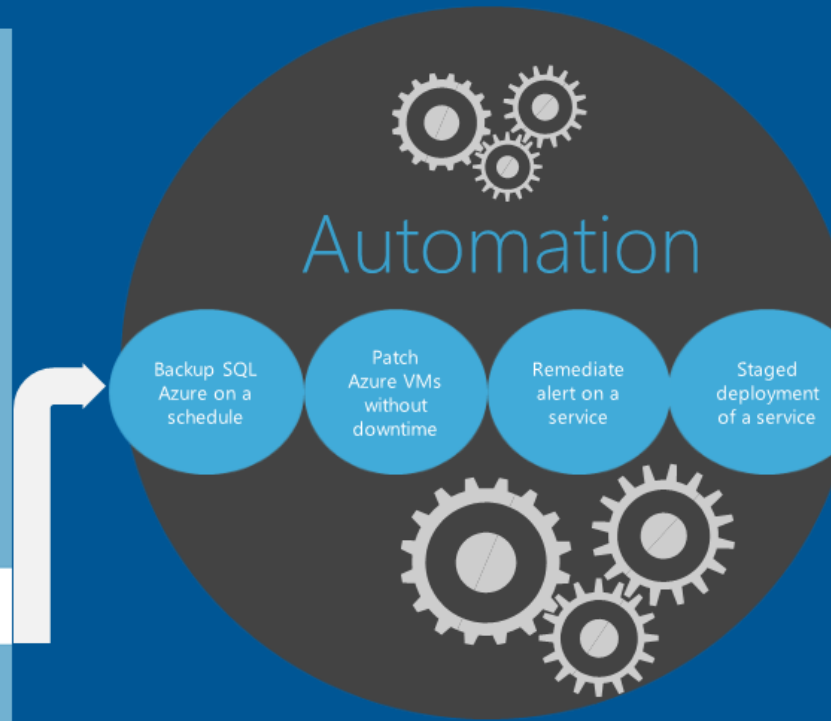
Create runbooks to automate all aspects of cloud operations, from deployment, monitoring, and optimizations

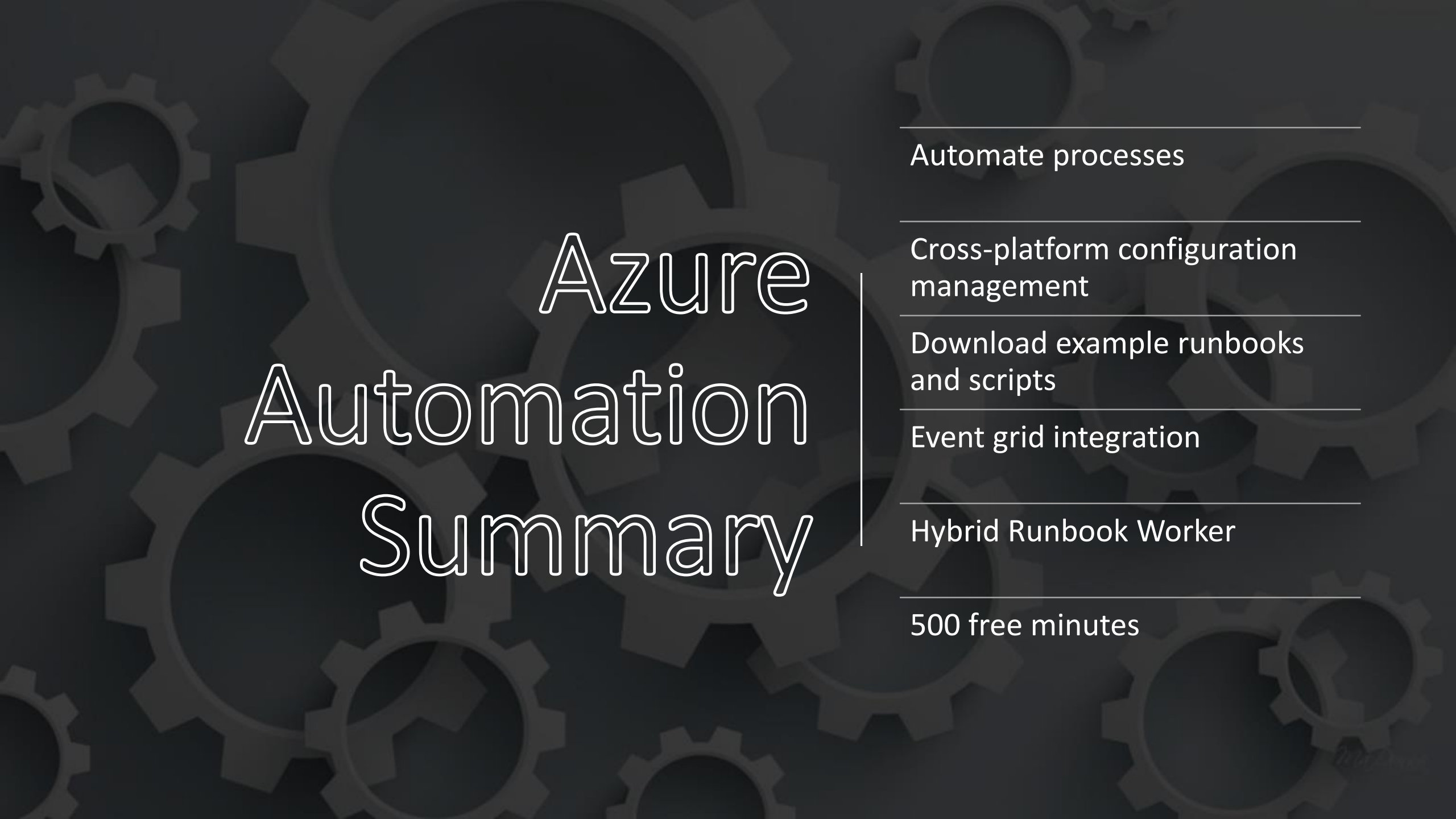
Highly Available Engine:

Support requirements for scale and H/A. Built on PowerShell Workflow. Isolation for runbook jobs

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

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



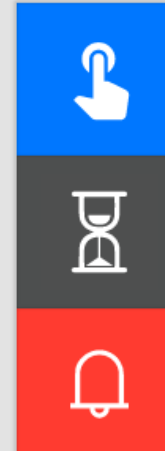
Save Office 365 email attachments to OneDrive for Business

By Microsoft
Used 235650 times




Get a push notification when you receive an email from your...

By Microsoft
Used 136809 times




Send myself a reminder in 10 minutes

By Microsoft
Used 95634 times




Get today's weather forecast for my current location

By Microsoft
Used 83902 times



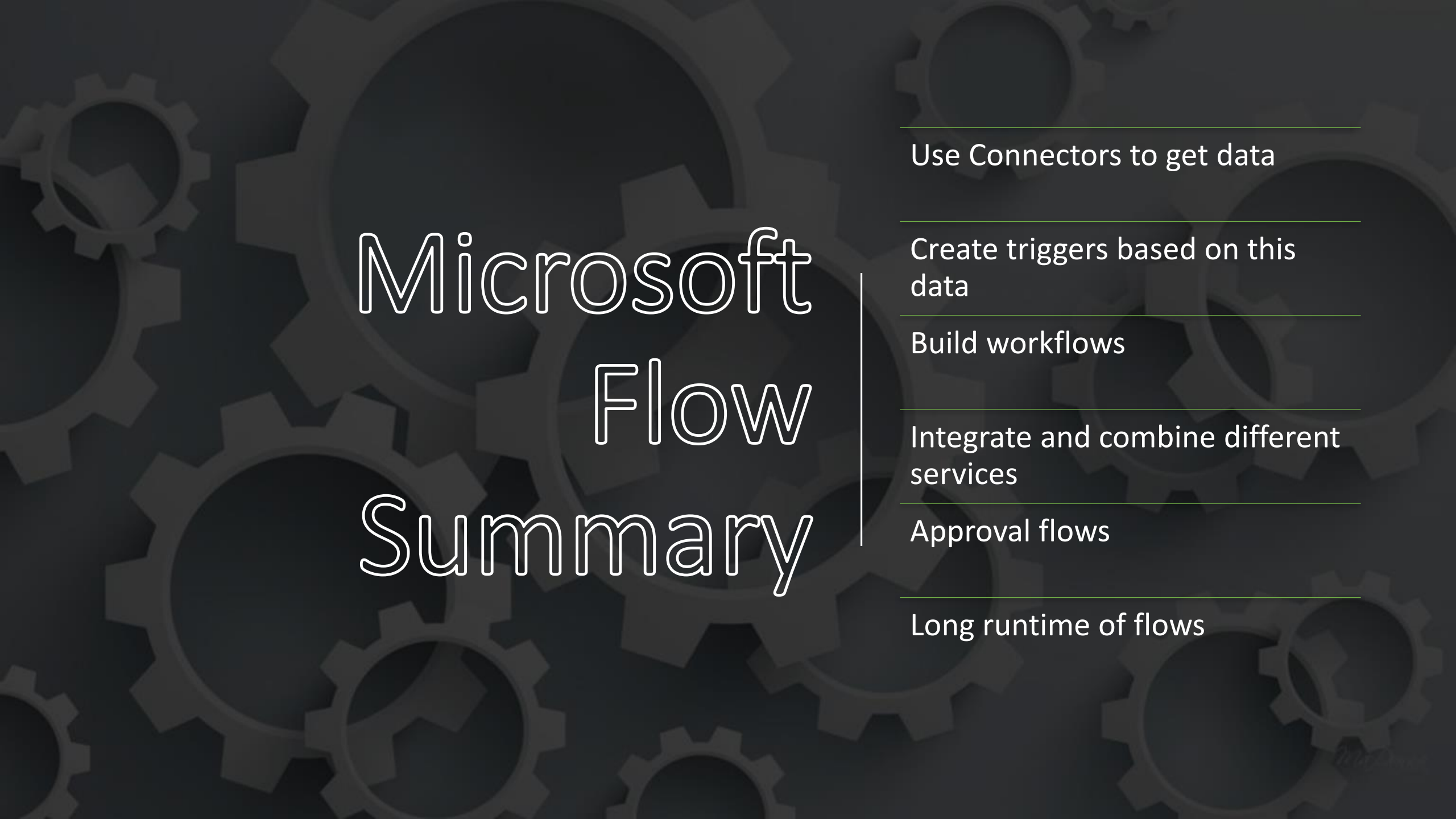
Save Outlook.com email attachments to your OneDrive

By Microsoft Flow Community
Used 64359 times



Get a push notification with updates from the Flow blog

By Microsoft
Used 47714 times



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

Code

Events + data

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



Demo

Exploring Azure
Functions

Demo Summary

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





Experimental Language Support: ☒ Enabled

PowerShell language support is still experimental



Demo

Create timed function

Demo Summary

- Create PowerShell function
- Used cron notation





Demo

Azure PowerShell
Function

Demo Summary

- Which PowerShell version
- What variables are defined
- Saw the variables & files
- Reconfigured function.json
- Used Invoke-RestMethod to run

Summary

Use existing PowerShell skills

Develop serverless code

Interact with other services

Free tier

functions.azure.com

Questions



- Twitter:

- @jaap_brasser
- #PSConfAsia #PowerShell

- GitHub



- github.com/jaapbrasser/events



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#PowerShell

#PSConfAsia

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Photos of Marina Bay Credit: Sebastian Szumigalski