Automate Anything with Microsoft Flow

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SUMMER EDITION

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Agenda

- Cloud Automation
- What is Microsoft Flow
- PowerShell & Flow
- Demos
- Questions

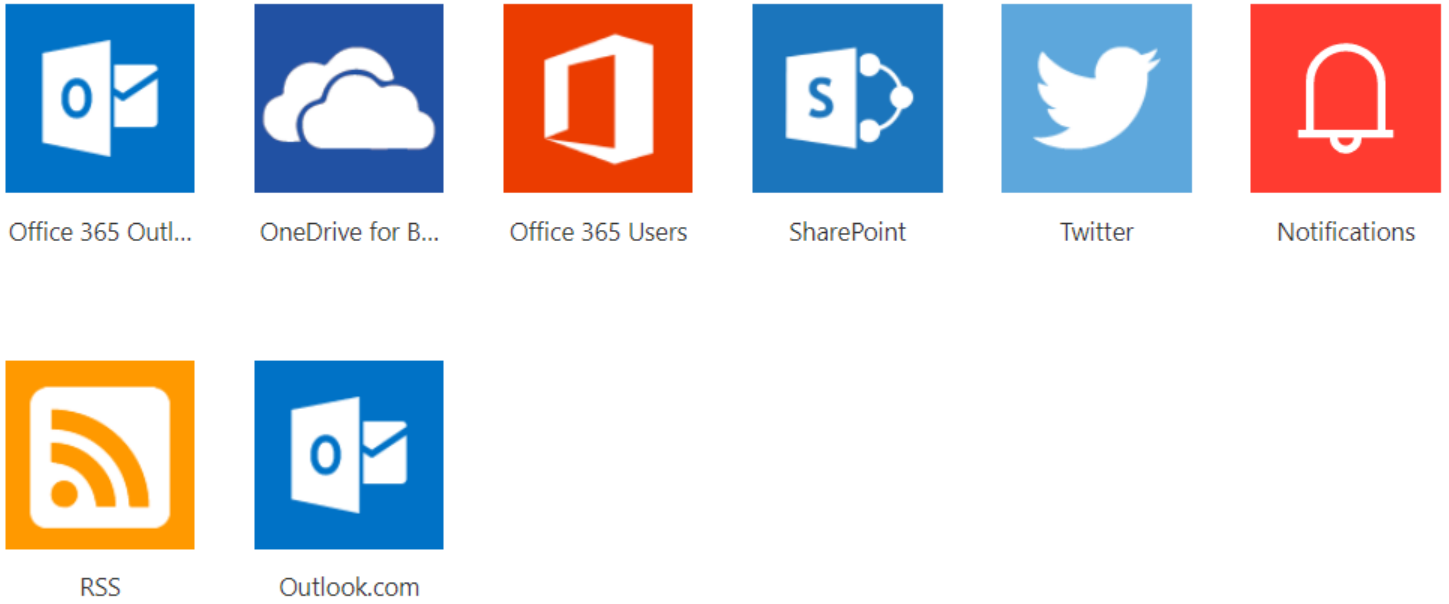
Cloud Automation

Microsoft Flow

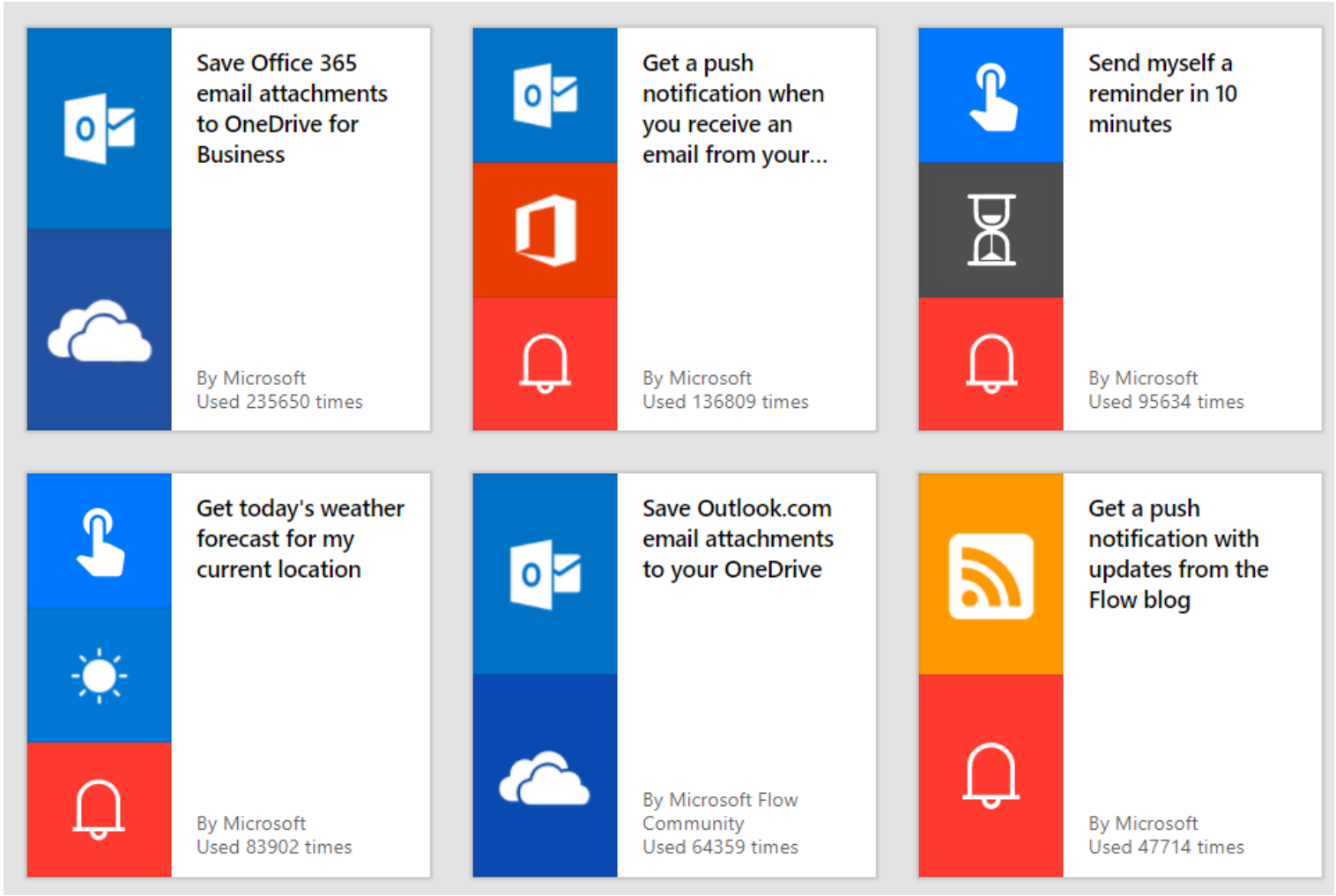
What is Microsoft Flow

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



IFTTT

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Other tools

Why Microsoft Flow?

Use connectors to get data

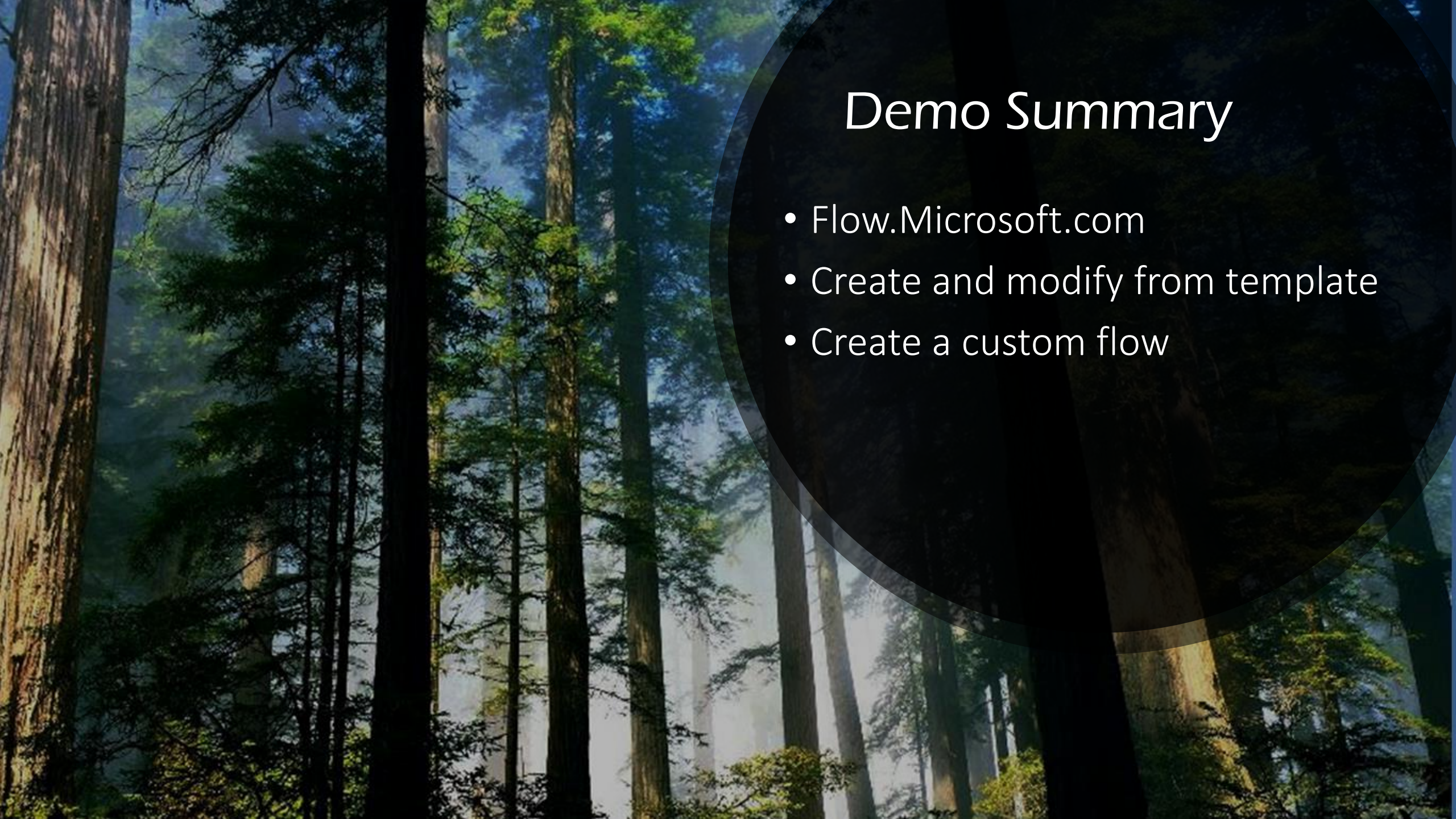
Create triggers based on this data

Build workflows

Integrate and combine different services

Demo

Create your first Flow

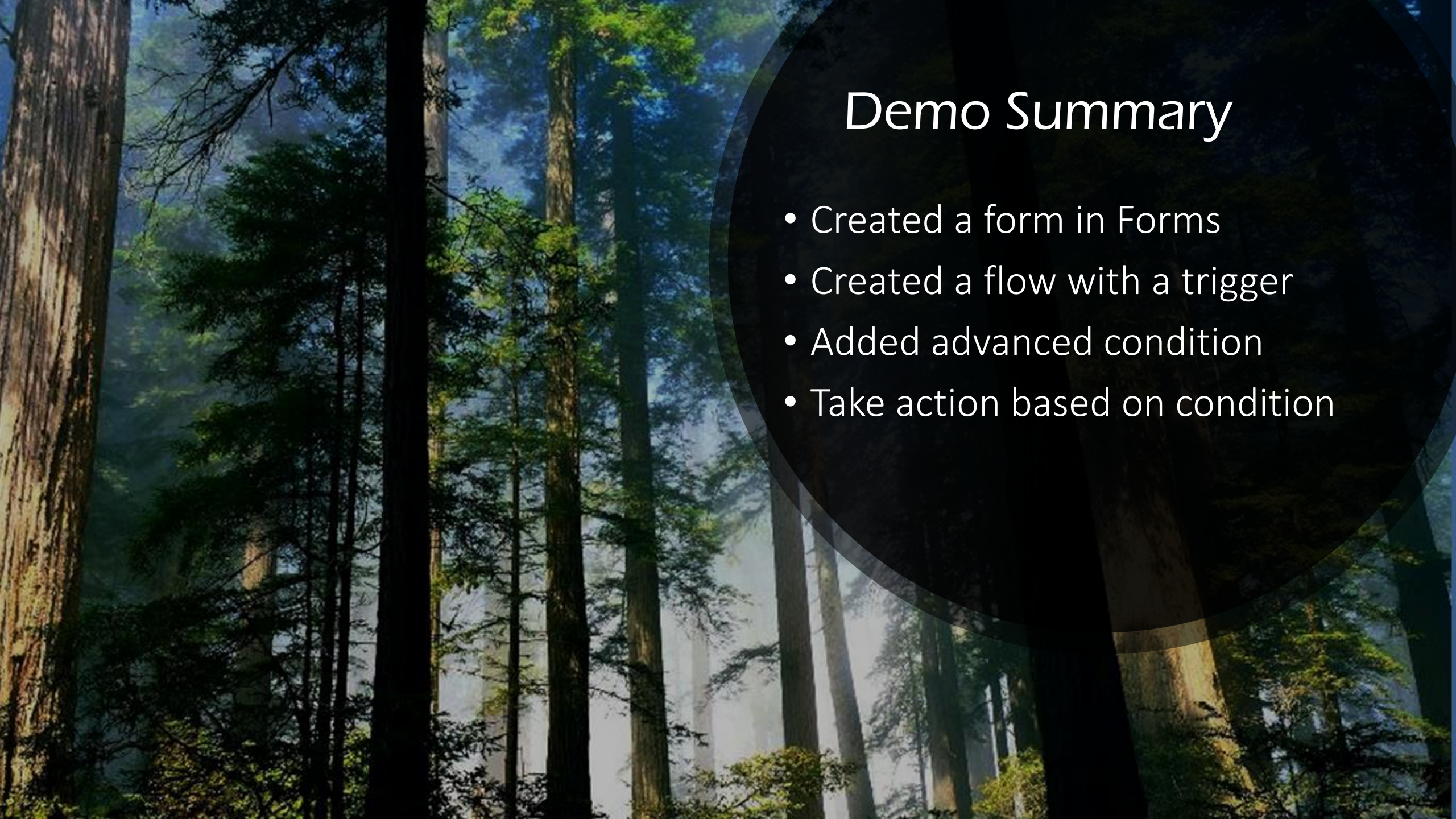


Demo Summary

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

Demo

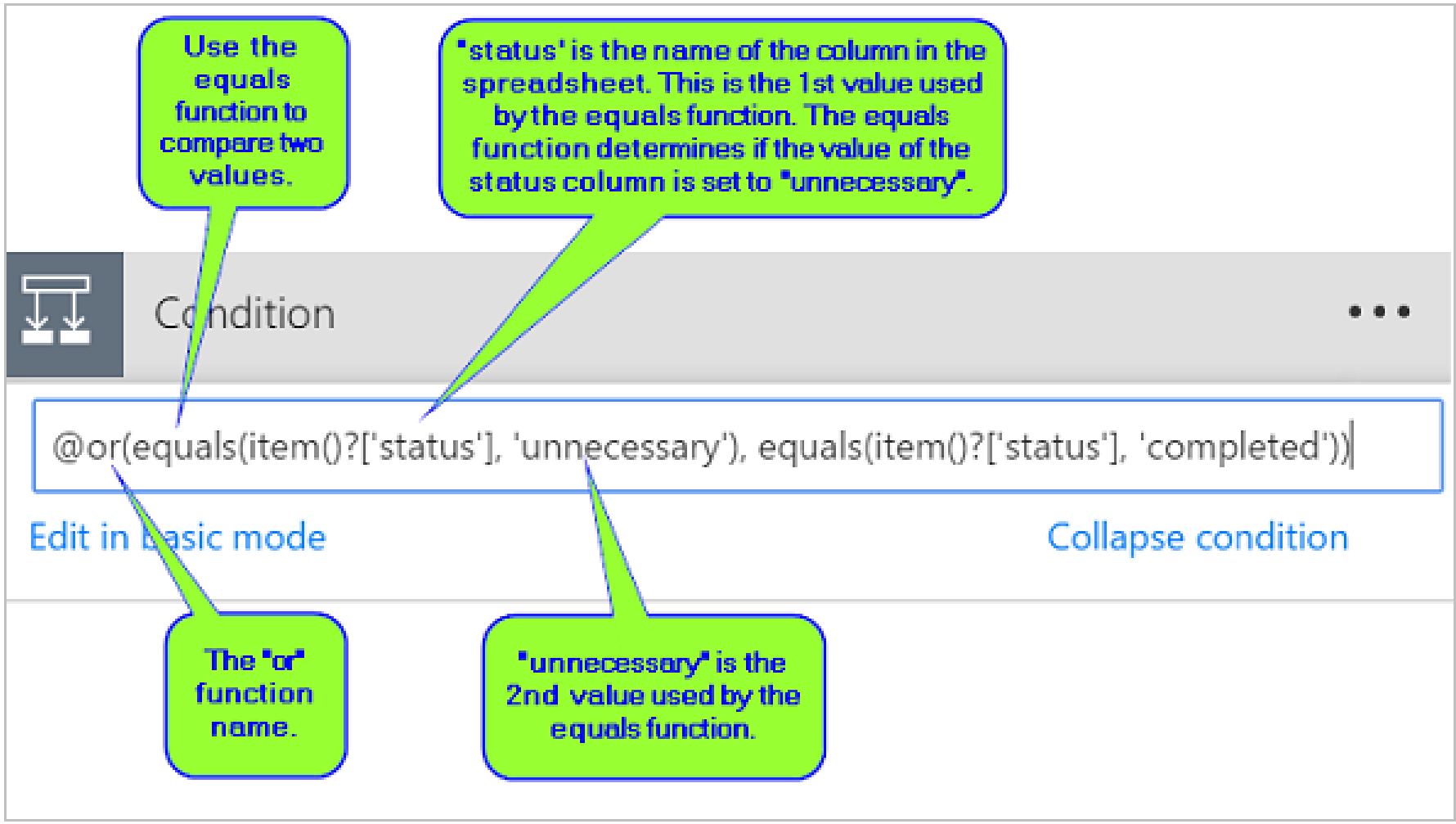
Microsoft Flow & Forms



Demo Summary

- Created a form in Forms
- Created a flow with a trigger
- Added advanced condition
- Take action based on condition

Advanced conditions



($_.status –eq ‘unnecessary’) –or ($_.status –eq ‘completed’)

Demo

Import and Export Flows

Demo Summary

- Export flow
- Zipped json files in package
- Import flow
- Select connectors upon Import

Flow packages

Packaged as zip

- Manifest files
- APIs
- Connections
- Definition

What are webhooks

A webhook transfers data over HTTP(s)

Create triggers based on this data

Build workflows

Integrate and combine different services

Methods: **Get** & **Post**

Demo

Webhooks and Flow

Encryption!

Bill Sempf
@sempf

Follow

Base64 is not encryption. Base64 is not encryption. Base64 is not encryption. Base64 is not encryption. Base64 is not encryption. Base64 is not encryption. Base64 is not encryption. Base64 is not encryption. Base64 is not encryption.

11:10 PM - 23 Apr 2018

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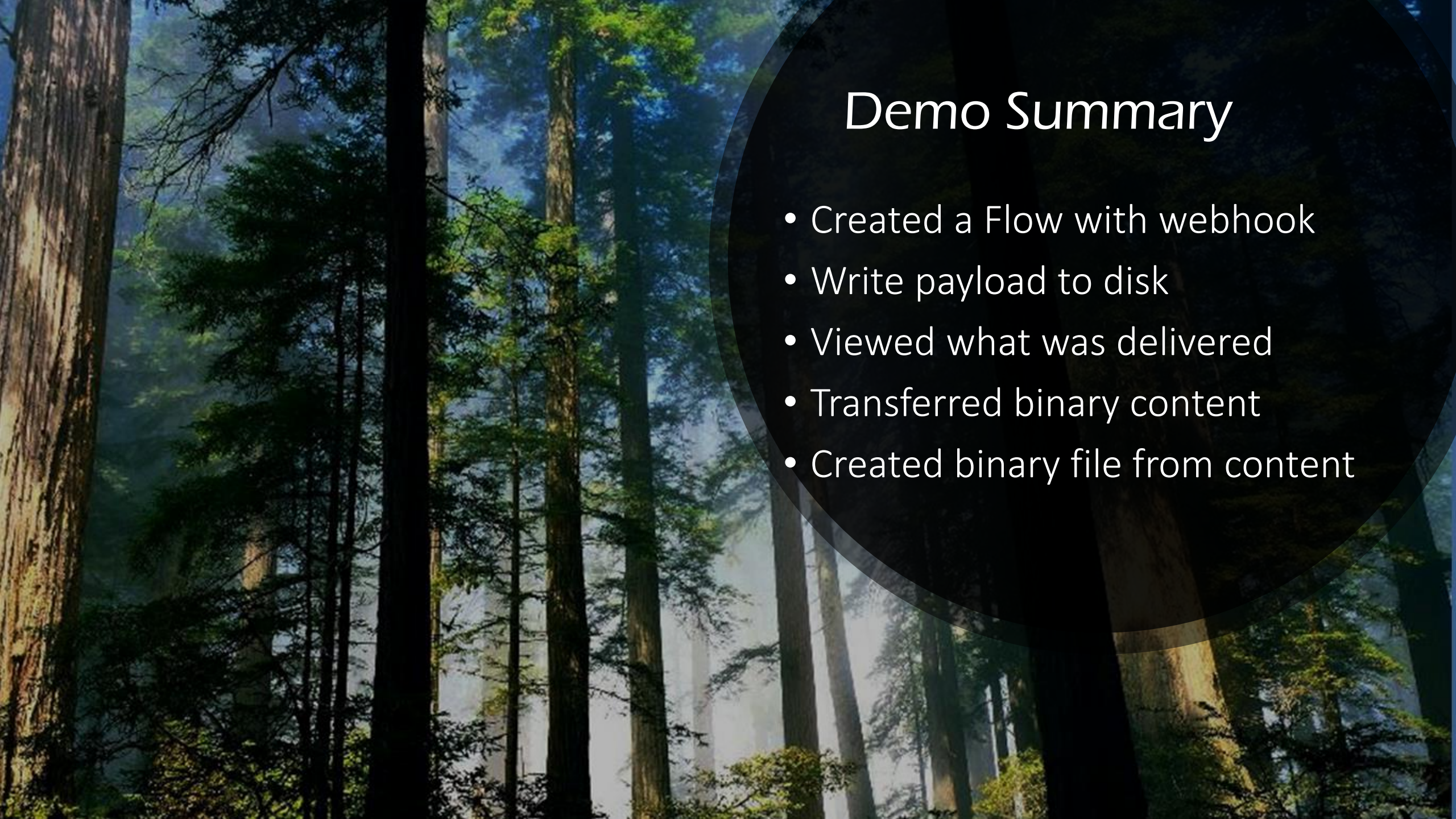
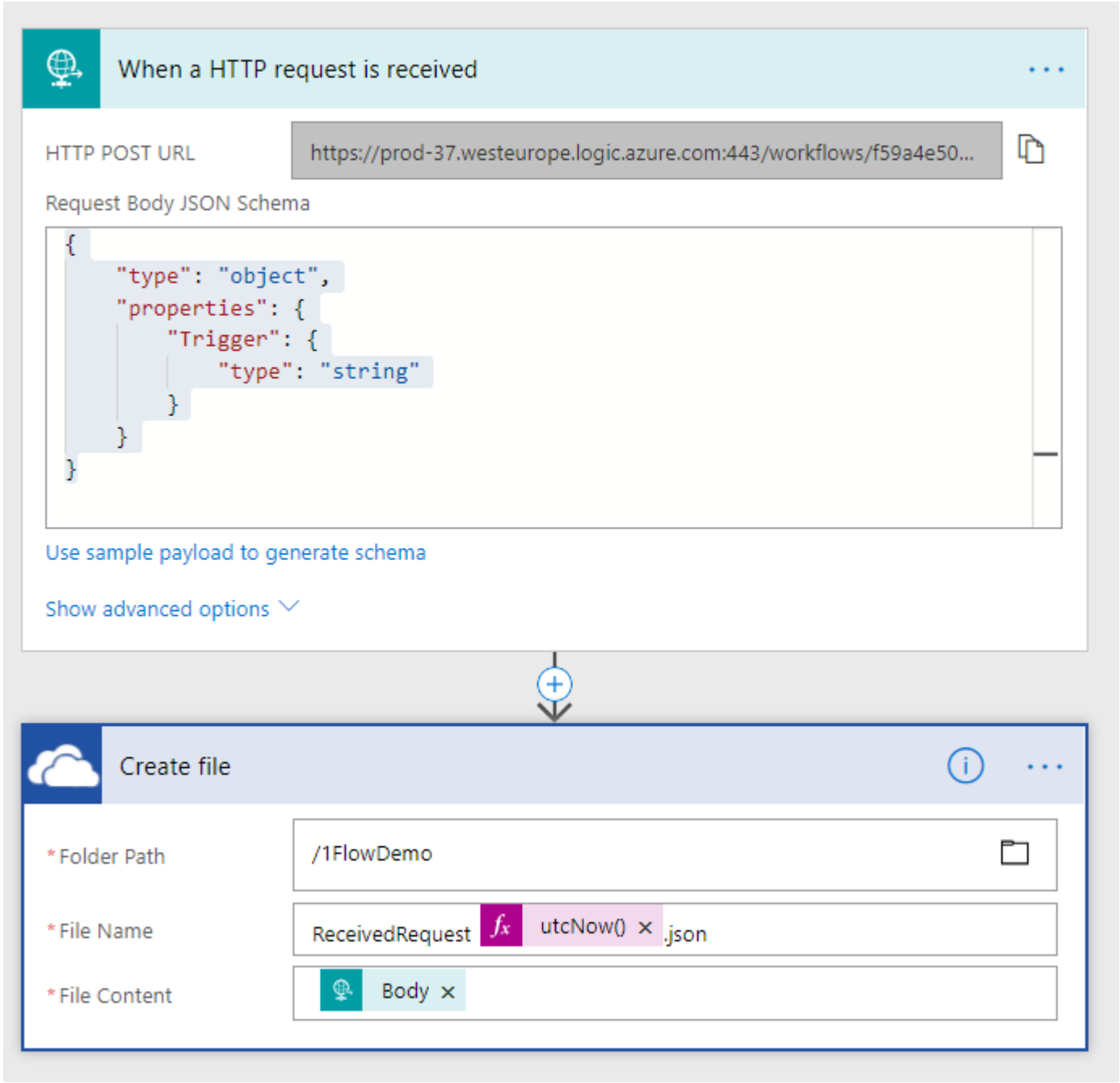


Demo Summary

- Created a Flow with webhook
- Write payload to disk
- Viewed what was delivered
- Transferred binary content
- Created binary file from content

Request 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

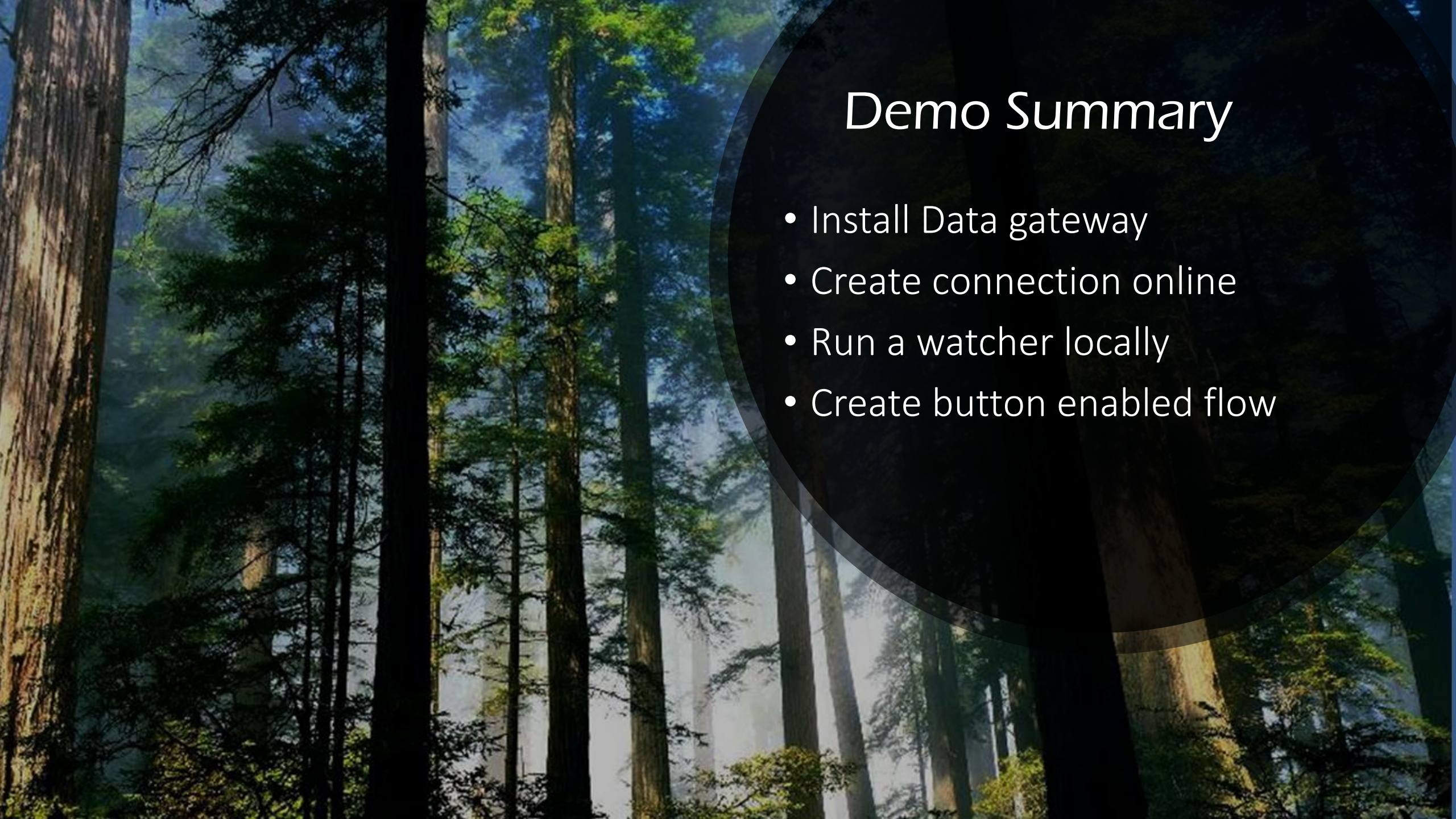
Run duration and retention

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	

Demo

Run PowerShell with Flow



Demo Summary

- Install Data gateway
- Create connection online
- Run a watcher locally
- Create button enabled flow

Data Gateway sources

- SQL Server
- SharePoint
- Oracle
- Informix
- Filesystem
- DB2

Configure ports

The gateway creates an outbound connection to Azure Service Bus. It communicates on outbound ports: TCP 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

Summary

- Use cases of Microsoft Flow
- Microsoft Flow templates
- Took a look at connectors
- Created workflows
- Ran PowerShell triggered by Flow

Questions?

PLEASE FILL IN THE EVALUATION FORM.

YOUR OPINION IS **IMPORTANT!**

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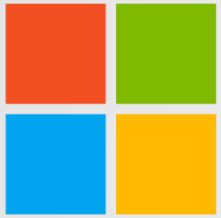

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