


# Introducing **Microsoft Flow**

Successor to SharePoint Designer Workflows



## About me



- Collaboration Practice leader at InfoWorks Inc.
- @DanielGlenn 
- DanielGlenn.com
- User Group leader x2
- Nashville SharePoint & SQL Saturdays





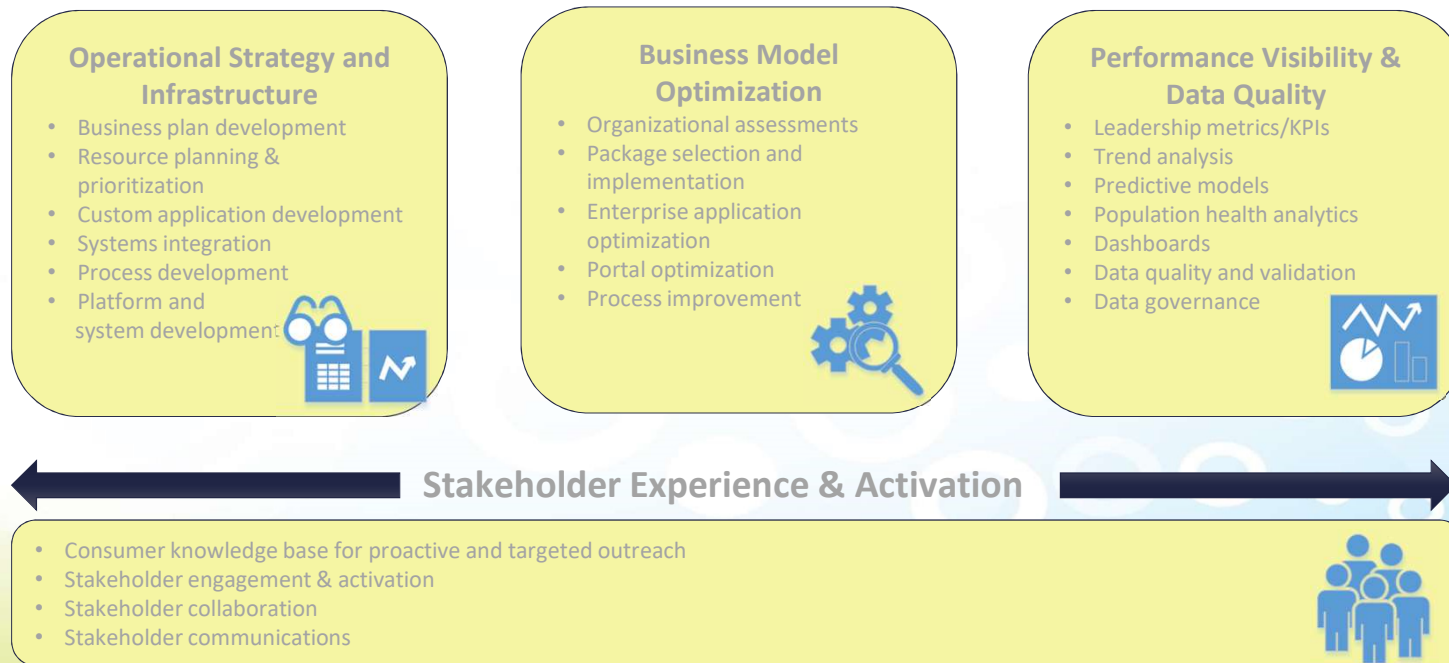
NASHVILLE'S TRUSTED BUSINESS & TECHNOLOGY PARTNER

## SharePoint Users Group

Sponsor Highlight  
October 11, 2016

# Our Services

Consulting services designed for healthcare, universities, financial services, manufacturing, and non-profits. InfoWorks understands the value of developing sustainable business models and strategies with clients and has experience integrating technology to streamline operations and increase productivity.



## Our Capabilities



# Some of Our People



**MEREDITH FICKEN**  
PM/BA/Scrum Master



**CHAD DAVIS**  
Data Integration &  
Analytics SME



**EMILY YOUNG**  
Senior Business Analyst



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Sr. SharePoint Consultant



**ALAN TAYLOR, MS, PMP**  
Lean/Six Sigma Black Belt



**KRISTIN BOLLINGER, M.ED., PMP**  
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Solutions Group



**MISTY LEOPPER, MBA**  
PM, Business & Technical Consultant



**GIB BOWDEN**  
Business Analyst/  
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**MITCHELL BLUE, MS**  
Senior Software  
Developer



**BRETT KELLEY**  
PM & Software Development SME



**LAURA BUCHANAN, RN, MBA**  
Clinical Operations SME &  
Healthcare BA

# Agenda

## Background

What is Microsoft Flow?

Microsoft's Business Application Platform

## Extensibility

Logic apps

Building connectors

Embedding

## Looking forward

How can I get Flow for myself and my organization?

GA this Quarter

## Scenarios

Look at your ideas for automating processes



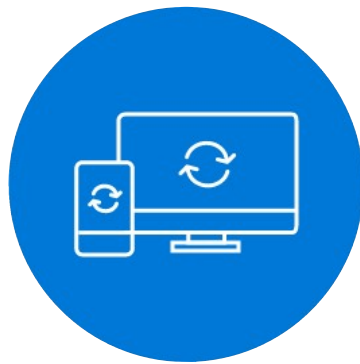




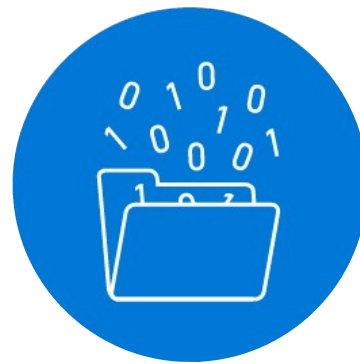
Microsoft Flow helps you work smarter by automating workflow across your apps and services



Get notifications



Synchronize files

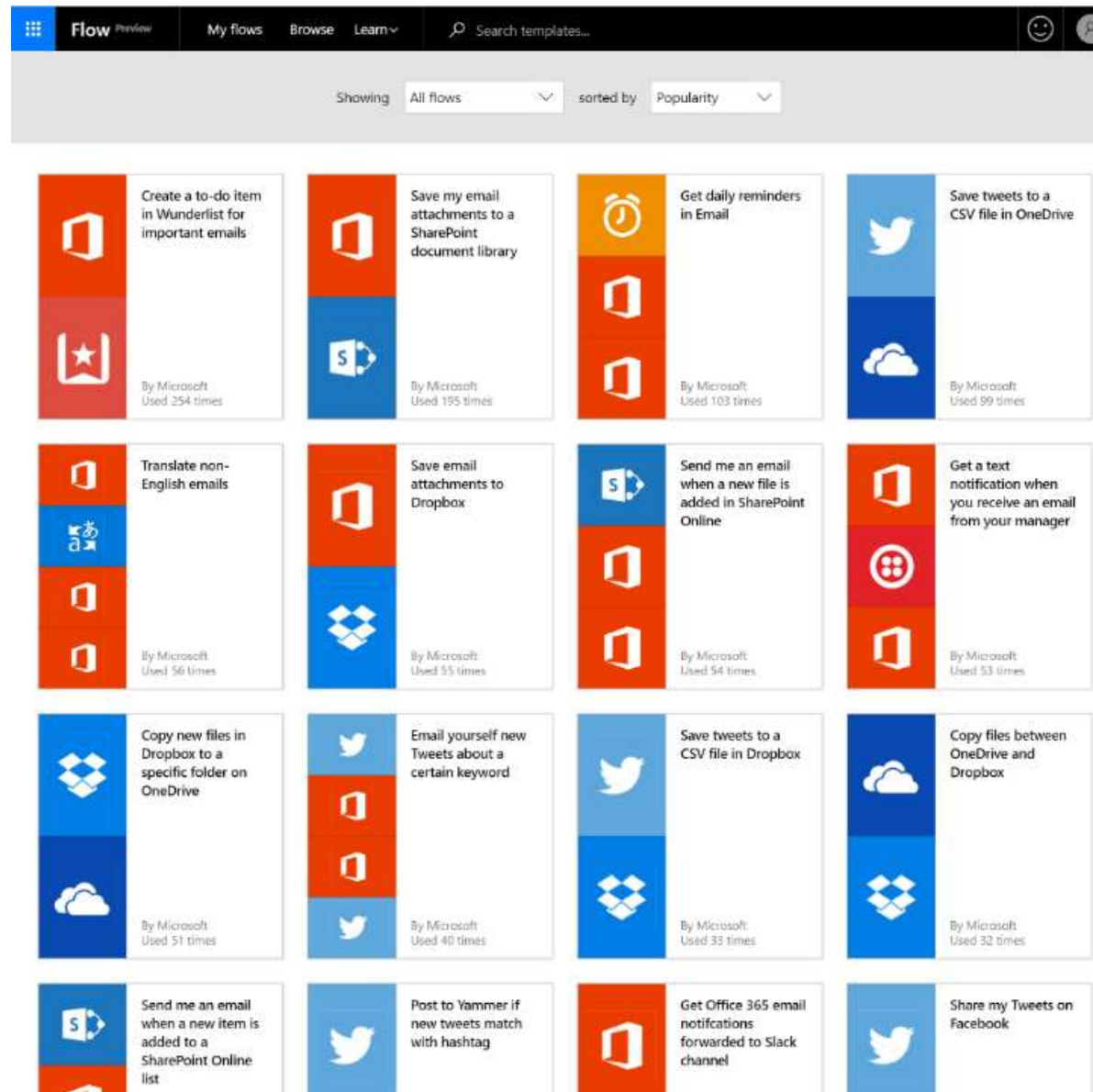


Collect data



Automate approvals

Get started quickly  
with hundreds of  
useful templates



# Build your own flows in an easy to use visual designer

Sending an Exchange email when a new file is added in Dropbox

Authenticate to your Dropbox account.

Select folder to monitor

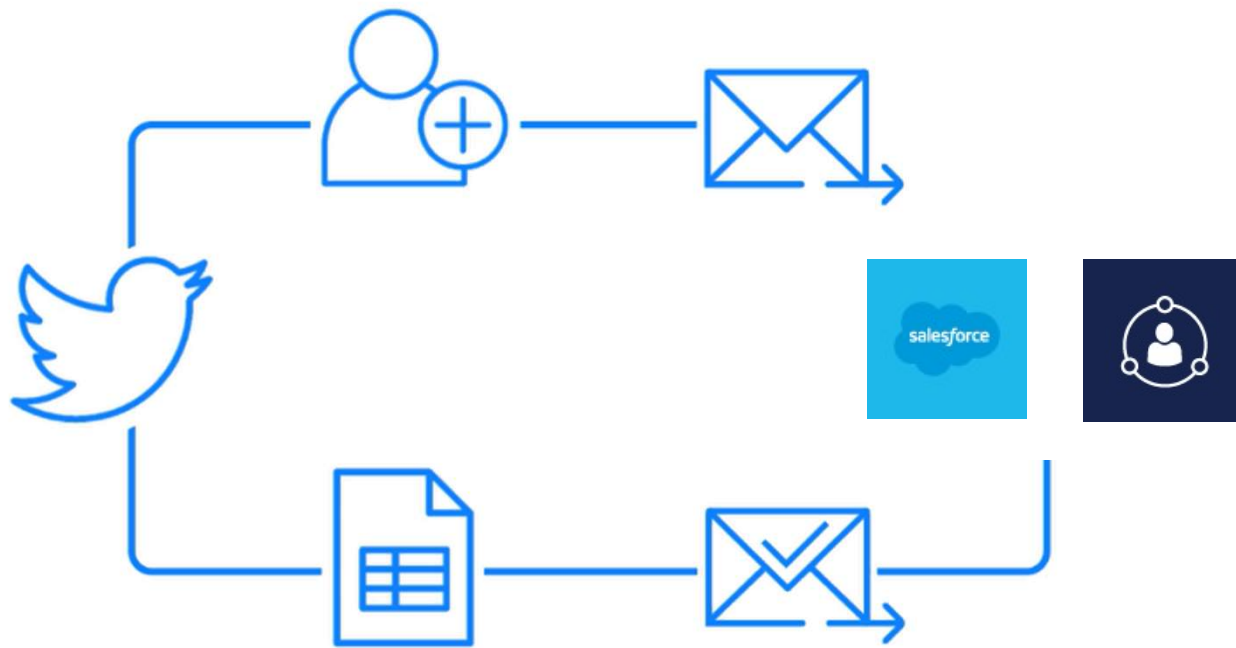
Authenticate to your O365 account.

Build email *Subject* and *Body*

The image shows a Power Automate flow designer interface. At the top, a trigger block 'When a file is created' is connected to an action block 'Send Email'. A 'Dropbox / Dropbox' dialog box is open, showing the 'PowerApps' folder selected. The 'Send Email' action has fields for 'Subject' and 'Body'. The 'Subject' field contains the text 'New file: [File name] has been added to your Dropbox'. The 'Body' field contains the text 'New information available'. Below the body field, there are options to insert data from previous steps, including 'File content', 'File identifier', 'File name', 'File path', 'File entity id', and 'File content type'. The 'Send Email' action also has an 'Include a To' field with a 'To' input field. At the bottom, it shows 'Connected to johnsharp@hotmail.com' and a 'Change connection' link.

Choose to include properties from previous step (Dropbox file) to improve relevance

Specify *Send To* email address and additional properties (optional): *From*, *CC*, *BCC* and *Importance*



Automate advanced scenarios with multiple steps,  
branching conditions, and more

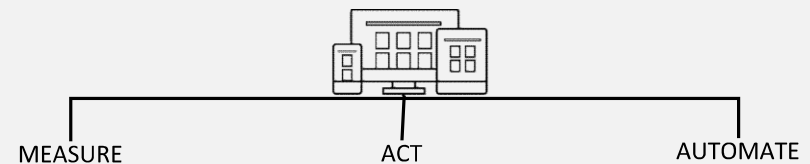


Integrate the systems  
you're already using...  
even custom APIs.

# Business application platform innovation

## Build modern business apps fast

Compose analytics, user experiences, and automation using an integrated set of services from Microsoft



## Empowered power users

People who understand their business needs best can now build apps quickly without writing code



Power BI



PowerApps



Microsoft Flow

## More efficient developers

Seamlessly extend capabilities for power users and leverage powerful Azure platform services

SQL Server BI  
Data analytics  
Internet of Things (IoT)  
...

App Services  
Service Fabric  
Azure Functions  
...

Logic Apps  
API Management  
BizTalk  
...

## Connected data across apps

Whether built on the Common Data Model or integrated with existing systems, get more value from your data



Common Data Model



Connectors & Gateways



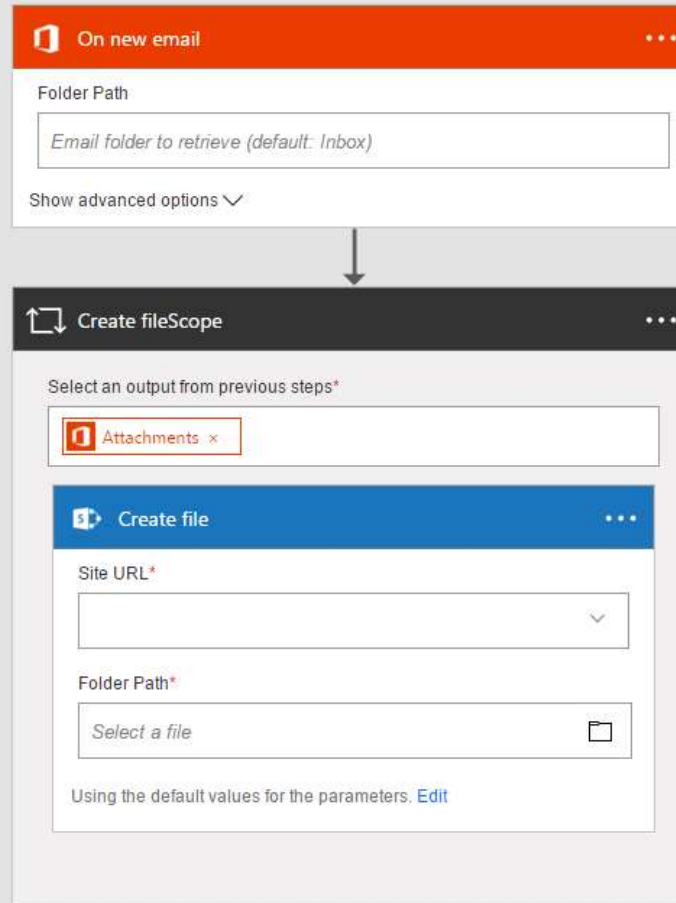
# Examples



# Demo - Productivity

*Problem:* Users inside of your organization often lose their email attachments and searching your email history can be difficult

# Productivity

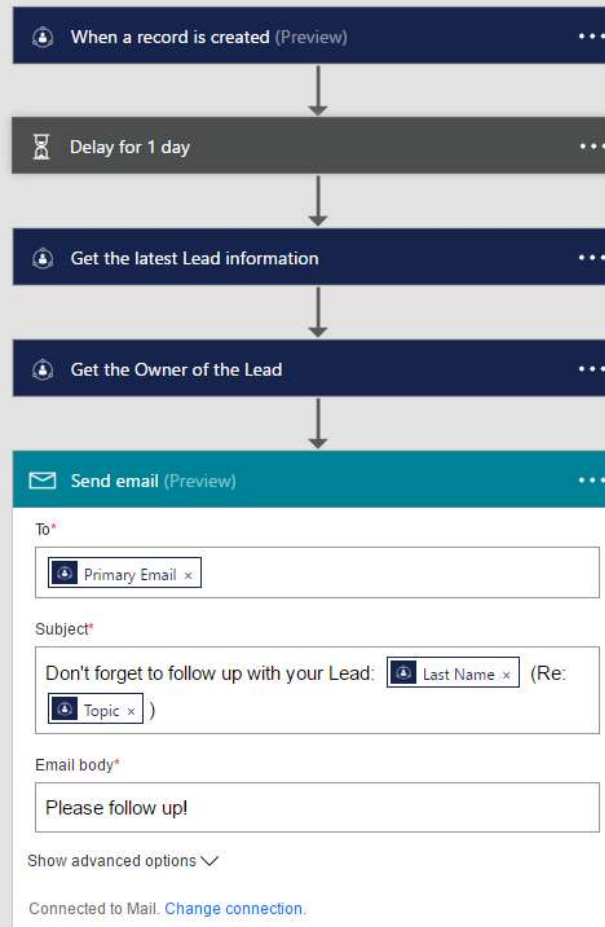




# Demo - Sales

*Problem:* Maintaining a high level of engagement with your sales leads improves your conversion rate, but it can be difficult to keep track of who to follow up with

# Sales

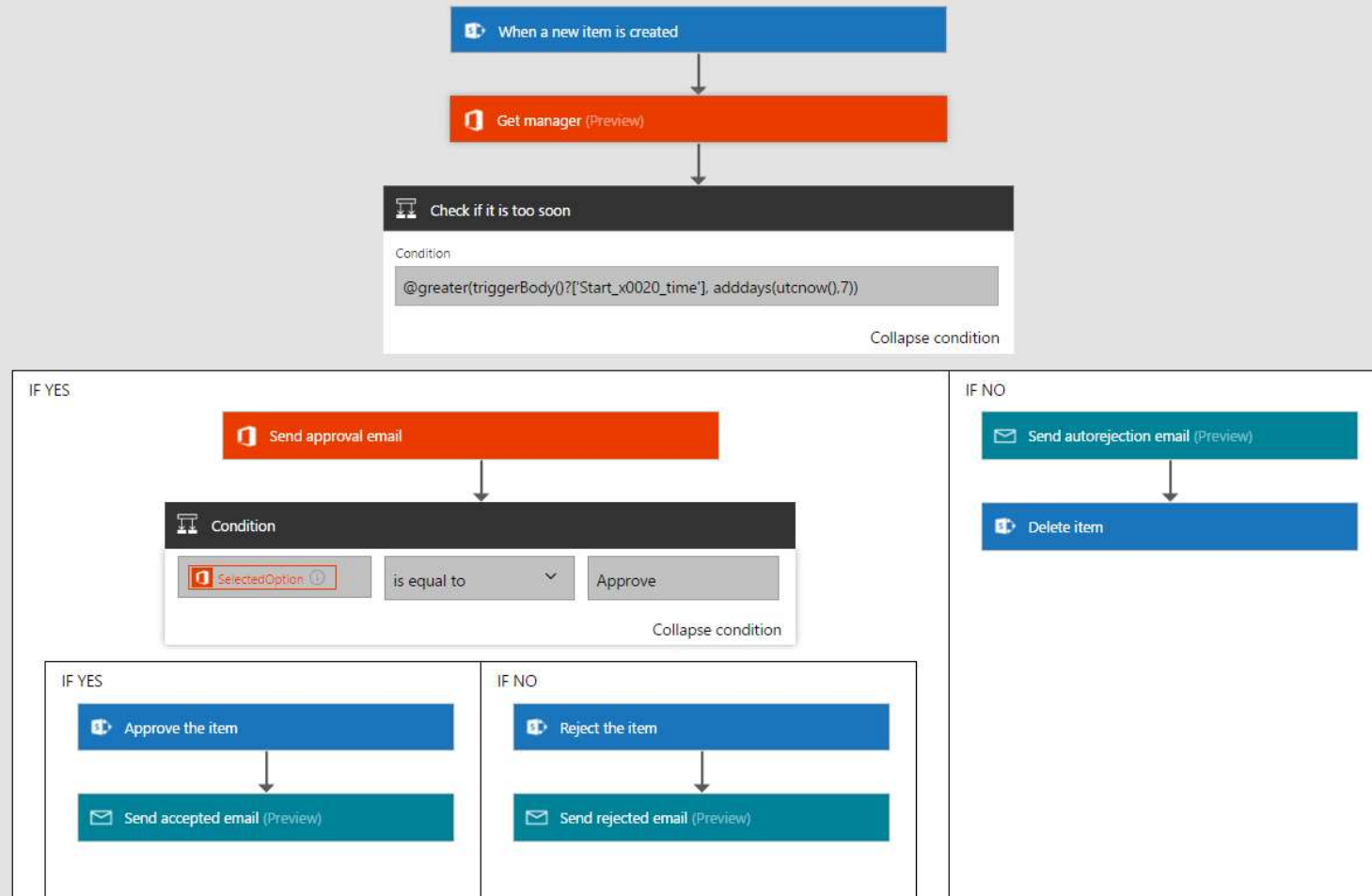




# Demo - HR

*Problem:* Your organization lacks a formal way of tracking vacation requests and ensuring that the manager approves the request

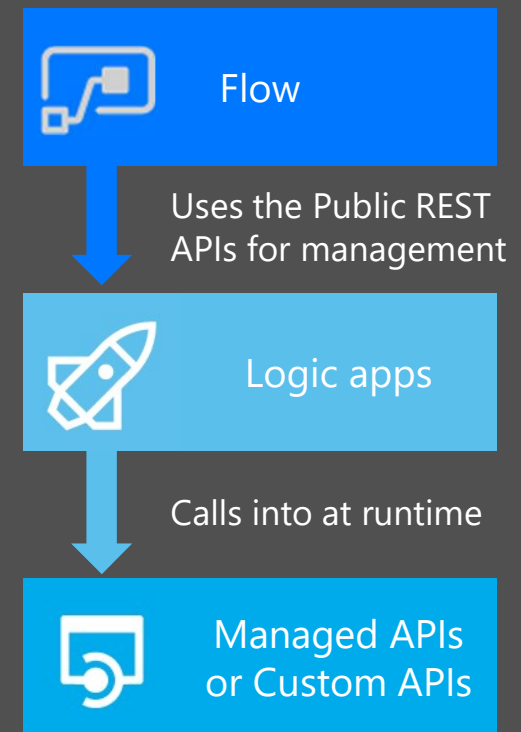




# Extensibility

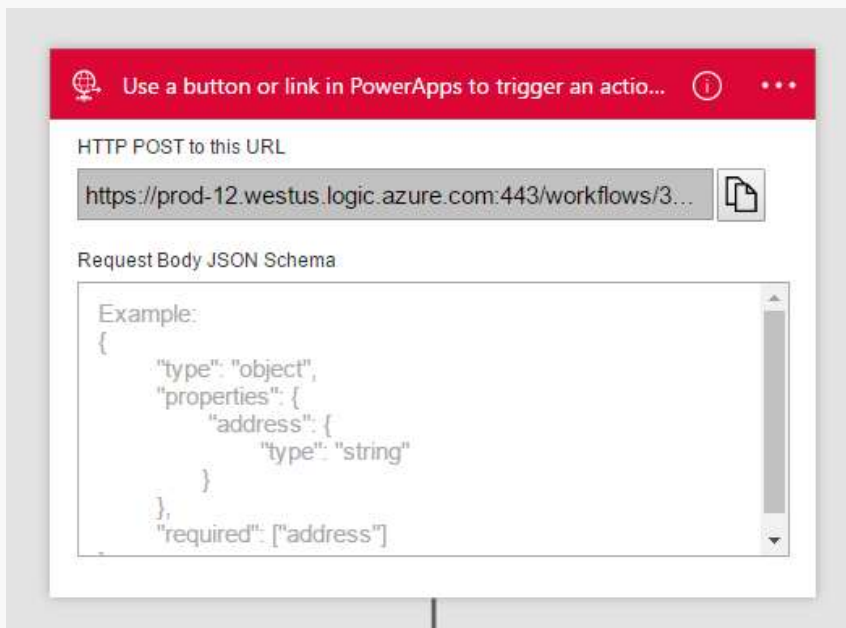
# Flow is powered by Logic apps

1. Built on top of Logic Apps: uses the public APIs and standard runtime
2. Due to #1:
  - a) we leverage the same visual designer / editor
  - b) Logic Apps can **always** do everything that Flow can do
  - c) *Pro tip*: the "advanced" mode for conditions uses the same language
3. Flow has additional UX / experiences to simplify experience for typical office worker



# Logic apps and Flow interaction

HTTP cards in both Logic apps and Flow let you call from one to another



Use a button or link in PowerApps to trigger an action...

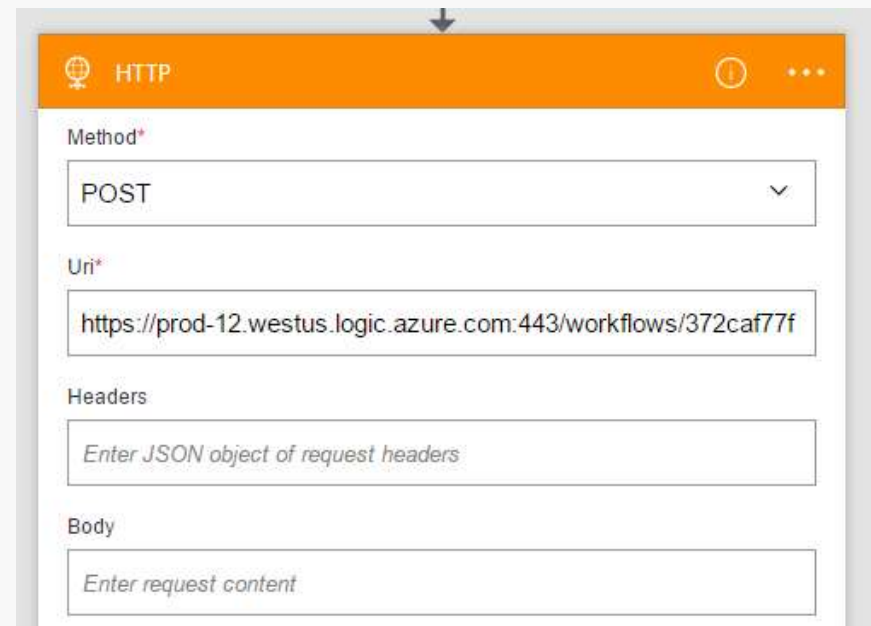
HTTP POST to this URL

<https://prod-12.westus.logic.azure.com:443/workflows/3...>

Request Body JSON Schema

Example:

```
{
  "type": "object",
  "properties": {
    "address": {
      "type": "string"
    }
  },
  "required": ["address"]
}
```



HTTP

Method\*

POST

Uri\*

<https://prod-12.westus.logic.azure.com:443/workflows/372caf77f>

Headers

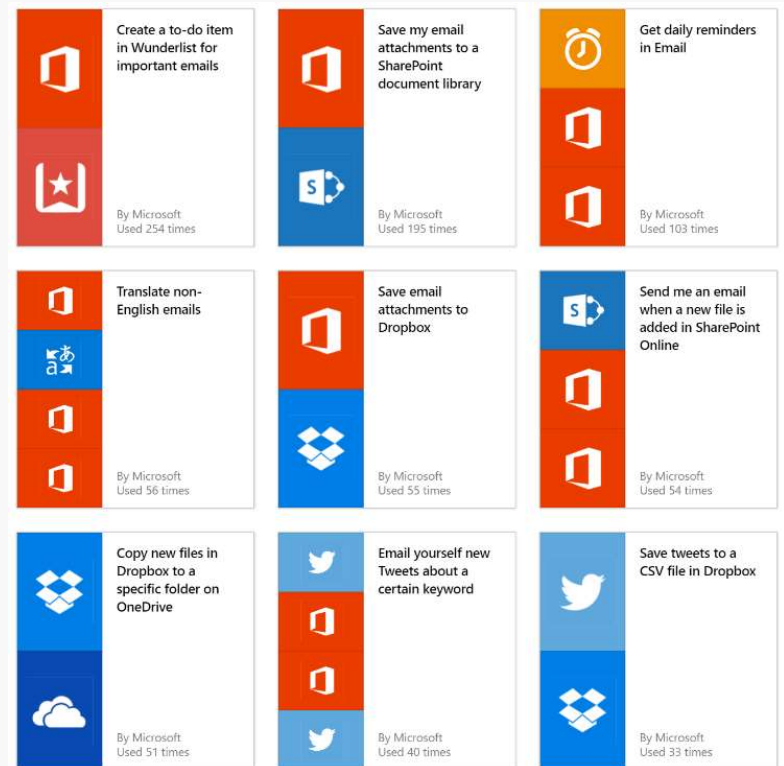
Enter JSON object of request headers

Body

Enter request content

# Building out templates for services

- You can build out templates for your own scenarios
- Today, you can share out these templates with anyone in the public
- Templates will be able to be locked down to a specific company by end of CY16



# Embed a view of Microsoft Flow in your app

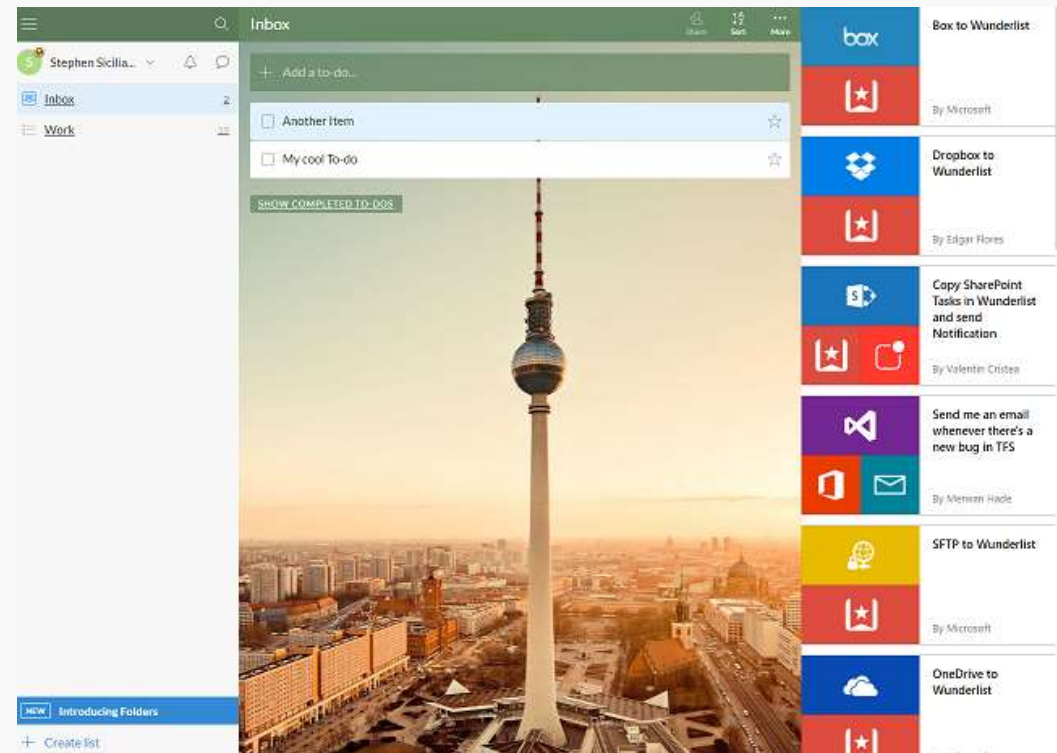
## Inside your Web site or application

<IFRAME> for hosting a tailored view of templates for your service

Can also log the user in and show their specific flows tied to your service

Read more here:

<https://flow.microsoft.com/en-us/documentation/embed-flow-dev/>





Looking forward

# PowerApps and Flow preview



**102,000+**  
creators

**42,000+**  
organizations

**137**  
countries

Available today for  
anyone to try at:

[flow.microsoft.com](https://flow.microsoft.com)



Microsoft Flow  
General  
Availability this  
quarter



# Admin center

## Environment administration

Lifecycle and management for all resources

Manages roles and role membership

List and monitor list of all resources in a given environment (\*)

## Data Loss Protection

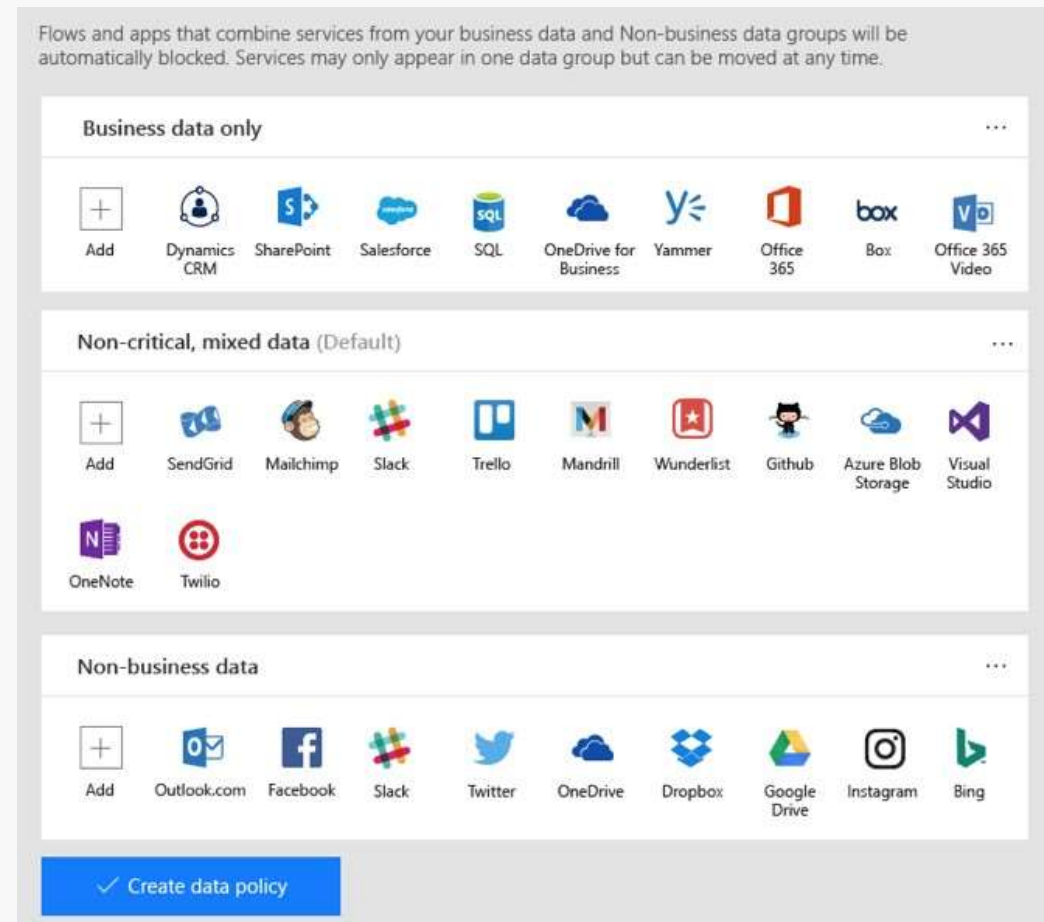
Provide IT-administrators with full control of how data flows within an organization

Set policies for classification of services

## Local agility, central control

Allow developers/teams control over their environment and still have centralized control

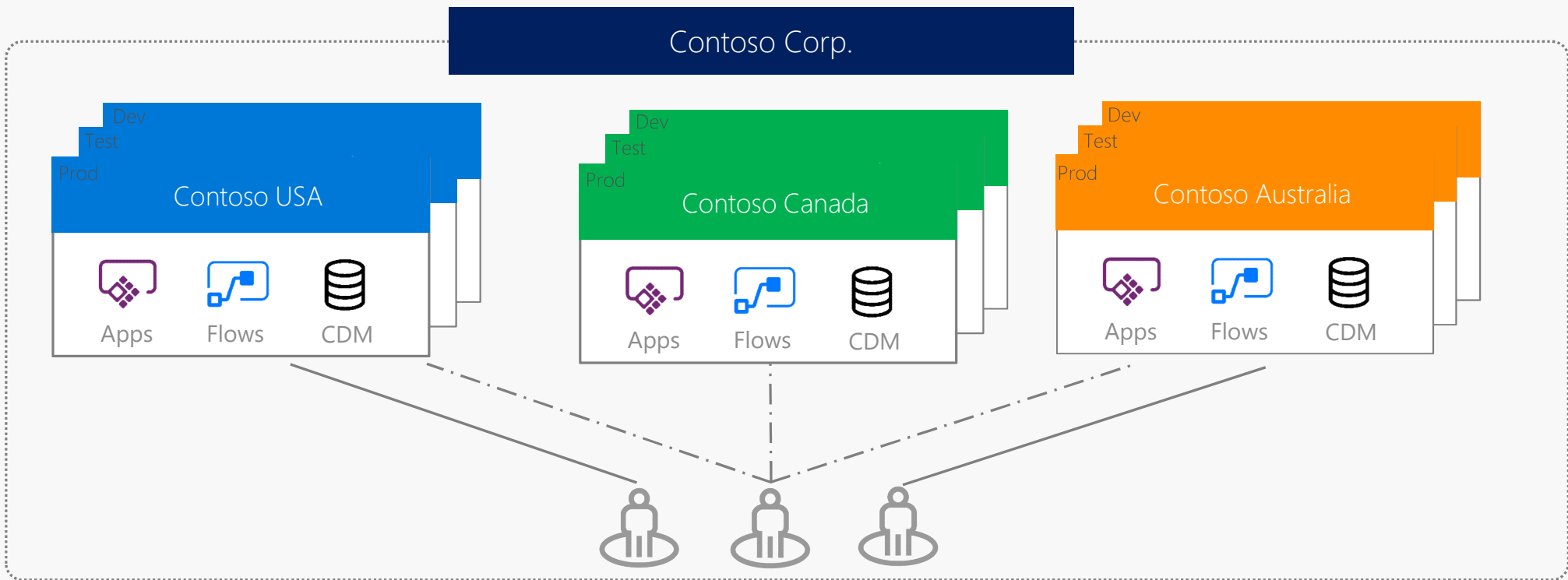
(\*) Capabilities planned for Post GA release



Roadmap is for general information purposes only and subject to change

# Deployment environments

Easily manage enterprise scale-out of applications and data.  
Move solutions across environments with packages.



Roadmap is for general information purposes only and subject to change



# Microsoft Flow Sharing and Collaboration

## Co-authoring

Many authors can edit a flow, not just a single owner

If the original author leaves the company the flow continues to function

## Publish to AppSource

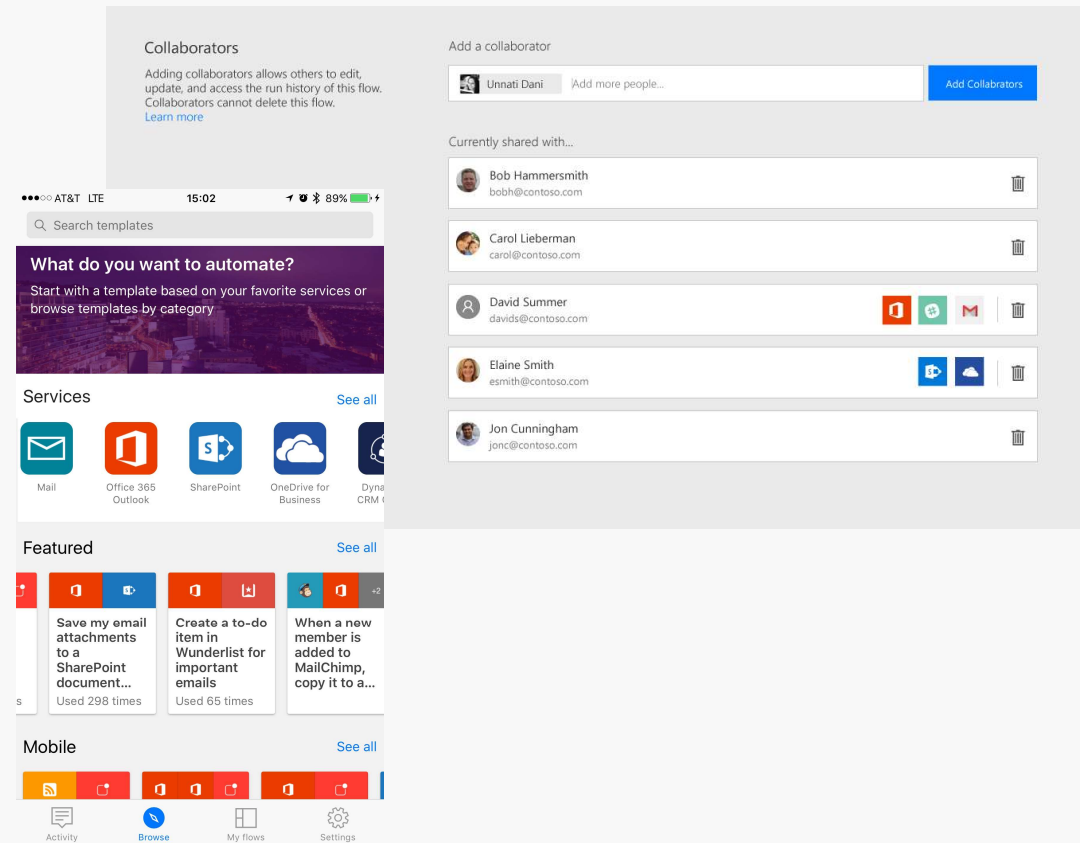
Make flows available to others inside of an organization for consumption

## Creation from Mobile

Develop and co-author on flows right from the Microsoft Flow app for iOS or Android

## Enhanced Flow mobile integration

Roadmap is for general information purposes only and subject to change



# Roadmap



## Q3 Calendar 2016

- Android Mobile App
- On-premise data Gateway
- In-context in SharePoint Online
- Flow SDK for Embedding
- Advanced control-flow logic
- Microsoft Common Data Model support



## Q4 Calendar 2016

- General availability, 42 languages, 7 geographies
- AppSource integration
- In-context in Dynamics 365
- Leverage device signals (e.g. Location)
- Data Loss Protection Policies / Admin management
- Co-Authoring



## H1 Calendar 2017

- Sovereign cloud availability (Government Cloud, Germany Cloud)
- Seamless grow-up from Microsoft Flow to Azure Logic Apps
- ALM: Move solutions across environments
- Azure functions integration

# How to get Flow?

## Flow Free

Anyone can sign up for free with their personal, work or school email

750 flow runs per month included

Limited to connect to "standard" services

No on-premises connectivity

(Post-GA) No co-authoring or sharing within an organization

No SLA

## Flow for Office 365 Flow for Dynamics 365

Included for free with most\* Office 365 and Dynamics 365 application SKUs

2,000 flow runs per month included

Limited to connect to "standard" services

On-premises connectivity to Office, Dynamics services\*

(Post-GA) Includes co-authoring or sharing within an organization

## Flow Plan 1

Can be purchased by an individual or an admin  
90 free trial available  
Also included with Dynamics 365 Plans 1 and 2 and PowerApps Plans 1 and 2

4,500 flow runs per month included

Full "premium" connectivity to cloud and on-premises

(Post-GA) Includes co-authoring or sharing within an organization

No governance or management features

## Flow Plan 2

15,000 flow runs per month included

Full "premium" connectivity to cloud and on-premises

(Post-GA) Includes co-authoring or sharing within an organization

Full governance and management features

# Flow runs

## Accruing at the tenant level

The flow runs usage quota is summed across all users up to the tenant

For example, if you have 1,000 users with Flow for Office 365 and 200 users with Flow Plan 2, the tenant can have:

$$1000 * 2000 + 15000 * 200 = 5M \text{ flow runs / month}$$

## Purchasing additional runs

The tenant can purchase in additional chunks of 50k runs / month

Get started at [flow.microsoft.com](https://flow.microsoft.com)

# Thank you!

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