Introduction to PowerApps and Flow



Agenda

- Getting Started with Microsoft Flow
- Building Flows from Scratch
- Building a Flow to Automate Approvals



What is Flow?

- Service for automating workflows across other services
 - Designed by Microsoft for business users more than developers
- What can you do with Flow?
 - Get notifications
 - Copy files
 - Collect data
 - Automate approvals



Creaing Flows

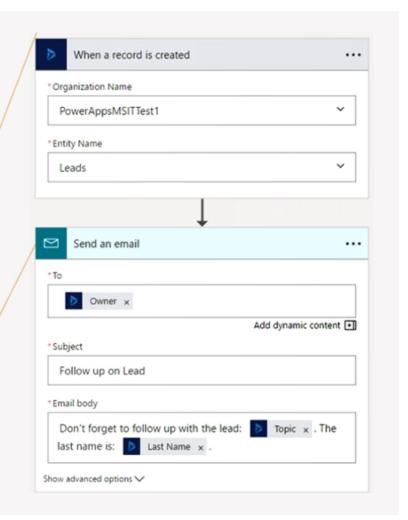
What makes up a Flow?

Example: Notification Flow

Trigger – the event that kicks off the flow:

- manually
- · on a schedule
- · on an event in the cloud

Actions – what the flow does Can use data from the trigger





Building Flows

- Use Microsoft Flow to create logic that performs one or more tasks when an event occurs in an app
 - For example, configure a button:
 - Creates an item in a SharePoint list
 - Sends an email
 - Meeting request is sent
 - A file is added to the cloud
- You can configure any control in an app to start the flow
 - Continues to run even if you close PowerApps
- Create Flows from scratch or from a template





Using Flow Templates

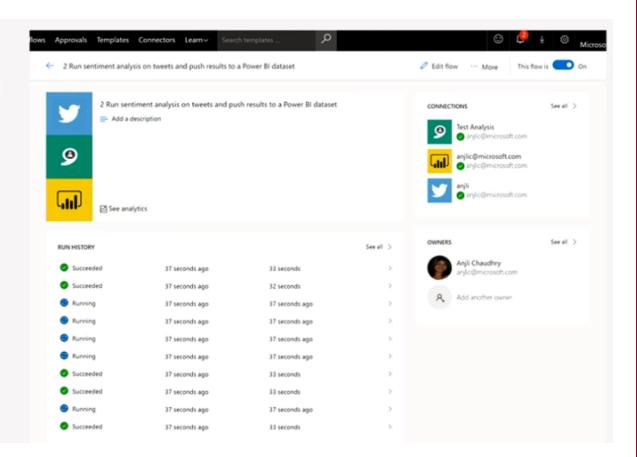




Managing Flows

Flow Details

- View and edit title and description
- · Turn flow on and off
- Clone it
- View run history





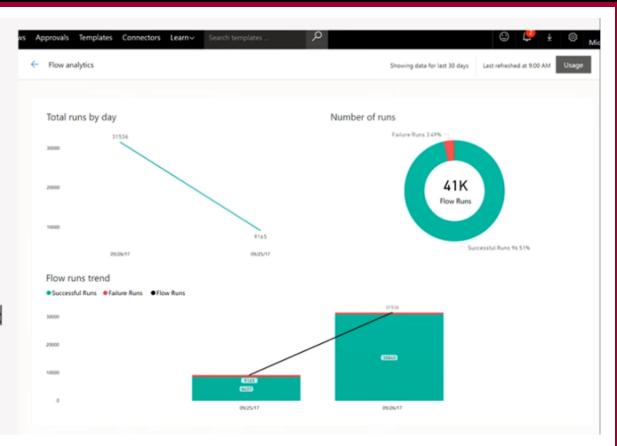
View Flows Details

Flow Details

- View and edit title and description
- · Turn flow on and off
- Clone it
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Flow Analytics

See number of runs and trends

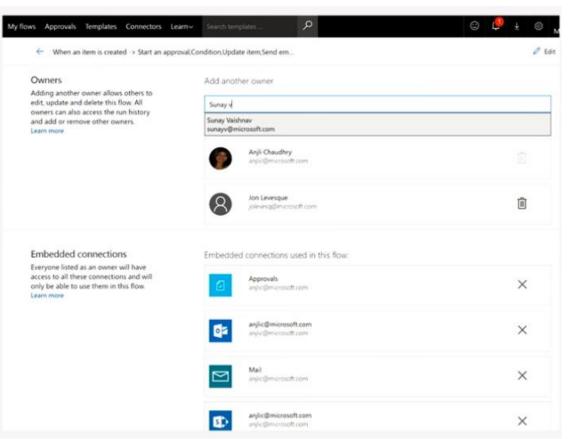




Collaborate with Co-workers

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





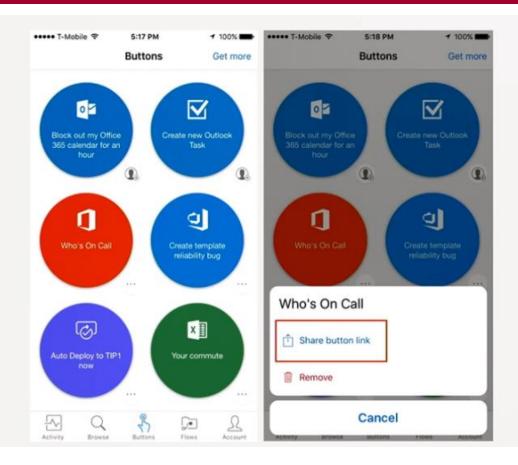
Creating and Sharing Flow Buttons

What are buttons?

- Easy way to trigger on demand flows with a push of a button!
- Buttons widget on phone and in the Flow app
- Physical buttons with Flic and Bttn

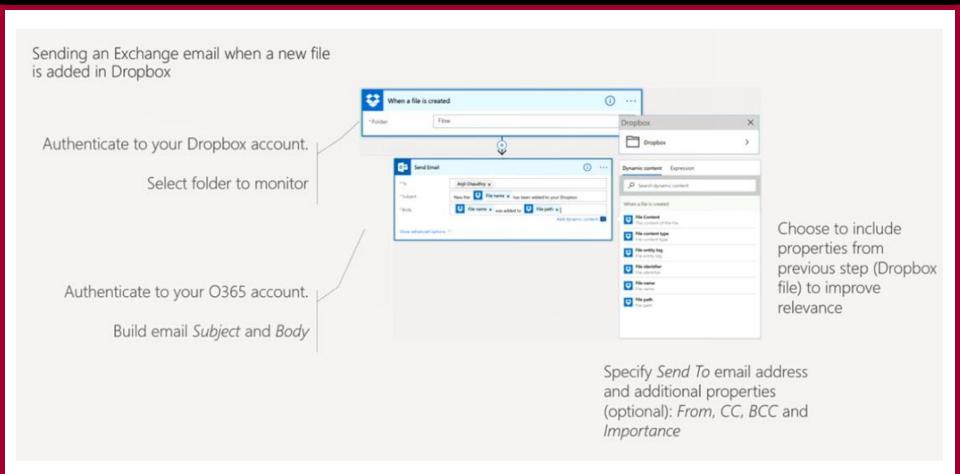
Sharing buttons

 Make buttons available to your co-workers to automate their tasks





Build a Flow from Scratch





Flow Visual Designer

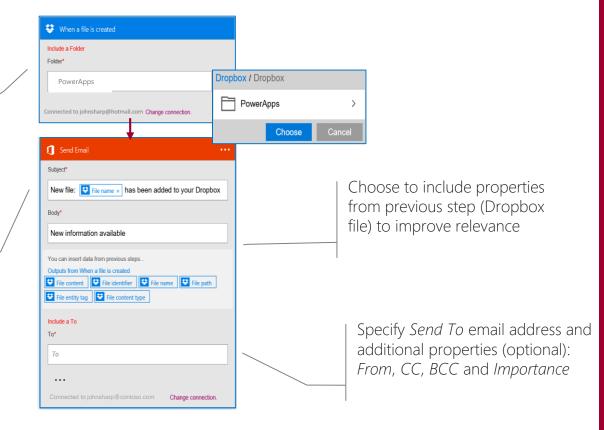
Sending an Exchange email when a new file is added in Dropbox

Authenticate to your Dropbox account.

Select folder to monitor

Authenticate to your O365 account.

Build email Subject and Body





Building Blocks of Flow

- Flows whether created from a template or from scratch:
 - Will contain building blocks that work together in certain ways (much like a flowchart)
- Building blocks of Flow:
 - Services sources and destinations of data in a flow
 - Triggers events that start a flow
 - Actions tasks accomplished by the flow
 - Conditions allow for branching if/then logic in a flow
 - Loops for iterating over actions more than once



Triggers

- Triggers are events that initiate a Flow
- First entry in a Flow
- Linked to Connections
 - Services
 - Data sources



Conditions, Actions and Loops

Conditions

- A condition is essentially your "If Statement".
 - If this happens do this or if that happens do something else.
 - Specify that a flow performs one or more tasks only if a particular condition is true.

Actions

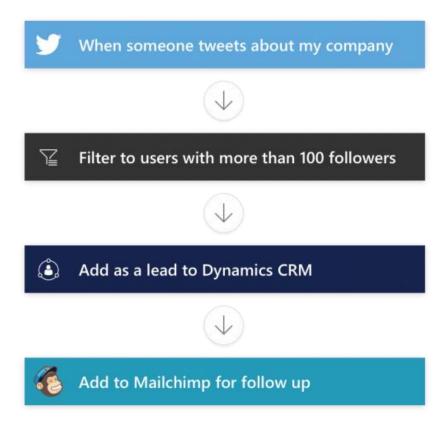
- An action is something that occurs as a result of the workflow.
- Add multiple actions and advanced options to a flow.

Loops

 Add sequences or instances where actions need to be repeated based on a condition



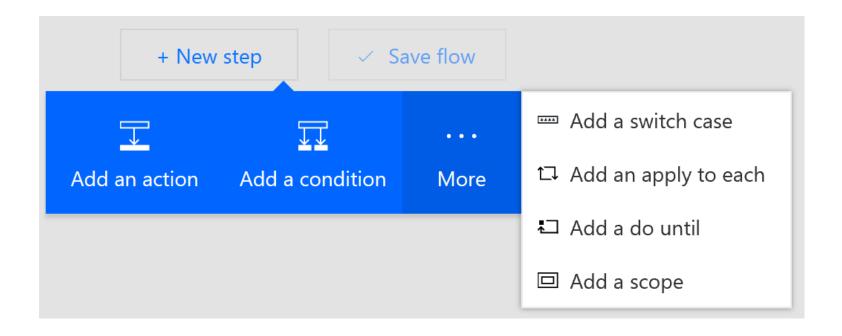
Looping Flow Example





Creating New Steps

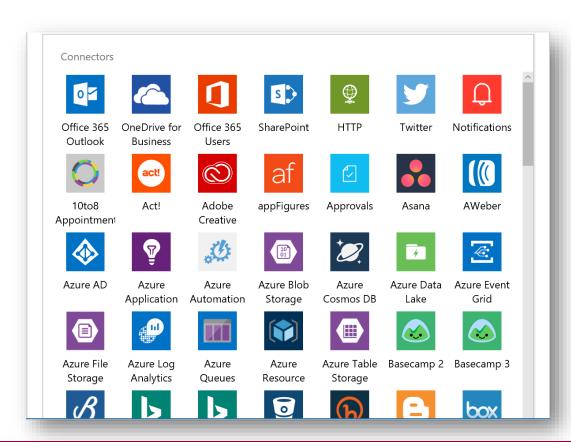
Action, Condition, More...





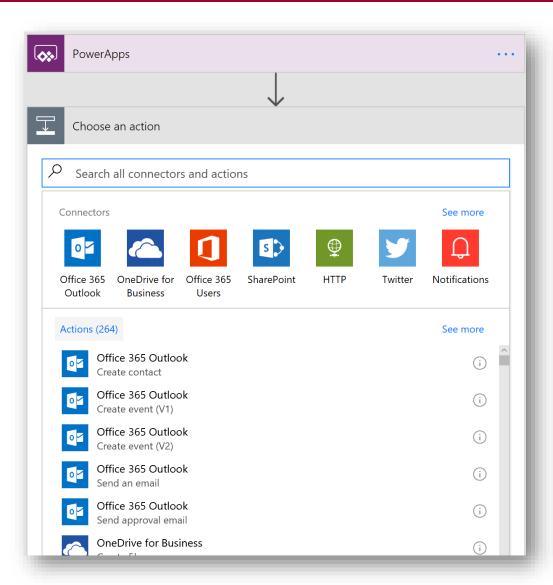
Connectors

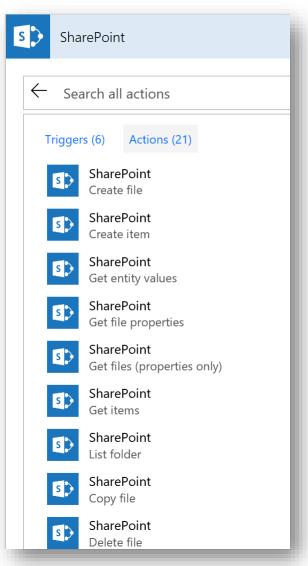
- Connect to services
- Surfaces Actions, Triggers
- Can manage ahead of time or when adding an action





Actions





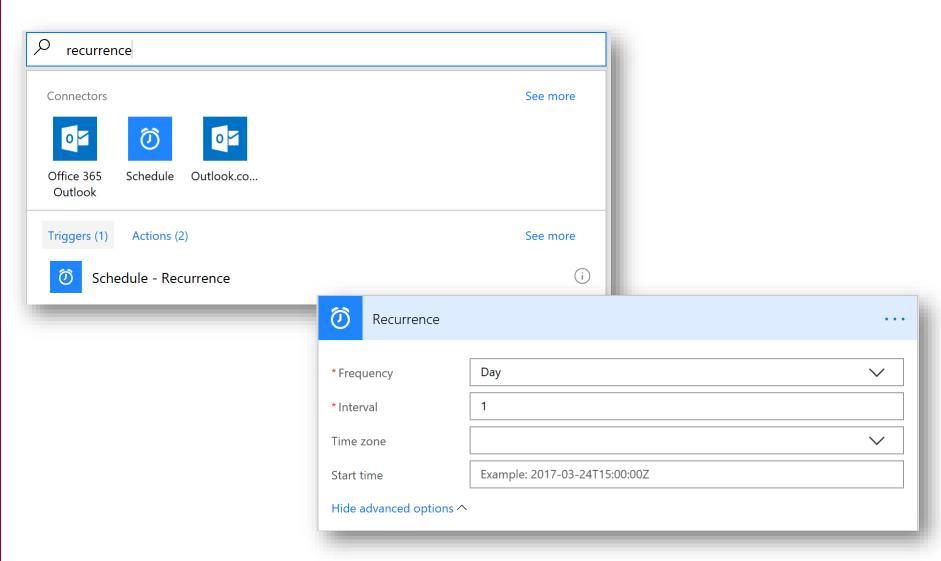


Advanced Options

- Customize a flow by adding one or more advanced options and multiple actions for the same trigger.
 - For example, add an advanced option that sends an email message as high priority.
 - In addition to sending mail when an item is added to a SharePoint list, create a file in Dropbox that contains the same information.

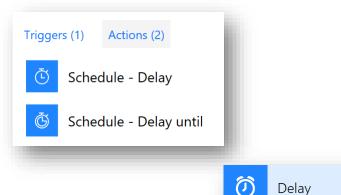


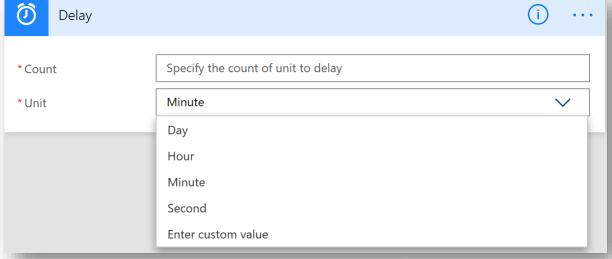
Recurring Flows

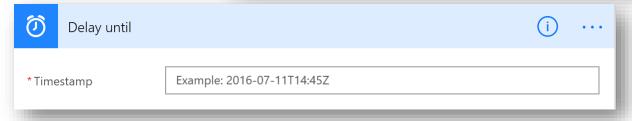




Delayed Flows



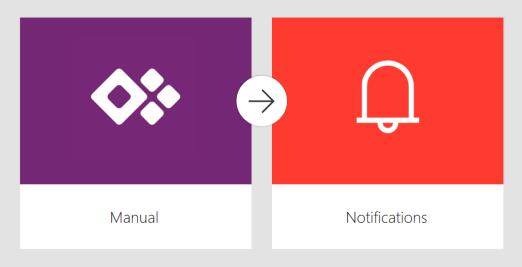






Push Notifications

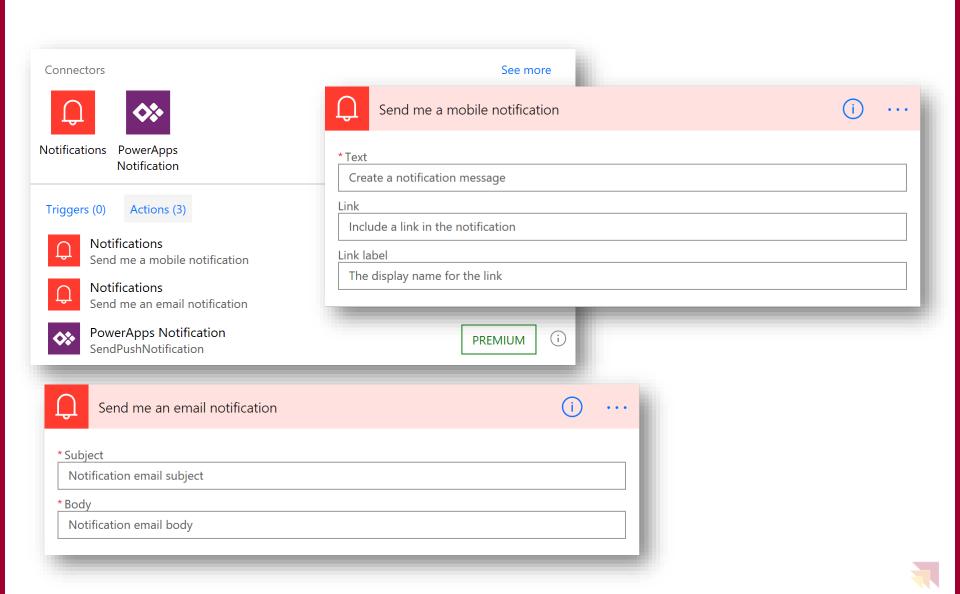




This flow sends a push notification to your Flow App through PowerApps, when triggered with a button tap. You will need an installation of the Flow App for this template.

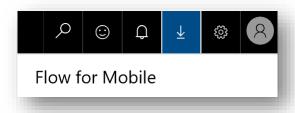


Notifications Connectors



Flow Mobile App

- Available for:
 - iOS
 - Android
 - Windows

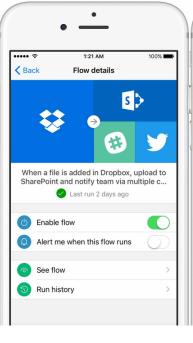


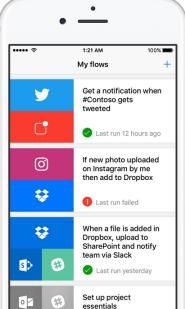
Create automated workflows between your favorite apps and services to get notifications, synchronize files, collect data, and more — all from the palm of your hand

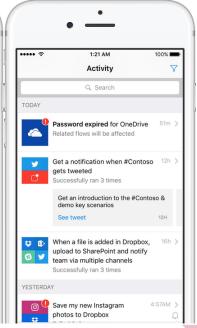












Flow Admin Center

Environment administration

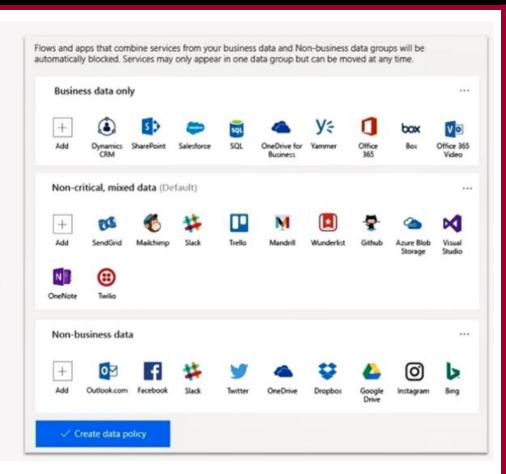
- Create and manage your organization's environments
- Lifecycle management of flows
- Manage roles and role membership
- View license and quota information

Data Loss Protection

- Control how data flows within your organization
- Set policies for classification of services

Local agility, central control

 Allow teams control over their environment and still have centralized control





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