# Integrating Salesforce, O365, & etc. using Microsoft PowerApps & Flow

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# Session Agenda

- Quick Intro
- Overview of Salesforce.com
- IFTTT
- Introduction to Microsoft Flow
- Powerapps
- Remaining Demos
- Resources

### **Jared Matfess**

Solution Architect with Slalom Consulting 10+ years in the IT Field



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# Overview of Salesforce.com (for an O365 crowd)

### What is Salesforce.com?

#### Cloud Software as a Service (SaaS)

- Sales Cloud
- Service Cloud
- Market Cloud
- Community Cloud
- Chatter
- Analytics
- Apps





# Sign up for Developer instance



http://developer.salesforce.com

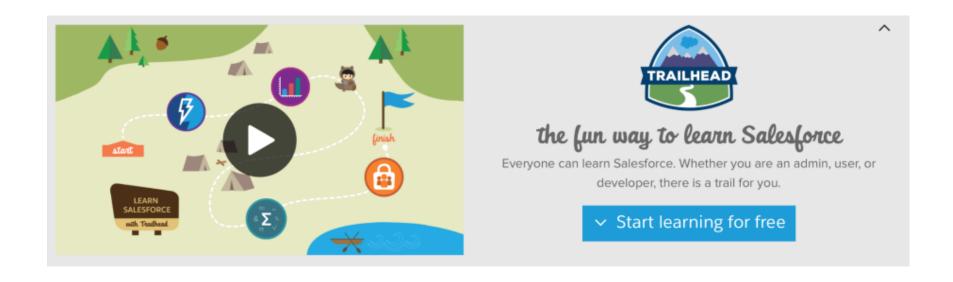


# Why Learn Salesforce.com?

- Very popular CRM solution that continues to grow market share
- Skills are very transferable from what you've learned from SharePoint
- Developers you can build HTML/JavaScript based solutions
- Become the SME for integrating Salesforce.com & SharePoint



# Trailhead for Additional Learning



https://developer.salesforce.com/trailhead

# Salesforce Objects

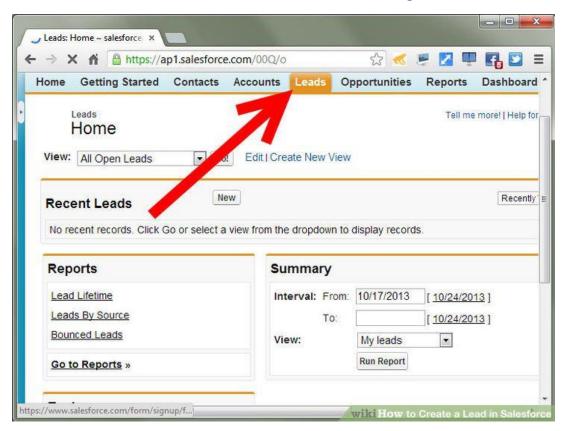
- Similar to SharePoint Lists
  - Fields / Columns
- Pages are "Visual Force Pages"
  - Combination of HTML & Apex Code
- Salesforce1 Mobile App
  - "Integrate your custom apps" into this phone app





# Tonight's Featured Salesforce Object

■ The Lead ②





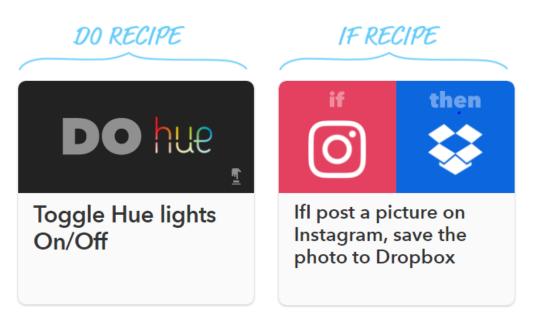
### Quick demo of Salesforce





# IFTTT (If This Then That)

What is IFTTT gives you creative control over the products and apps you love.



#### **IF Recipes**

IF Recipes run automatically in the background. Create powerful connections with one simple statement – if this then that.



If I post a picture on Instagram, save the photo to Dropbox

#### DO Recipes

DO Recipes run with just a tap and enable you to create your own personalized Button, Camera, and Notepad. The DO apps are available for iOS and Android.







# Quick Demo of IFTTT



# Intro to Microsoft Flow

#### Microsoft Flow

An enterprise software service for **business users** to work smarter by **automating processes** across applications and services



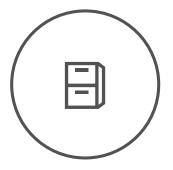
**Get notifications** 

Get an alert when a file or folder is updated



Synchronize files

Connect your folders to keep your data current



**Organize data** 

Collect and organize business data automatically



**Automate approvals** 

Streamline approvals with instant alerts and more



















































# Connect to the systems you're already using

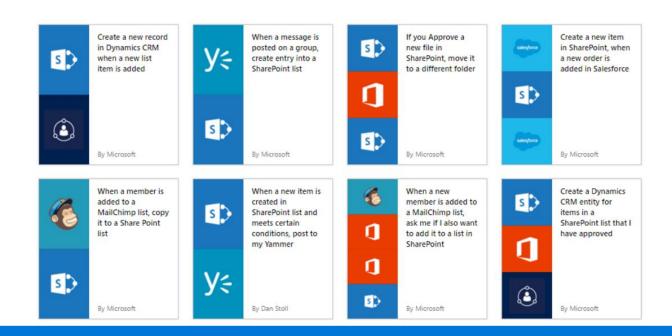
Quickly generate and customize apps based on Excel files, SharePoint Online lists, Salesforce records and more. You can even connect custom APIs.

Your apps will be able to fully interact with underlying sources and will respect the permissions you've already established in them.



### Microsoft Flow

# Start with dozens of premade SharePoint flows <a href="https://flow.microsoft.com">https://flow.microsoft.com</a>





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

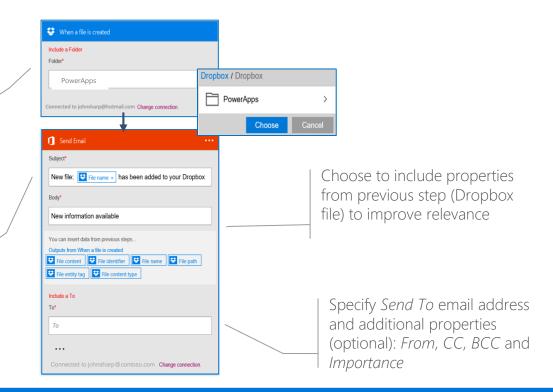
Sending an Exchange email when a new file is added in Dropbox

Authenticate to your Dropbox account.

Select folder to monitor

Authenticate to your O365 account.

Build email Subject and Body





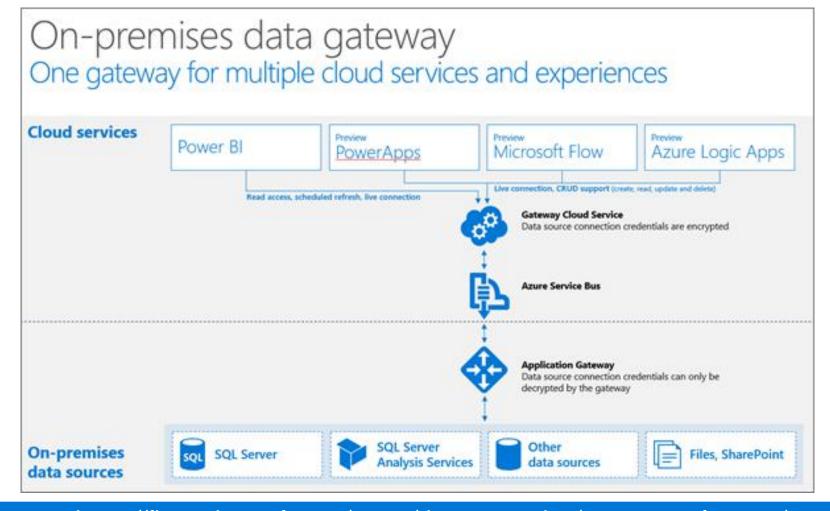
# So what's Flow? (in a couple of bullet points)

- No-code "Data orchestration" service
- Allows you to connect services with clicks not code
- Supports both Cloud & On-Premises!

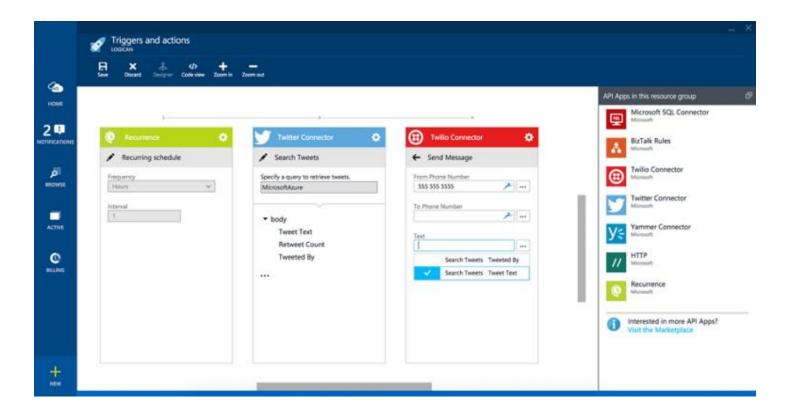
### Flow can connect to On-Premises

- Requires Microsoft's "On-Premises Data Gateway"
- Gateway Server must "always be connected to the Internet"
- At this time SQL is the only supported target endpoint
  - Roadmap includes SharePoint
- Might be worth discussing if the database should be moved to Azure





# What about Azure Logic Apps?





## Value Proposition for Microsoft Flow w/Salesforce

- Salesforce.com subscription licenses are expensive
- Most organizations only purchase subscription for sales personnel
- Supporting business functions & personnel can help to add values to sales cycle while not having to incur the additional expense
- Flow will bridge the gap between consumer systems, other cloud services, etc.



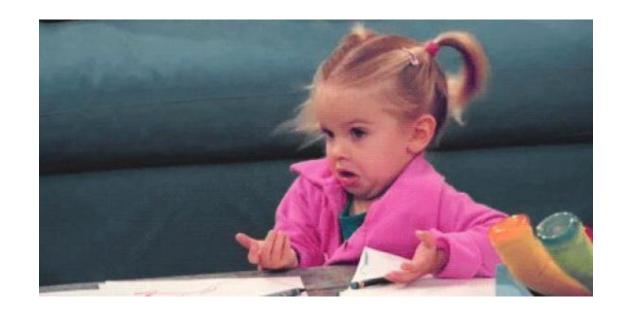
# Example: Conference

- Slalom Atlanta sponsors a booth at SharePoint Saturday event
- Lots of interesting conversations with potential recruits
- Team captures a few potential consulting leads but nobody has access to CRM!





# What would you do?



### Flow it!

### Create Salesforce Leads from a Excel table



It's now very easy to create Salesforce leads. Whenever you add a new row to the Excel Table you select, a lead will be created in Salesforce (and cleaned up from the Table). You need to select a sheet that has columns for: First Name, Last Name, Company, Phone and Email.



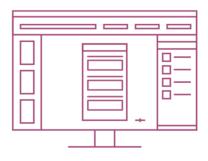


# **Power Apps**

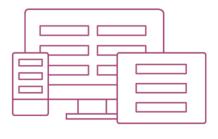
# Microsoft PowerApps is a service for creating and using custom business apps across platforms



Connect to existing systems and data sources

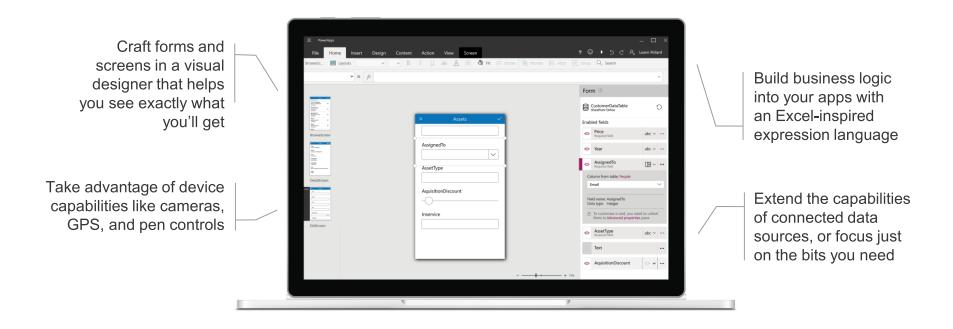


Build apps, forms, and workflows without writing code

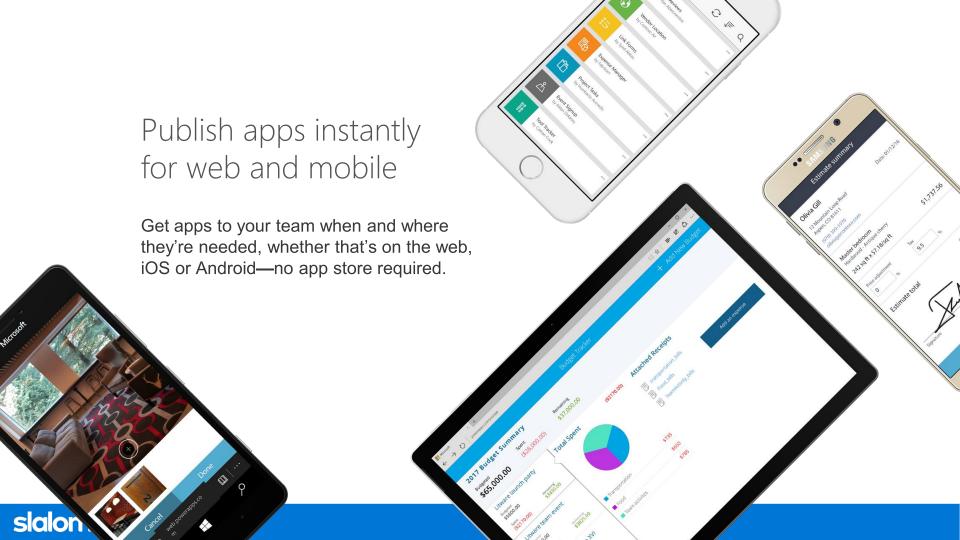


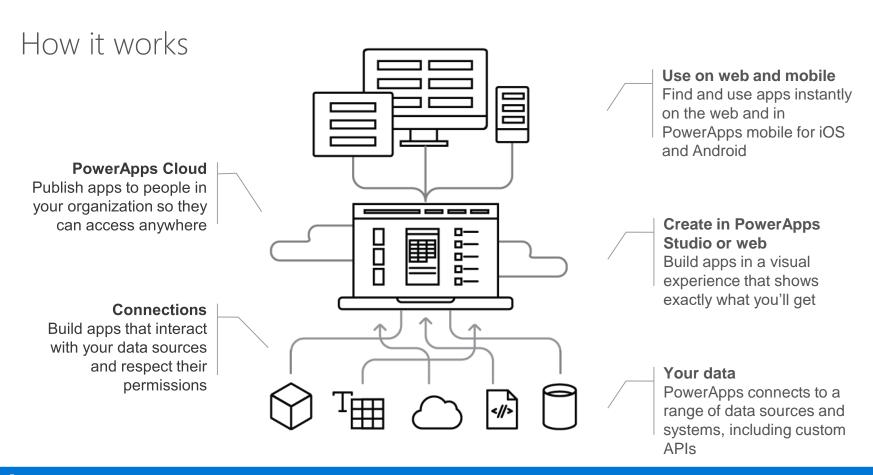
Publish apps instantly for web and mobile

### Build useful apps without writing code



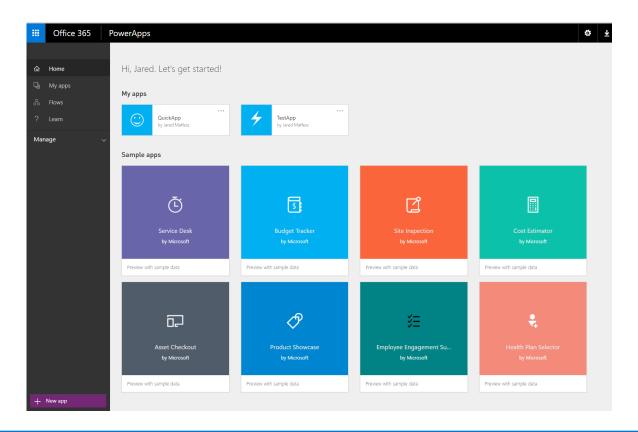






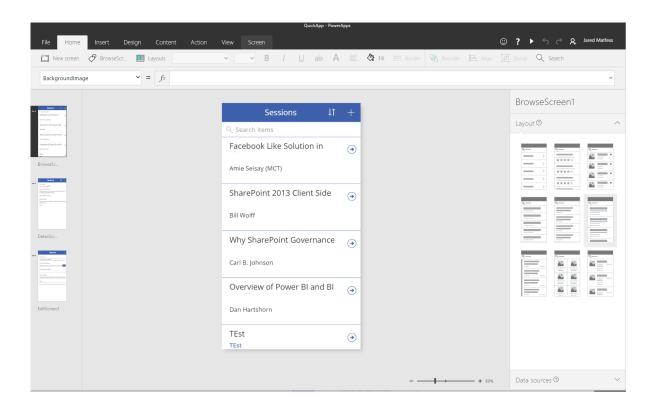


# Part of O365 App Launcher





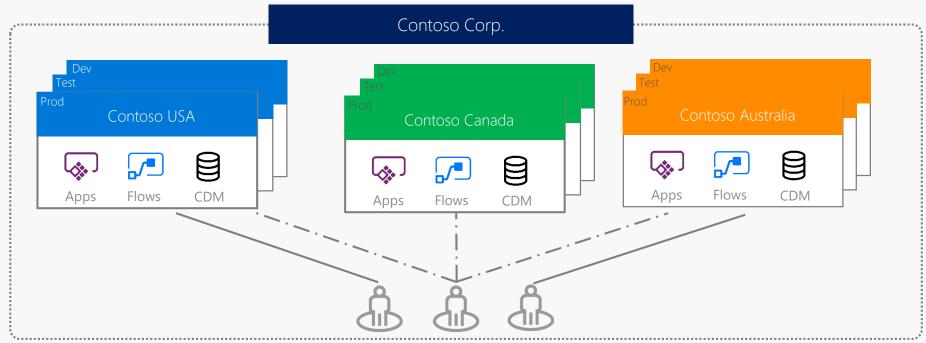
## PowerApps Authoring





# 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

## 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 (\*)

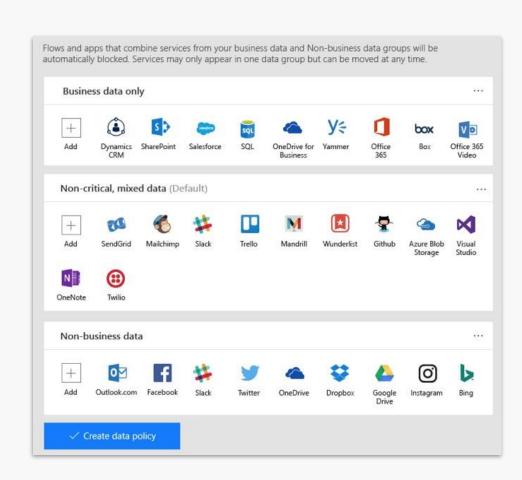
#### **Data Loss Protection**

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

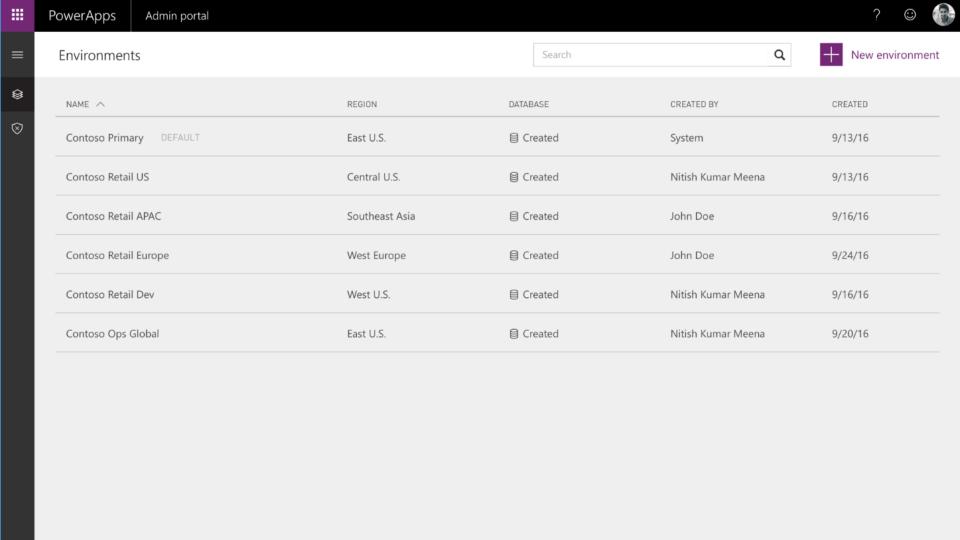
Set policies for classification of services

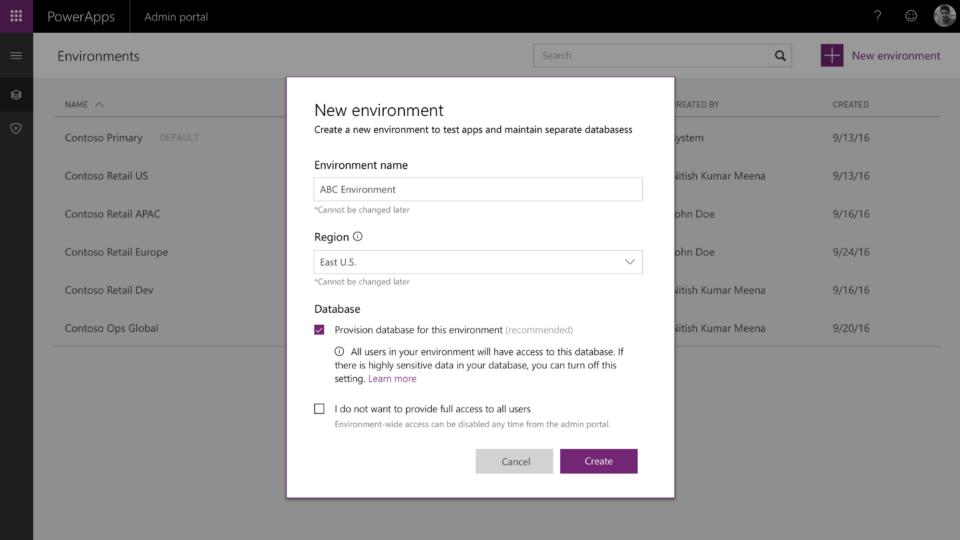
### Local agility, central control

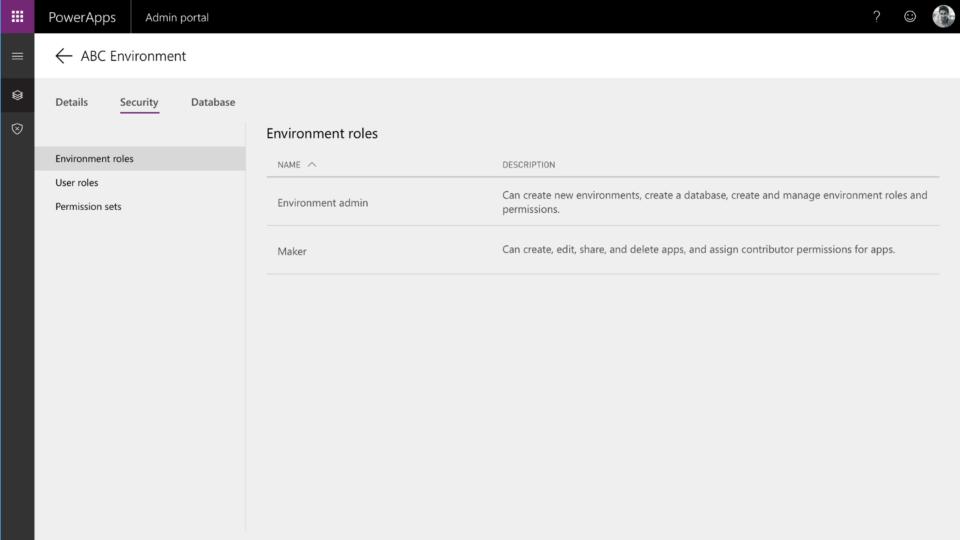
Allow developers/teams control over their environment and still have centralized control (\*) Capabilities planned for Post GA release

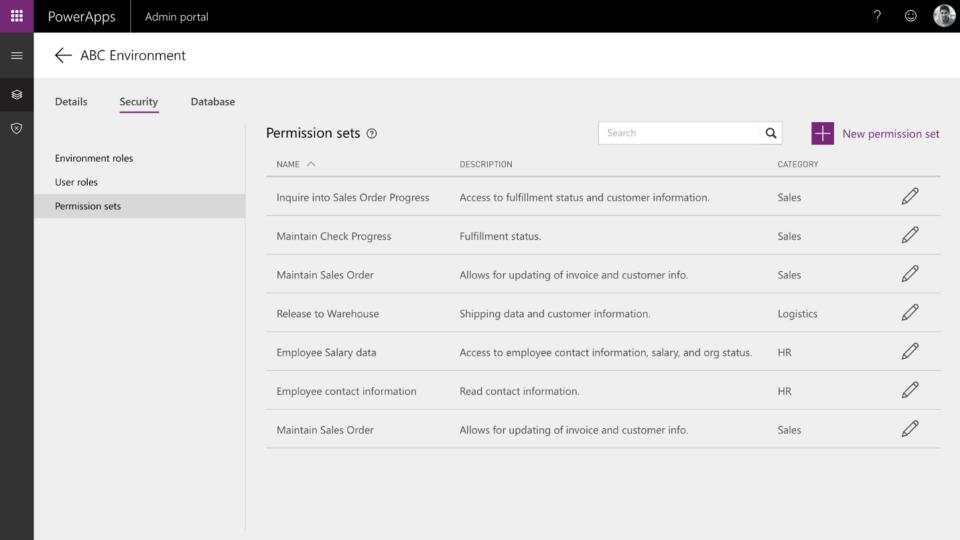


Roadmap is for general information purposes only and subject to change









# AppSource Integration

### **Organization gallery**

Create and distribute apps within your company

Easy sharing to specific audiences

Role-based access control

### **Get apps from partners**

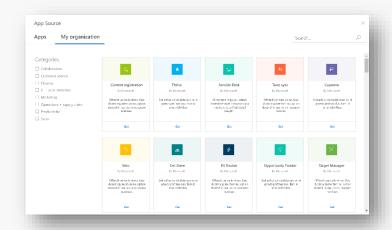
Deploy apps, templates and components provided by partners

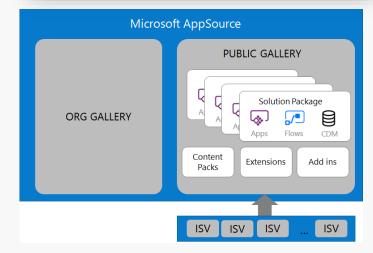
Solution packages allow moving apps and data across tenants

### **Avoid overloading users**

Users pull applications they need

Admins can push key applications to users





# PowerApps packaging

Extending Office 365 and Dynamics 365

### PowerApps and MSFT Flow for Office 365 and Dynamics 365

- Included with O365 & D365 workloads
- PowerApps & MSFT Flow capabilities
- Create & run within the context of O365 & D365 data sources

#### Quotas (per user; pooled tenant-wide):

• 2,000 flow runs per month

For business users Run any app using CDM

#### **PowerApps P1**

- PowerApps & MSFT Flow capabilities
- Access to Common Data Model and premium connectors
- Run any app or flow & build against any existing data source

#### Quotas (per user; pooled tenant-wide):

- 4,500 flow runs per month
- 20MB Data Storage
- 2GB File Storage

For creators and IT admins Full creation & admin capabilities

#### PowerApps P2

Included in full D365 Plans

Includes everything in P1, plus

- Create any app or flow
- Model your business data and create custom entities (CDM)
- Create/manage environments and databases
- Set policy and view usage

#### Quotas (per user; pooled tenant-wide):

- 15,000 flow runs per month
- 200 MB Data Storage
- 20 GB File Storage per user

Additional flow runs, Data Storage, and File Storage may be purchased as needed

# PowerApps Preview – key features shipped

In addition to numerous bug fixes, usability and perf improvements



### May - Sep 2016

$\bigcirc$	Register	and	use	custom	APIs

- O Android app
- O App from Data improvements
- O New samples and templates
- O Enabled single sign-on for AAD based services
- O Support for look ups
- O No record limit for working with data
- O Support for on-premises SQL Server
- O SharePoint Online modern list integration
- O Many new connectors

- O Support for on-premises SharePoint lists
- O PowerApps Studio in a web browser
- O Preview of Common Data Model
- O Push notifications support for Android
- O App templates based on Common Data Model
  - O Bar code scanner
- O Favorite apps and native gestures
- O Dynamics AX connector
- O Samples connected to Office 365, Salesforce, Wunderlist, etc.

# PowerApps roadmap - highlights



### Q4 Calendar 2016

- O General available, 7 regions, 42 languages
- O AppSource for company wide app sharing
- O Deployment Environments
- O Admin center
- O Data flow policies
- O Re-usable, dynamic forms support (preview)
- O Windows Phone support

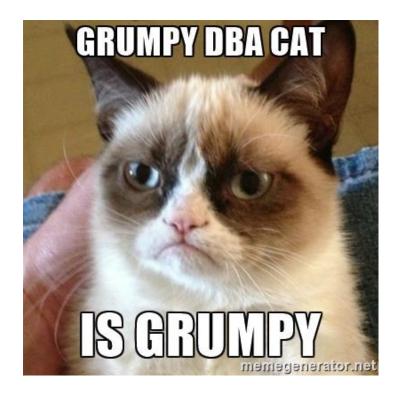


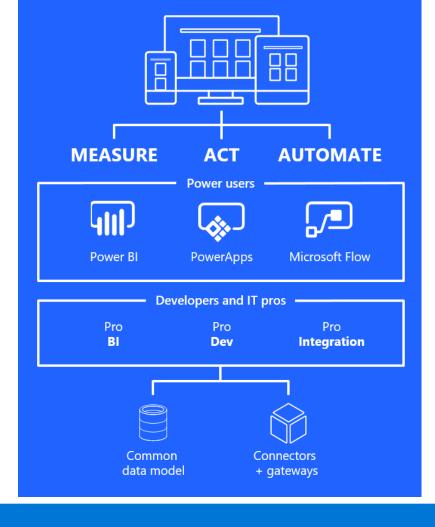
### H1 Calendar 2017

- O Power BI integration across the platform
- O Solution packages
- O Embedded, in-context SharePoint Online
- O Pro-dev control extensibility
- O Re-usable, dynamic business process & logic
- O Common Data Platform Office 365 data sync
- O Enhanced mobile Flow integration
- O Extended Common Data Platform security model
- O Additional embedded experiences
- O Sovereign cloud deployments

# **Common Data Model**

# So how about creating me a new table in your...





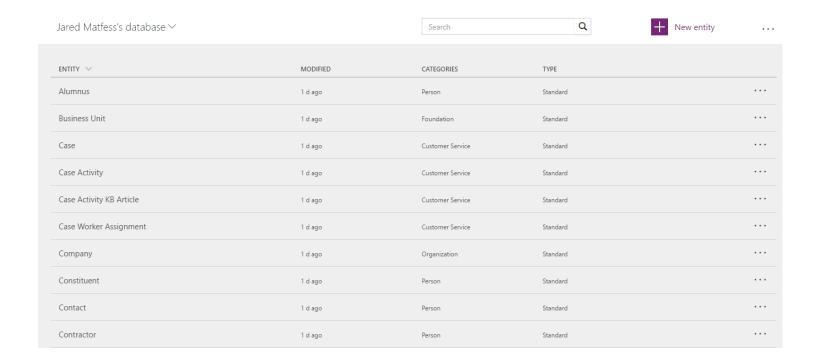


### So what is it?

- Place to store data outside of major systems (Salesforce, SharePoint, etc.)
- Rich data types: Entities support rich data types including business abstractions like Address, Email, Currency, Auto-numbering (for invoices, orders etc.) etc. Modern types such as images, geographic location, Phone, Website URL will enable building modern, mobile applications on enterprise data. These data types are implemented using the latest SQL Server data types
- System attributes (created, modified, etc.)
- Data encryption at rest

https://powerapps.microsoft.com/en-us/blog/announcing-powerapps-common-data-model/

### Let's take a look...





### How to get PowerApps and Flow?

Flow Free

Flow for Office 365 Flow for Dynamics 365 PowerApps for Office 365 PowerApps for Dynamics 365

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

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

Very low # of 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

Low # of flow runs per month included

Limited to connect to "standard" services

On-premises connectivity to Office, Dynamics services\*

(Post-GA) Includes coauthoring or sharing within an organization Limited to connect to "standard" services

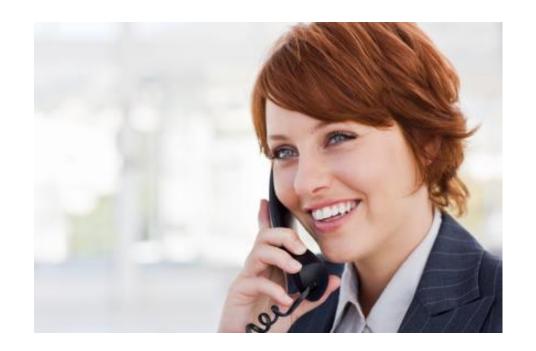
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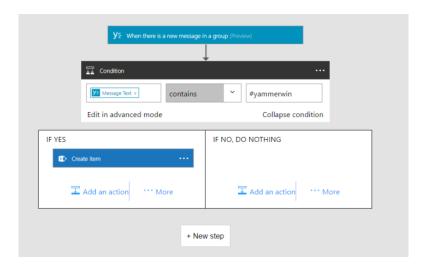


# A Quick Conversation about Yammer

# **Yammer** – it's not just what your sales person does



### #YammerWin

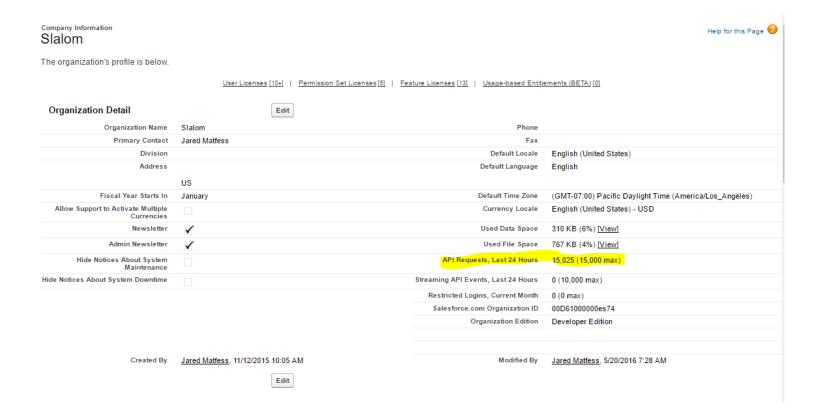


 https://jaredmatfess.wordpress.com/2016/08/18/leveraging-microsoft-flow-to-captureyammerwins-for-knowledge-management/



# Final Thoughts & Resources

### Limits are awesome





### Flow, PowerApps, & Governance

- Companies definitely need to identify "who" will build these solutions
- The ease of development does not negate the need to have data discussions
- Be aware of API limitations on target systems (Salesforce.com) is a great example
- Consider developing "naming conventions" for Flows (Logic Apps)

# Final Thoughts

- PowerApps the InfoPath replacement?
- Flow the SharePoint Designer workflow replacement?
- How much will it cost? Public Preview vs Final Service?
- Azure Logics Apps vs Microsoft Flows?



### Resources

- https://flow.microsoft.com/en-us/documentation/gateway-reference/
- http://powerusers.microsoft.com
- http://powerapps.microsoft.com
- http://flow.microsoft.com
- https://www.youtube.com/watch?v=IWGM3uNkFDQ



# slalom

slalom.com