Quick and Easy Business Apps with Power Platform

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Get ready to be what's next.

No need to take pictures!
This deck will be available online at:
http://jshoq.me/spsens2019thanks

Jared Shockley – http://jaredontech.com

Senior Site Reliability Engineer

Run and improve internal/external services used by developers world-wide (Azure DevOps, 1ES)

Prior Experience

Service Owner/Sr. Svc. Eng. SharePoint - MSIT

Director of IT Services, Medical Practice

Service Owner, Microsoft IT – Finance IT

Primary Experience Areas

SharePoint and Office 365

Azure Cloud Services

IT Service Management, Governance, Compliance

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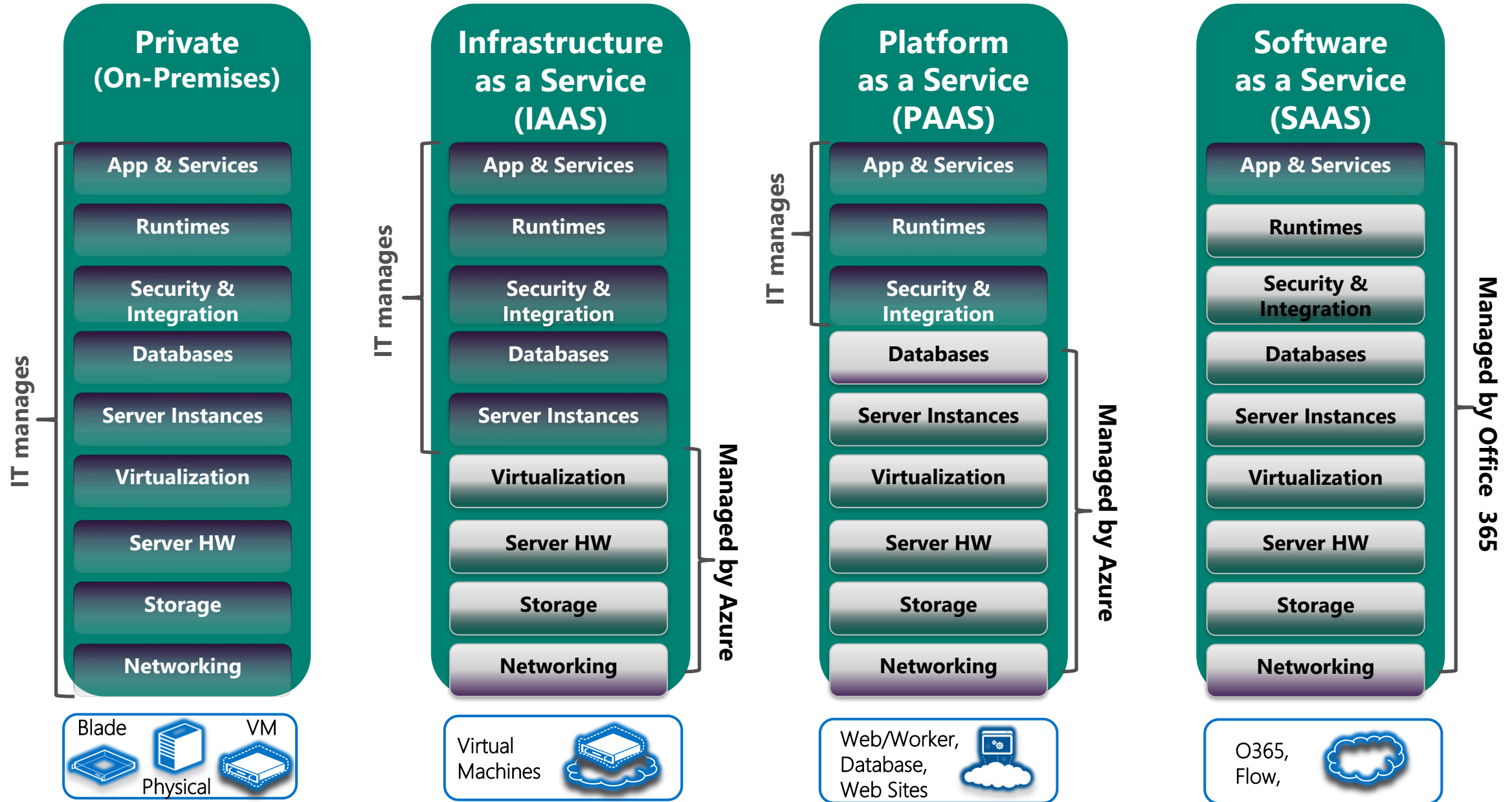# Agenda

How to Leverage Cloud Services

What are no-code apps?

Microsoft Flow

PowerApps

Azure Logic Apps

How to Leverage Cloud Services

Private (On-Premises)	Infrastructure as a Service (IAAS)	Platform as a Service (PAAS)	Software as a Service (SAAS)
App & Services	App & Services	App & Services	App & Services
Runtimes	Runtimes	Runtimes	Runtimes
Security & Integration	Security & Integration	Security & Integration	Security & Integration
Databases	Databases	Databases	Databases
Server Instances	Server Instances	Server Instances	Server Instances
Virtualization	Virtualization	Virtualization	Virtualization
Server HW	Server HW	Server HW	Server HW
Storage	Storage	Storage	Storage
Networking	Networking	Networking	Networking

IT manages (Private)

IT manages (IAAS) — App & Services, Runtimes, Security & Integration, Databases, Server Instances

Managed by Azure (IAAS) — Virtualization, Server HW, Storage, Networking

IT manages (PAAS) — App & Services, Runtimes, Security & Integration

Managed by Azure (PAAS) — Databases, Server Instances, Virtualization, Server HW, Storage, Networking

Managed by Office 365 (SAAS)

Blade   VM   Physical

Virtual Machines

Web/Worker, Database, Web Sites

O365, Flow,

What are "No-code Apps"?

Create process integration without need for "Dev"

Extends the usability of SharePoint to meet processes

Created and Managed by business users

Built through SharePoint Designer or InfoPath

Why do we need "No-code Apps"?

SharePoint Designer and InfoPath are not being improved

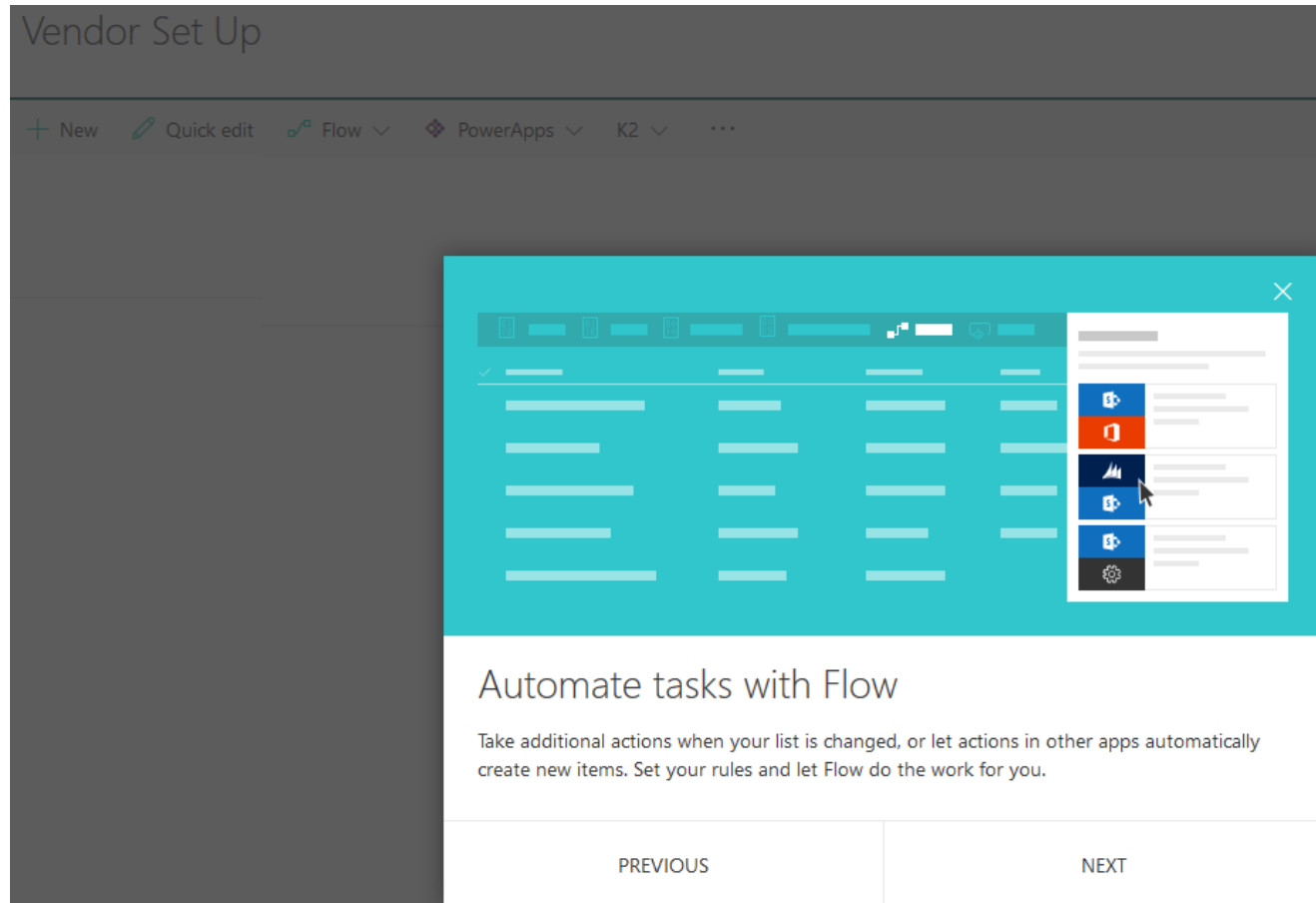Still a need for business/power users to make SharePoint custom for their workflow

Business/power users do not want to rely on IT for solutions

What is the future of No-code Apps?

Microsoft Flow

Flow can replace SPD Workflows for "basic" automation

No Code, visual UI

Easy for biz teams to build/manage

No need for Correlation ID

Very Powerful; Flow will have further governance by release

Microsoft Flow

Over 1000 templates already:
- Save email attachments to DropBox
- Copy files between systems
- Post to Yammer if hashtag
- Share tweets on Facebook
- Translate mail to language

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*

When a file is created

Include a Folder

Folder*

PowerApps

Connected to johnsharp@hotmail.com Change connection.

Dropbox / Dropbox

📁 PowerApps   >

Choose   Cancel

Send Email   ...

Subject*

New file: 📦 File name × has been added to your Dropbox

Body*

New information available

You can insert data from previous steps...

Outputs from When a file is created

| 📦 File content | 📦 File identifier | 📦 File name | 📦 File path |

| 📦 File entity tag | 📦 File content type |

Include a To

To*

To

...

Connected to johnsharp@contoso.com   Change connection.

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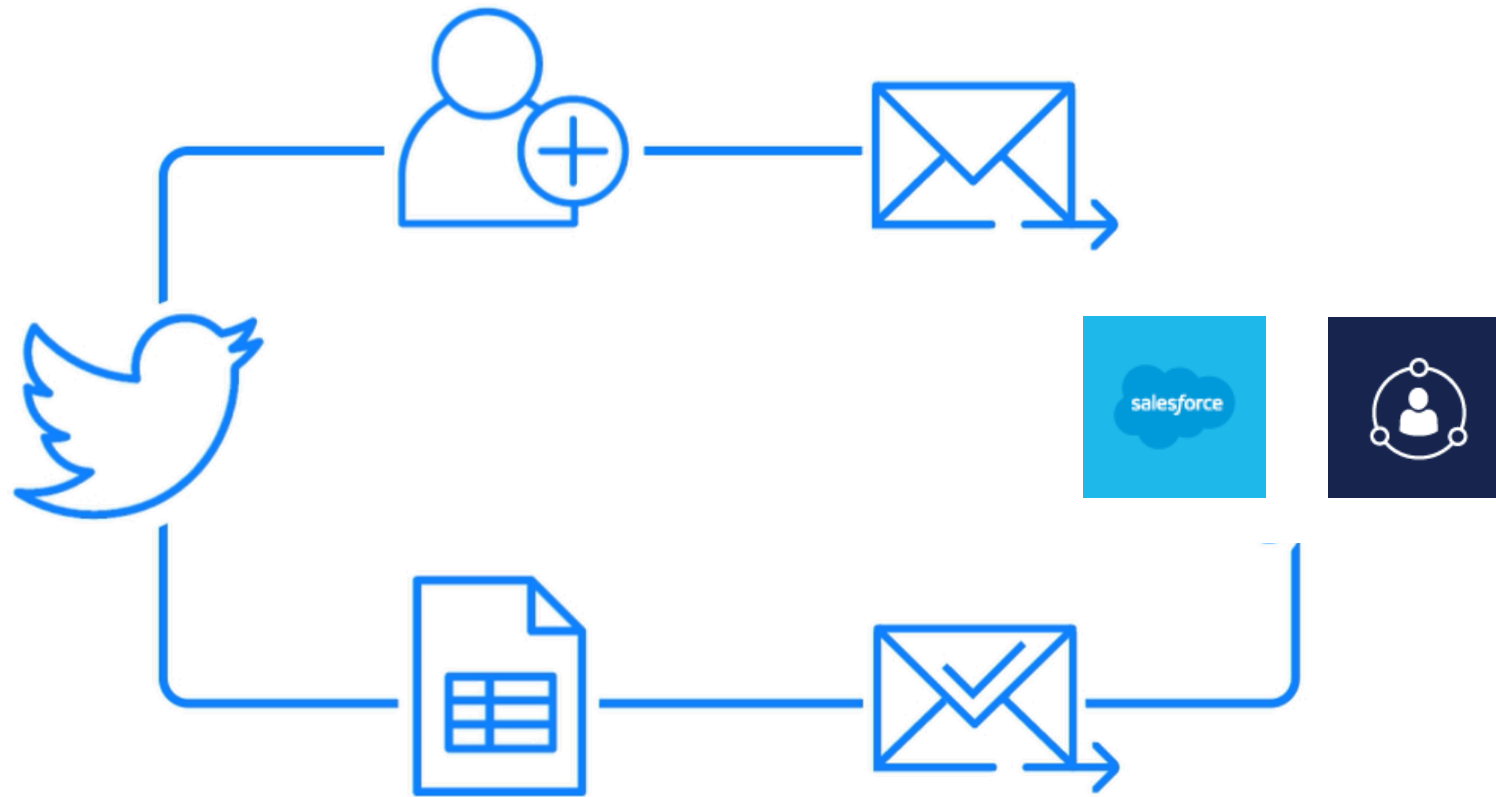
Automate advanced scenarios with multiple steps, branching conditions, and more

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

Microsoft Flow

#SPSENS Twitter Feed
Schedule Social Media

PowerBI
Download for free at PowerBI.com or the Windows Store

Benefit from continuous updates and community-driven innovation

Streamlined for no-code advanced analytics

Built-in intelligence to speed up your analysis

Automatic updates from the Windows Store

Get data
Easily connect, clean, and mashup data

Connect to 80+ data sources, both on-premises and cloud

Shape, transform, and clean data for analysis

Live connectivity to on-premises and cloud data sources
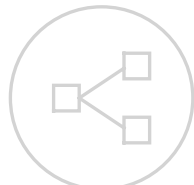
Extend with custom data connectors for any data source

Prep your data using the familiar Power Query experience on the web

Self-service prep for big data
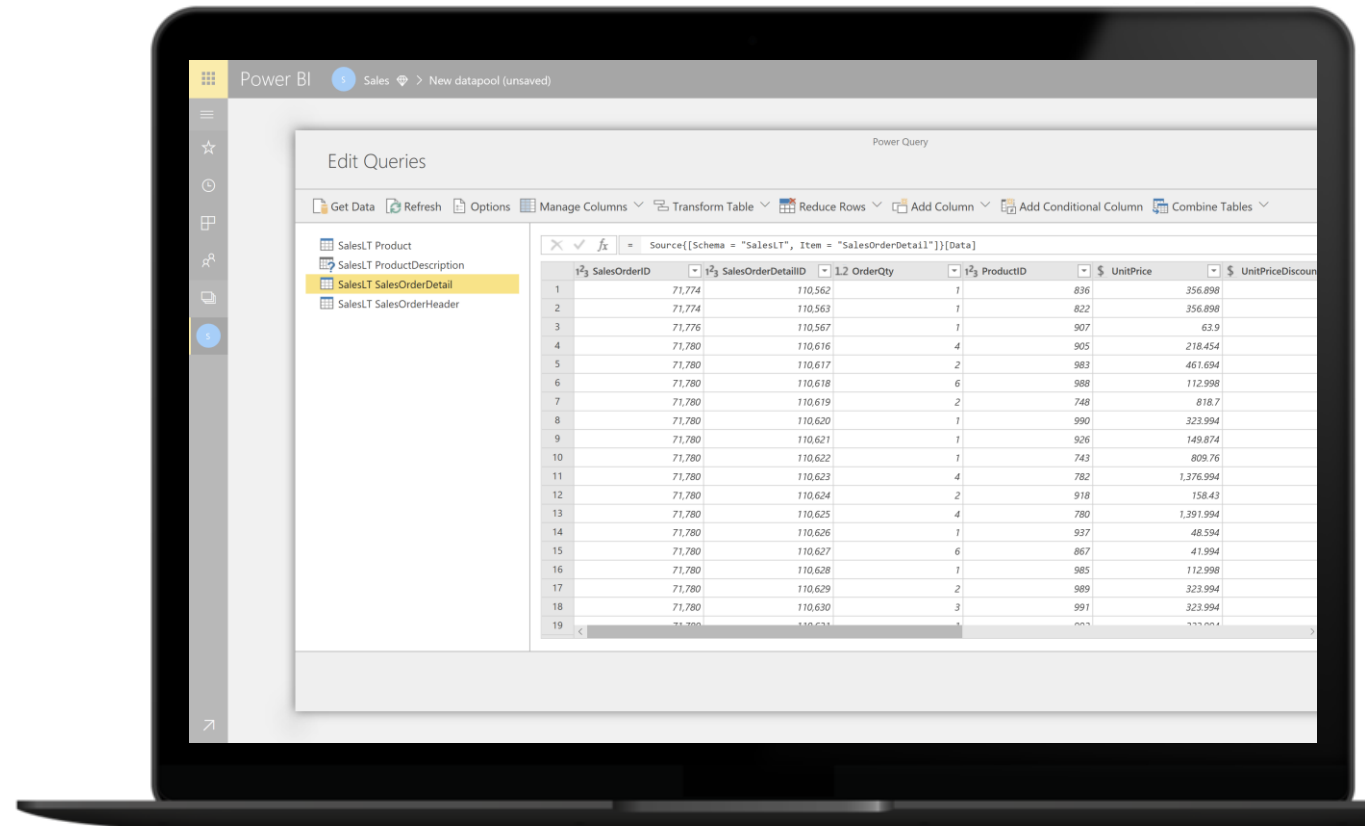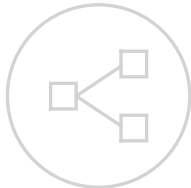## Ingest, transform & integrate big data with Power BI

Prep your data using the familiar Power Query experience

Get started quickly with a common data model

Extend self-service prep to Azure Data Lake Storage

Analyze
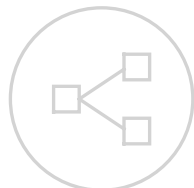## Build powerful models and flexible measures

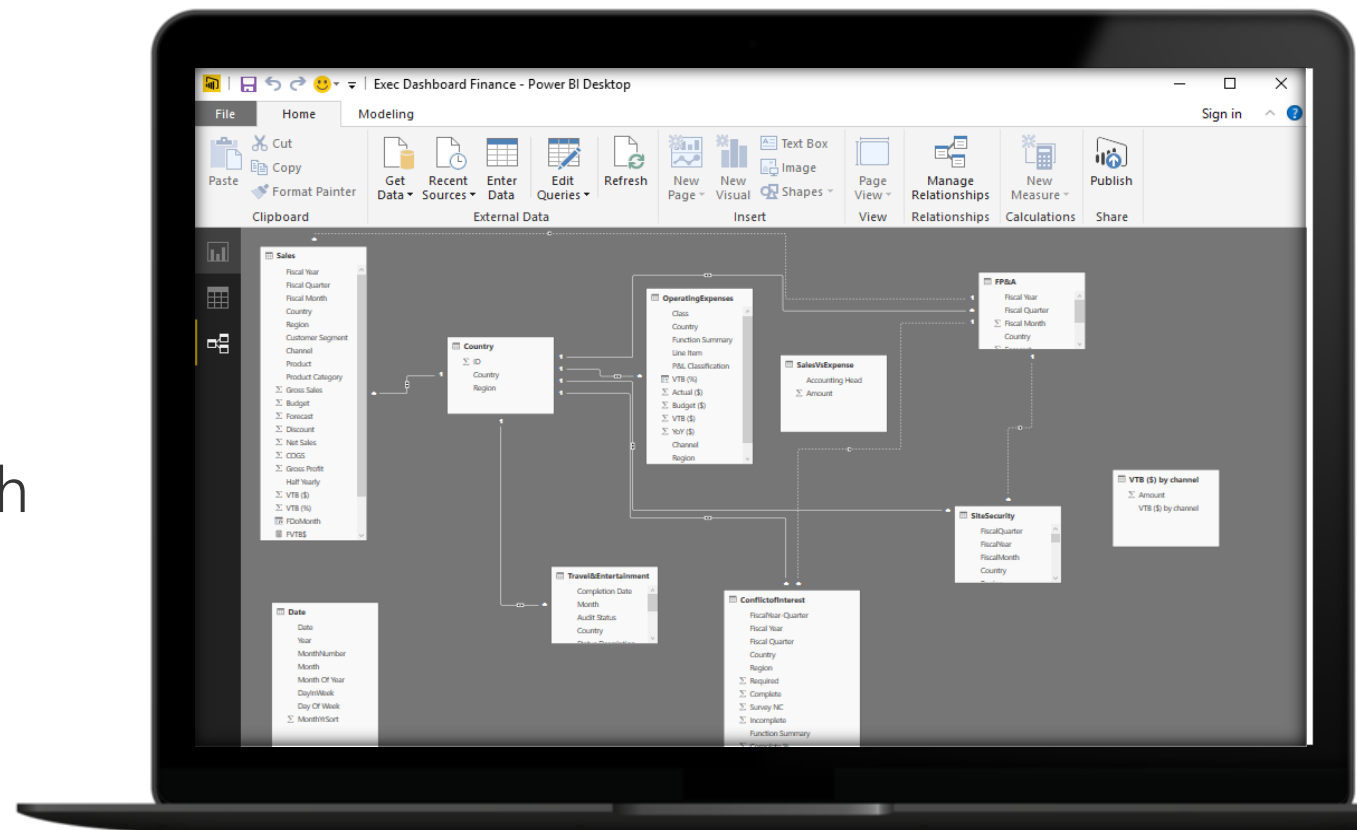Automatically created model when connecting to data

High-performance, in-memory engine

Point and click analysis with Quick Measures, Clustering, and Binning

Create powerful measures with familiar DAX formulas

Visualize
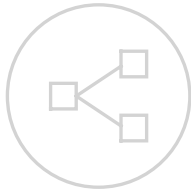## Create stunning interactive reports

Author reports using 150+ visuals via a drag-and-drop canvas

Explore data across multiple interactive visualizations

Provide insights in the context of your business with Custom Visuals

Visualize your data story with bookmarks and custom navigation
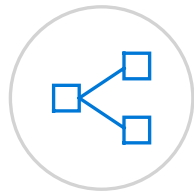
Publish
Share insights with others

Publish directly to the cloud or on-premises

Automatic data refresh, so your reports are always up to date

Package your reports in apps for easy consumption and control

Manage your analytics content with admin and governance tools
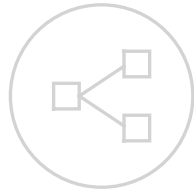
Collaborate
Empower your organization

Provide access to reports and dashboards anywhere on any device
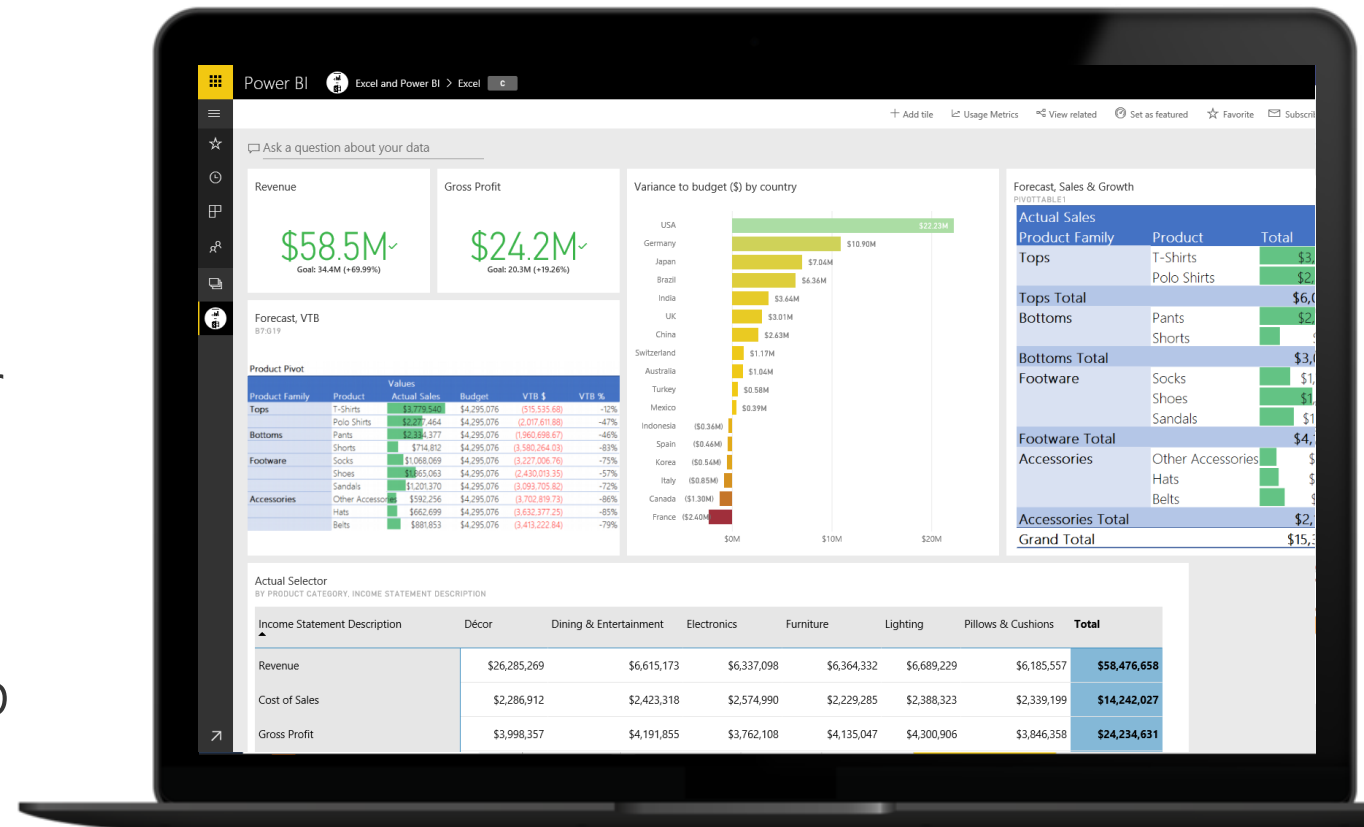
Enable users to ask questions and automatically discover insights from the data

Deliver insights through other services such as SharePoint and Teams

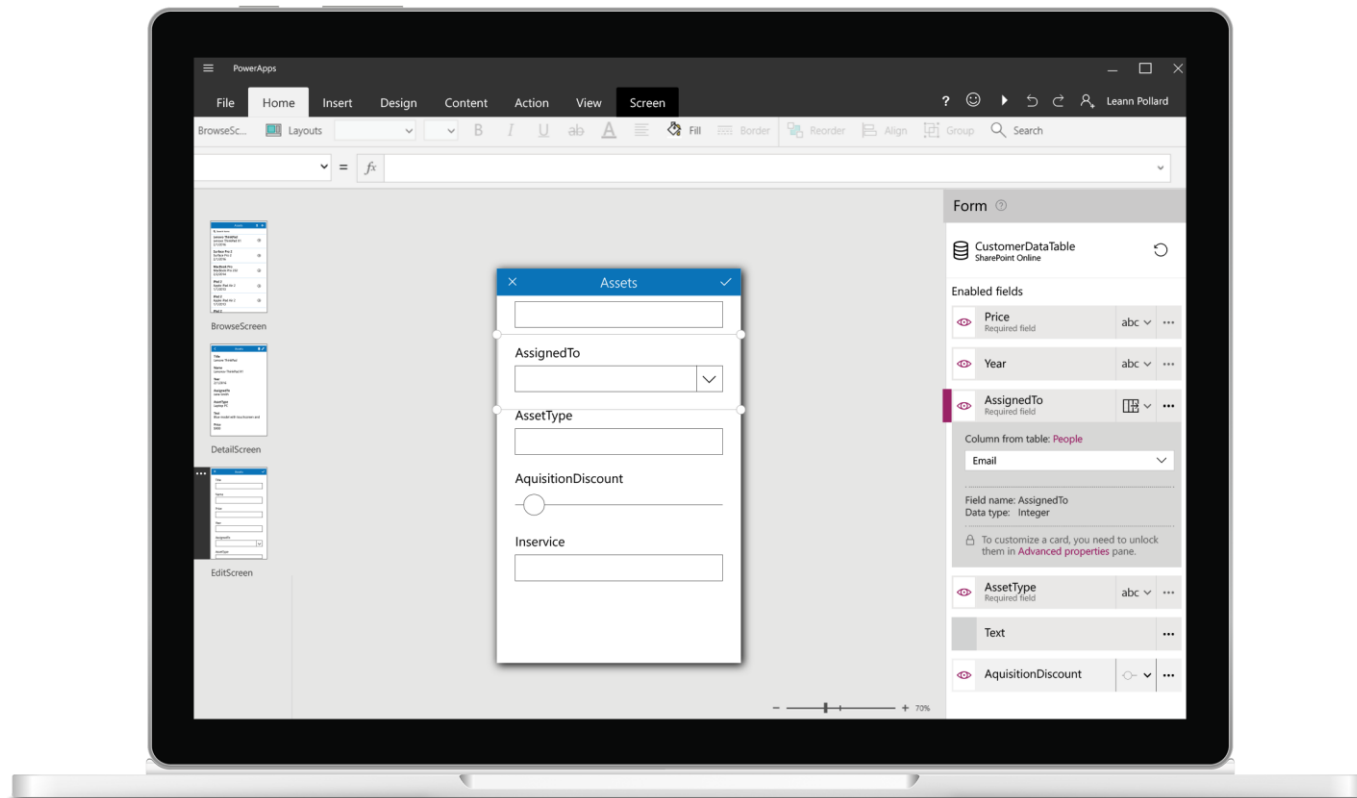Connect live to your models in Excel and Power BI Desktop

PowerBI

#SPSENS Twitter Feed

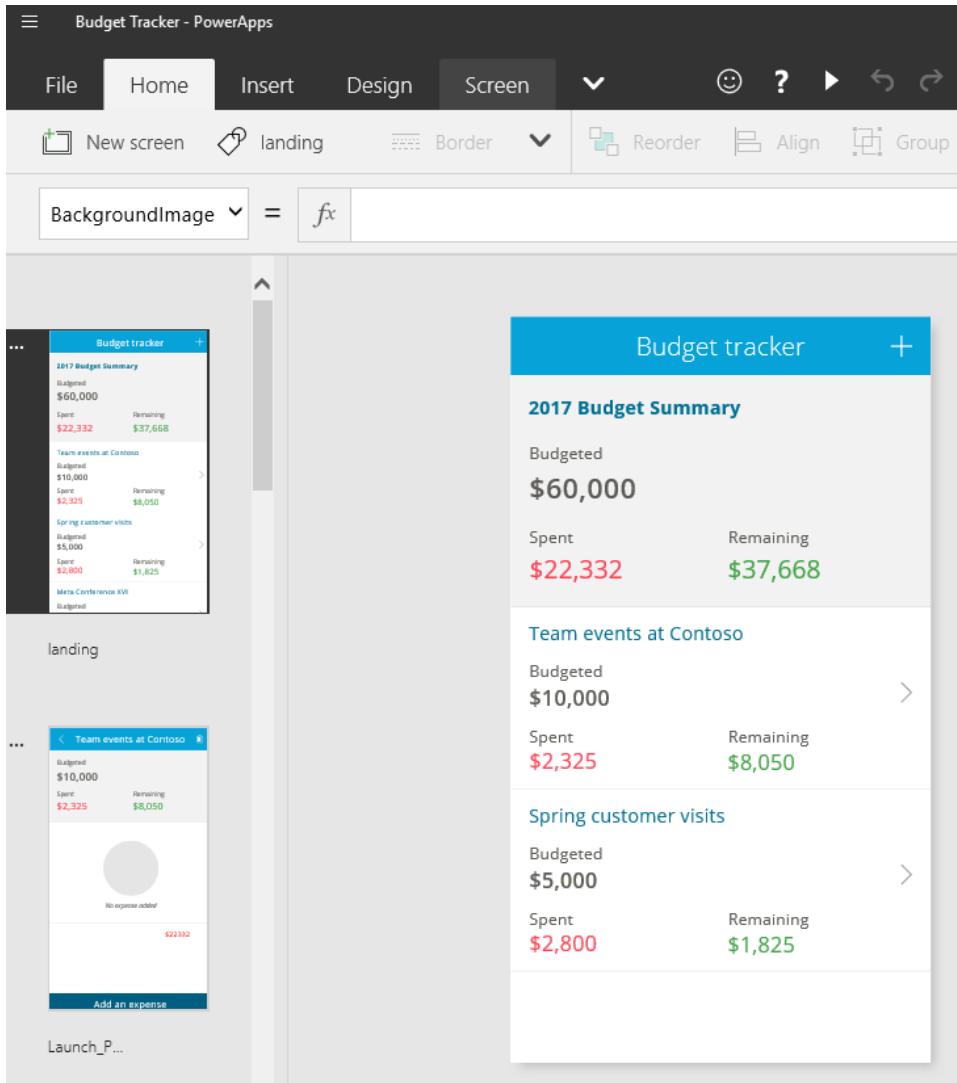# PowerApps

No Code Visual Designer Online

Device capabilities – GPS, Camera, Pen

Quickly generate and customize apps based on Excel files, SharePoint Online lists, Salesforce records and more.

Connect to data in on premise systems through a common Data Gateway.

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

PowerApps as an IT Tool

Encourage Business Teams to use PowerApps

- Smaller point design apps no longer take up IT time
- Business teams can make the app work for them both business flow and UI
- Allow Business teams to iterate quickly
- When they hit their capacity or PowerApps cannot do what they want, onboard to IT tooling and support

PowerApps

#SPSENS Twitter Feed
Schedule Social Media

The Future of No-code Apps is Now!

Future is the "Business Application Platform"

Build modern business apps fast
Compose analytics, user experiences, and automation using an integrated set of services from Microsoft

MEASURE   ACT   AUTOMATE

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

Azure Data analytics	Azure AppServices	Azure Logic Apps
Azure Internet of Things	Azure Service Fabric	Azure API Management
SQL Server BI	Azure Functions	BizTalk
...	...	...

Connected data across apps
Whether built on the Common Data Model or integrated with existing systems, get more value from your data
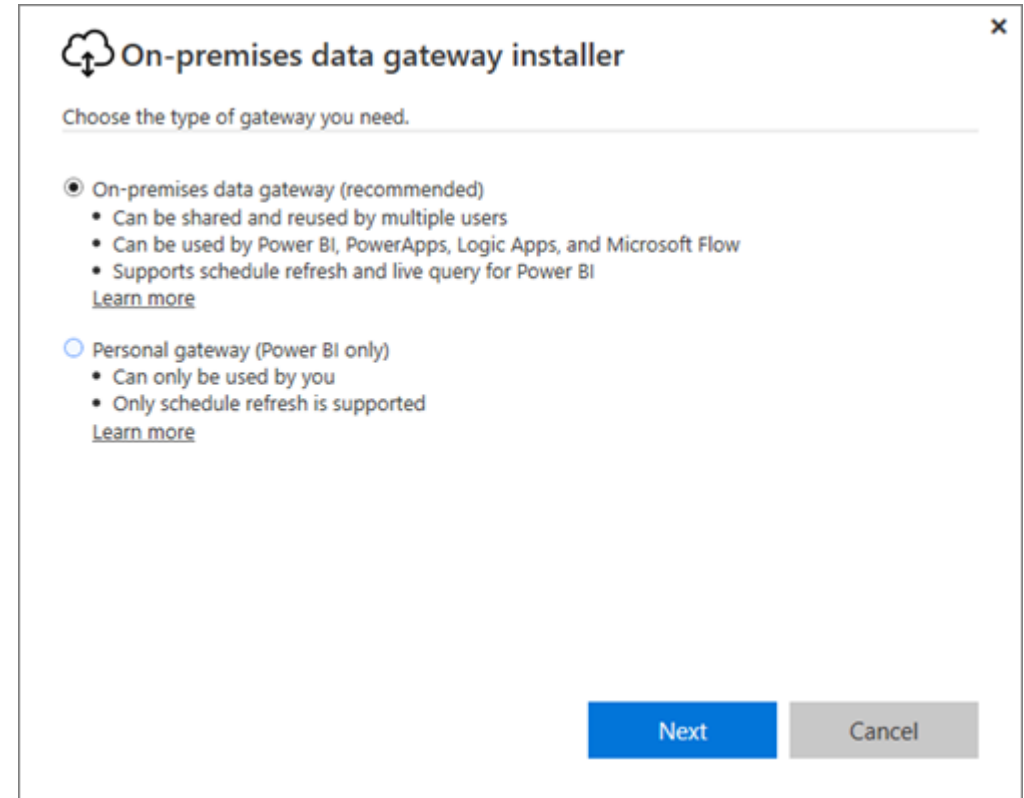
Common Data Model   Connectors & Gateways

Hybrid Connectivity for Power Platform

On-premises data gateway

- Allows PowerBI, PowerApps and Flow to access on-premises data sources and systems
- Easy to Manage
  - Centrally by IT
  - Individually by team
- Extends capabilities to on-premises world

Azure Logic Apps

- Easy to use design tools
  - End-to-end in the browser
  - Advanced with Visual Studio tools
- Connect APIs easily
  - Connect disparate systems
  - Connect fast with built-in connectors
  - Develop your own APIs to make custom connections
- Get started quickly from templates
  - Advanced B2B connections
  - Integrate with other SaaS solutions

- Extensibility baked-in
  - Designed to work with your own APIs and code
  - Tie Logic Apps to Functions to keep the
- Real integration horsepower
  - Leverage the power of BizTalk
  - Grows with your needs
  - Pay by the transaction

Logic Apps vs. Flow
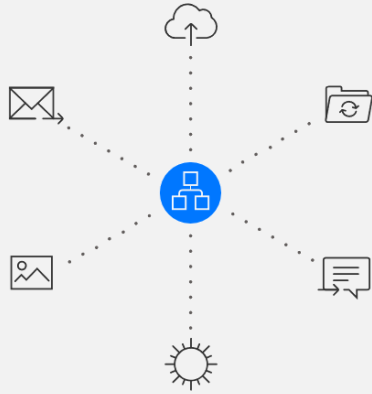
MICROSOFT FLOW

- **Modern equivalent to SharePoint Designer Workflows**
  - **Tied to PowerApps**

- **Graphical interface for editing**

- **Connectivity to select APIs**
  - **SharePoint**
  - **SQL DB**
  - **Third Parties**

LOGIC APPS

- **Scalable app service**
  - **Can scale with usage**

- **Starts from Graphical User Interface**
  - **Can be tuned via JSON and other code**

- **Can connect to any services available publicly**

www.microsoft.com/ITshowcase

Engage with me!

Jared Shockley

🐦 @jshoq

in /in/jaredshockley

f /JaredOnTech

This deck will be available online at:
http://jshoq.me/spsens2019thanks

Appendix
Azure Logic Apps

- https://azure.microsoft.com/en-us/services/app-service/logic/
- https://azure.microsoft.com/en-us/documentation/articles/app-service-logic-what-are-logic-apps/

Microsoft Flow

- http://flow.microsoft.com
- https://flow.microsoft.com/en-us/documentation/getting-started/
- https://powerusers.microsoft.com/t5/Microsoft-Flow-Community/ct-p/FlowCommunity