

# Redefined in the Age of Al: Power Automate for desktop Workshop

#### **Speakers**

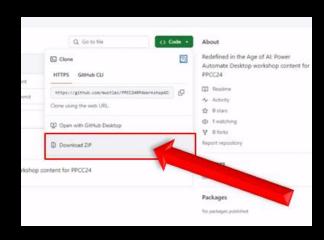
Mustapha Lazrek Ken Seong Tan Quentin Sele Barancy

Module	Timing	#	Session	Lab	Timing
Pre setup work office hour	8:00 - 9:00	0	Environment and setup check. Setup lab, troubleshooting		60 minutes
Workshop officially starts here					
Part I: Introduction	09:00 - 9:30	1	Lab prerequisites 1 – Install hosted machine and required software	Lab 1	30 minutes
	9:30 - 09:50	2	Introduction to Power Automate, Desktop flows and Hosted machine demo		20 minutes
Part II: Discover Desktop flows with Copilot	09:50 – 10:20	3	Discover Power Automate for Desktop and create your first Desktop flow with Copilot	Lab 2	30 minutes
	10:20 – 10:50	4	Use input and output parameters	Lab 3	30 minutes
Break (10 minutes)					
Part III: Excel and Web automation	11:00 – 12:00	5	Subflows, Excel and Web automation, AlBuilder with GPT action, suggested actions	Lab 4	60 minutes
Lunch break (60 minutes)					
Part IV: Hyperautomation	13:00- 13:30	6	Cloud integration (Outlook Trigger)- Machine connection & Attended run	Lab 5	30 minutes
	13:30 - 14:00	7	[Optional] Intelligent document processing with AI builder	Lab 6	30 minutes
	13:30 - 14:00	8	[Optional] Integration with Teams for Approvals	Lab 7	30 minutes
Break (10 minutes)					
Part V: Scale your automations and infrastructure	14:10 - 14:40	9	[Optional] Work queues and unattended automation	Lab 8	30 minutes
	14:40 - 15:10	10	[Optional] Monitor or troubleshoot your automations	Lab 9	30 minutes
Part VI: Copilot free lab	15:20 - 15:40	11	Al Recorder demo + Try Copilot experiences	Free lab	20 minutes
Part VII: Closing	15:40 - 16:00	12	Survey, Closing + Q&A		50 minutes

# Welcome to the workshop!

#### Download the lab resources

- 1. Go to <a href="https://aka.ms/PPCC24RPALabs">https://aka.ms/PPCC24RPALabs</a>
- 3. Once zip file downloaded, extract it.
- 4. Open Lab 01 (Prerequisite) Install required software.pdf
- 5. Follow the instructions.



Your password is...

# Part I Introduction

# Lab 1 Prerequisites - Install required software

30 minutes

# What you'll learn



How to create an end-to-end automation with:

- Desktop flow (UI and Web)
- Cloud flow
- Al model for document processing

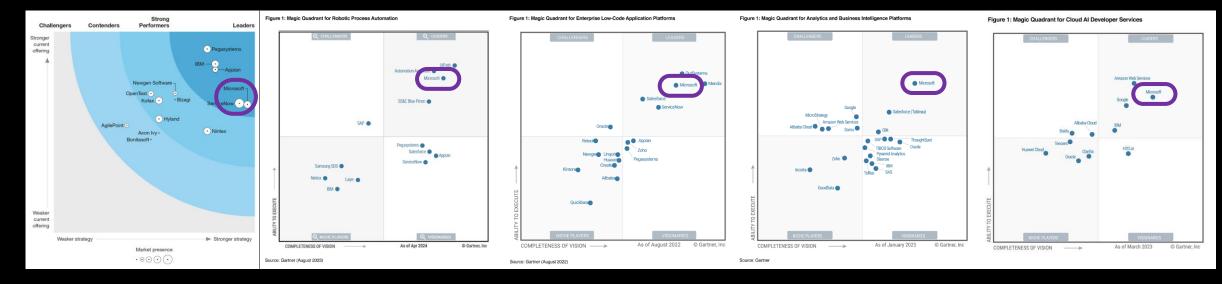
How to run, troubleshoot and monitor your automations with:

- Desktop flow activity
- Automation Center



With the assistance of Copilot

# Microsoft is a Leader in Hyperautomation

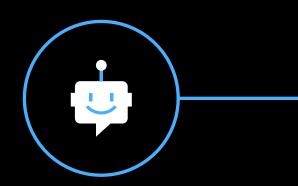


Digital Process Automation (DPA) Robotic Process Automation (RPA) Low-Code Applications (Power Apps) Business Intelligence (BI) Artificial Intelligence (Al)

# **Power Automate**

Microsoft's Al-first Automation platform

#### Workshop content



#### Robotic Process Automation

Automate UI actions in desktop or browser, across legacy and modern apps



#### Digital Process Automation

Digital Process automation to build simple to complex workflows with 1K+ of *pre-built* or custom connectors



# Intelligent Document Processing

Data extraction and content generation with Al Builder



# Process & Task mining

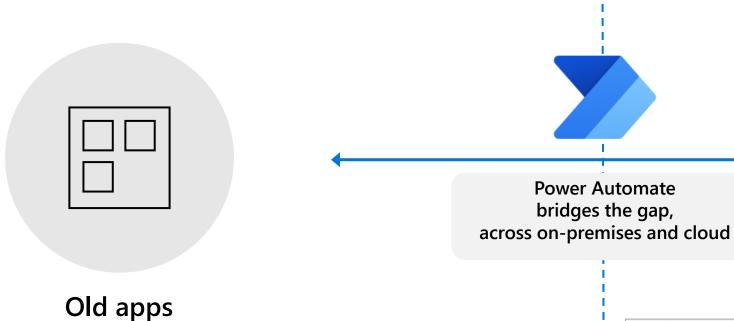
Analyze bottlenecks and get recommendations on how to improve automations

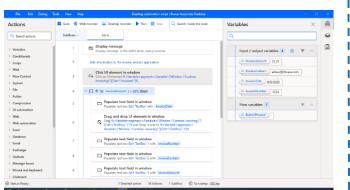


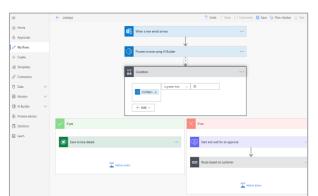
#### **Copilot assisted automation**

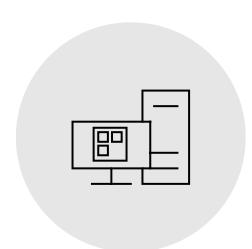
Infuse AI/ML into any workflow to transform data into actions, without code

# **Cloud and Desktop flows**









Modern Systems with APIs

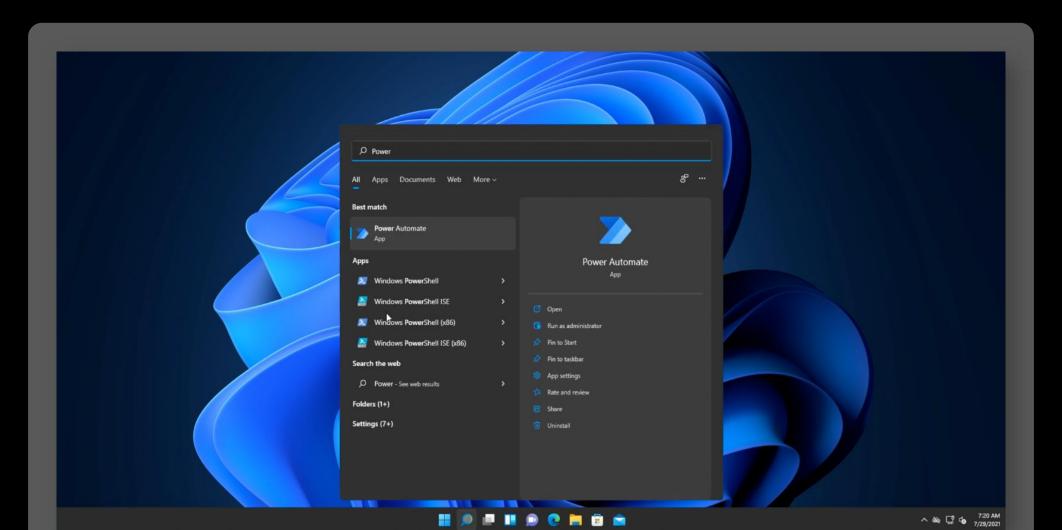
Cloud flows DPA

Desktop flows RPA

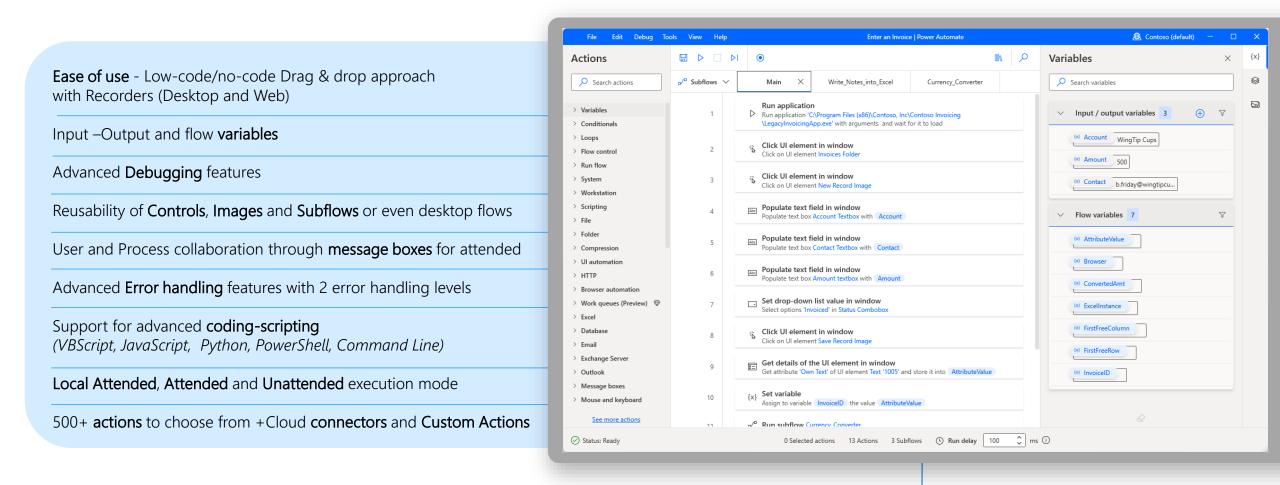
without APIs

## **Power Automate in Windows 11**

Windows 11 users can begin using Power Automate for desktop right from the Start menu



# Introducing Power Automate desktop flows



...and more

### Lab scenario Overview – Contoso Coffee shop company Invoice processing



Email triggers cloud flow



AlBuilder extracts data









Desktop flow interacts with desktop app, Web, GPT



Confirmation email sent back



A vendor of Contoso Coffee shop has delivered the order and would like to process the invoice. The vendor sent the invoice pdf file to Contoso Coffee shop by email



Power Automate monitored the inbox of Contoso Coffee shop, used Al builder to extract information from the invoice file attachment



Power Automate desktop flow will open the legacy desktop application that Contoso Coffee shop using to manage invoices and fill in the invoice details

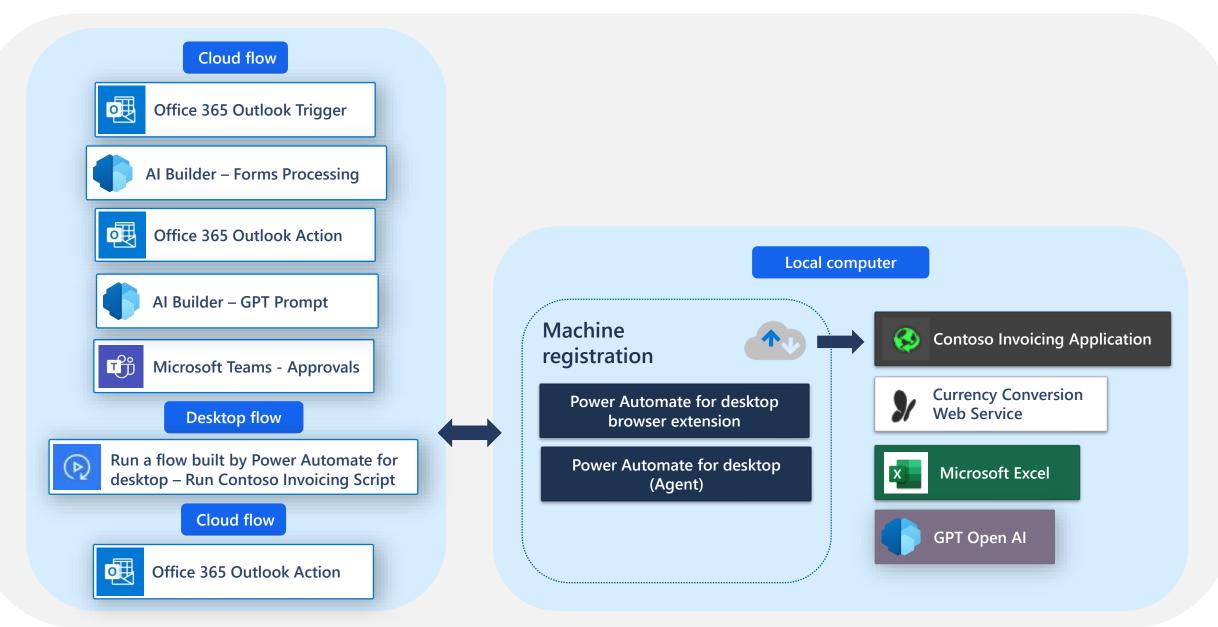


In the Desktop flow a webbased real-time currency conversion is used, and an audit log is captured in Microsoft Excel



Power Automate sends an email back to the vendor to notify that the invoice has been approved

### Lab scenario – Invoice processing Solution Architecture

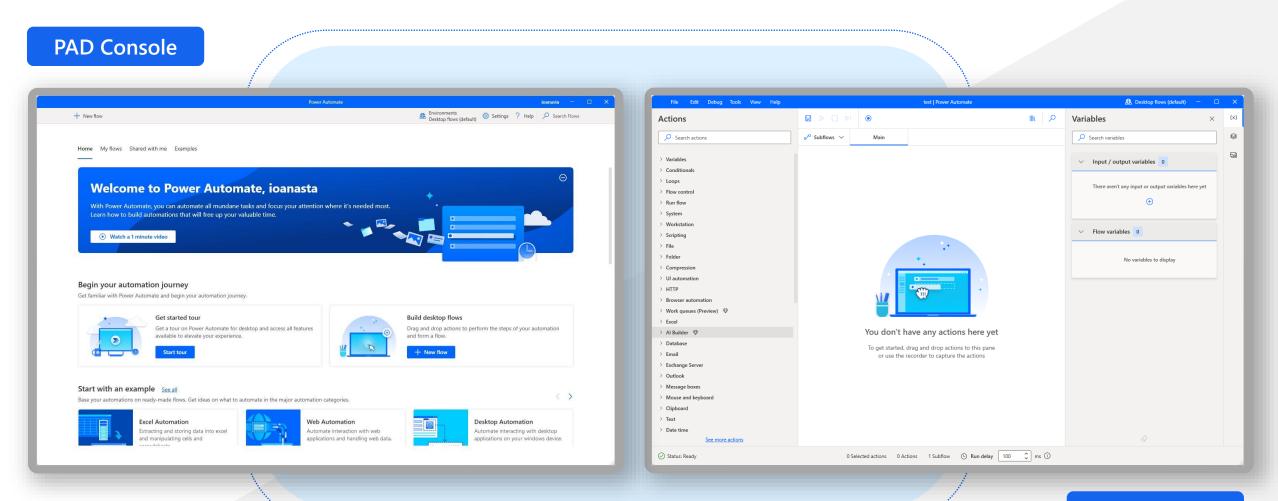


# Part II Desktop flows basic

# Lab 2 Create your first Power Automate Desktop flow

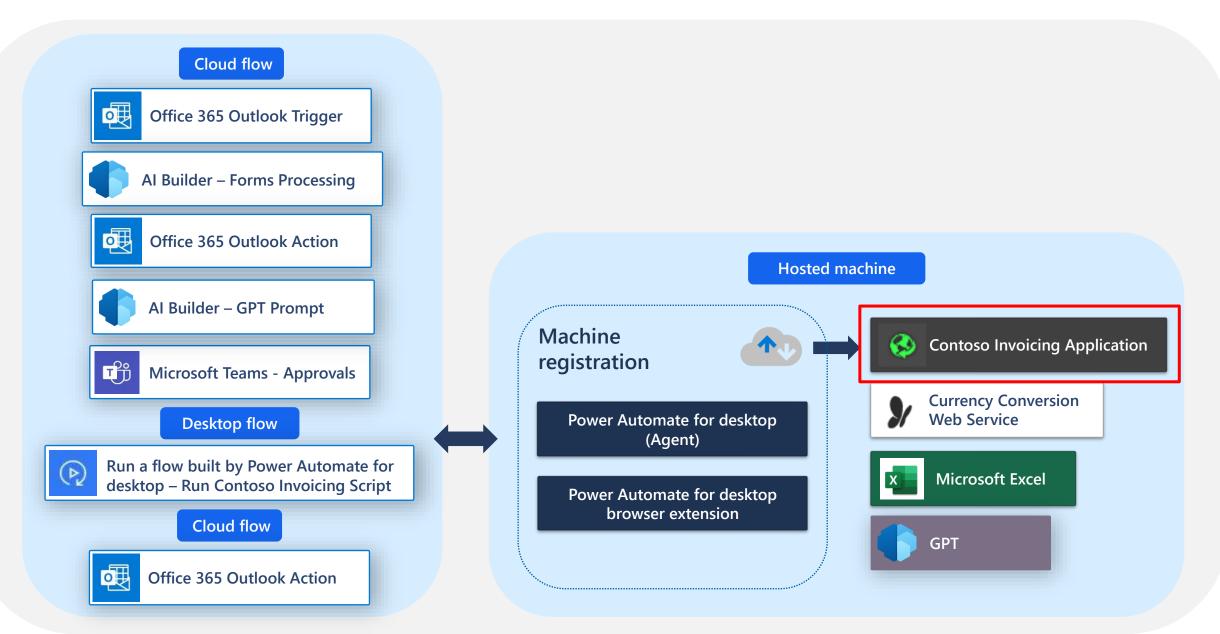
30 minutes

### Power Automate for desktop



**PAD Designer** 

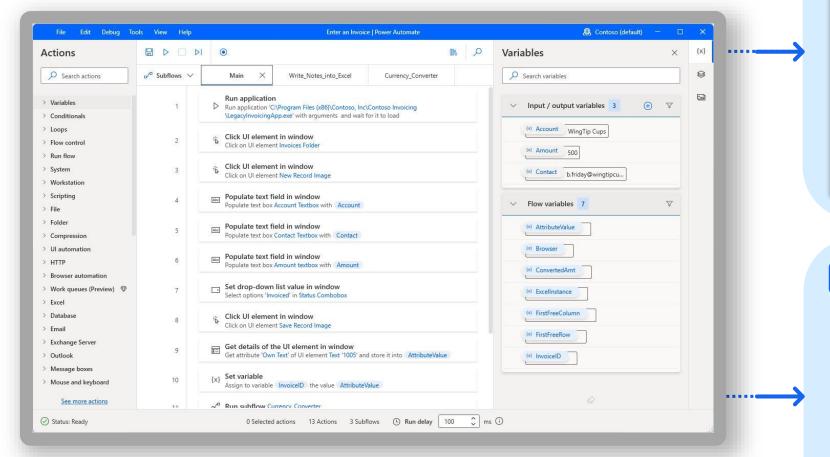
#### Where are we in the scenario in this Lab?



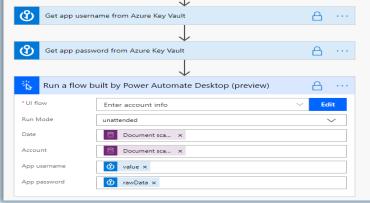
# Lab 3 Use input and output variables

30 minutes

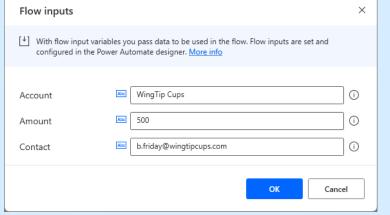
## Why use inputs/outputs?



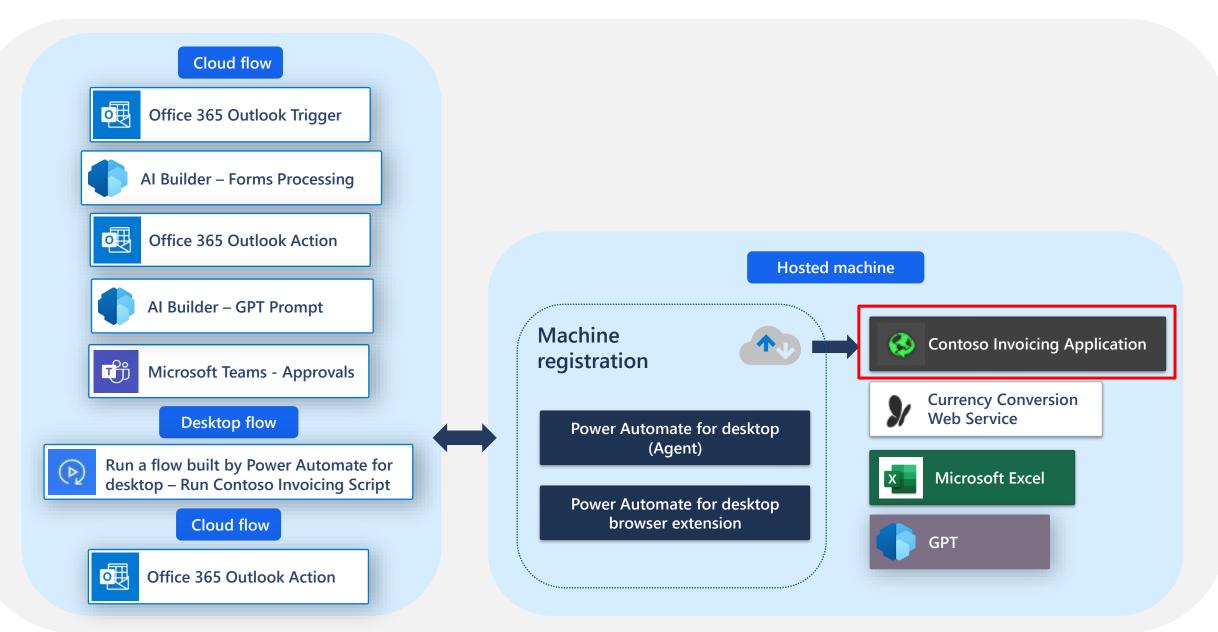
## Bind them in the cloud flow that runs the desktop flow



#### Use them to run a local attended desktop flow



#### Where are we in the scenario in this Lab?



# Part III Desktop flow Web and Office Integration, GPT

Quentin Sele Barancy

# Lab 4 Subflows, Excel and Web Automation Al Builder with GPT action

60 minutes

#### Subflows, Excel, Web, GPT



#### **Exercise 1**

Build a Power Automate
Desktop subflow to write
notes into Microsoft Excel

Create a process with fixed value variables.



#### **Exercise 2**

Build web automation using Power Automate for desktop

Web data scraping and writing to Microsoft Excel



#### Exercise 3

Use AI Builder within Power Automate for desktop

Use the GPT action to summarize the details of invoices

### **Subflows in Power Automate for desktop**

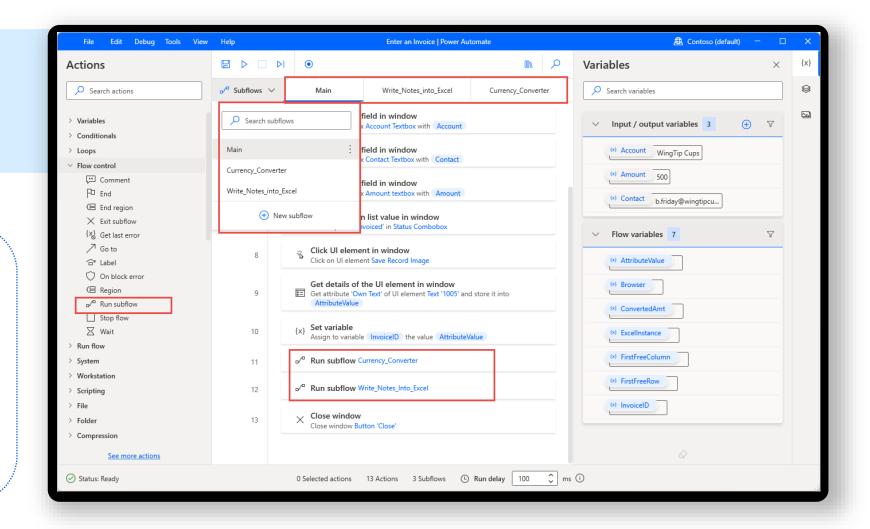
Split the logic of the flow into subflows that can be called from anywhere in your flow

Better organization

Better readability

Better troubleshooting

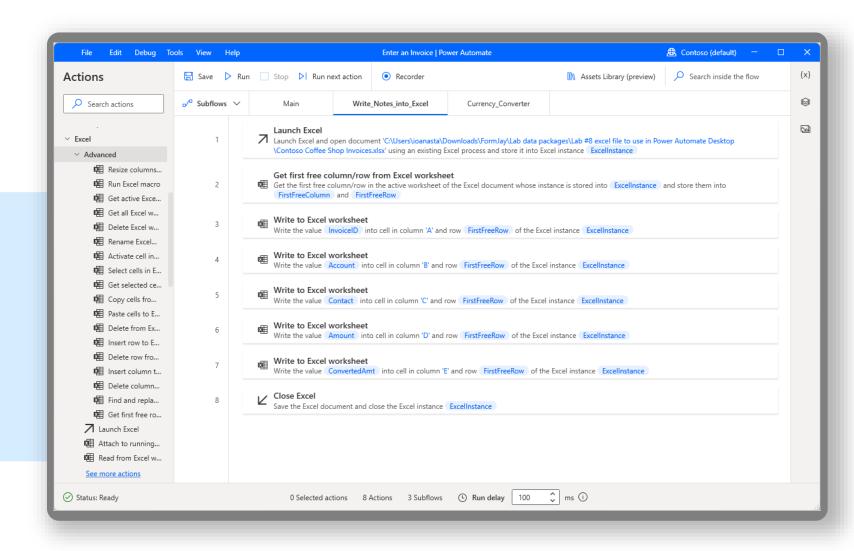
Reusability



#### **Excel Automation**



A wide range of excel actions that help automate any excel related task.



#### **Web Automation**

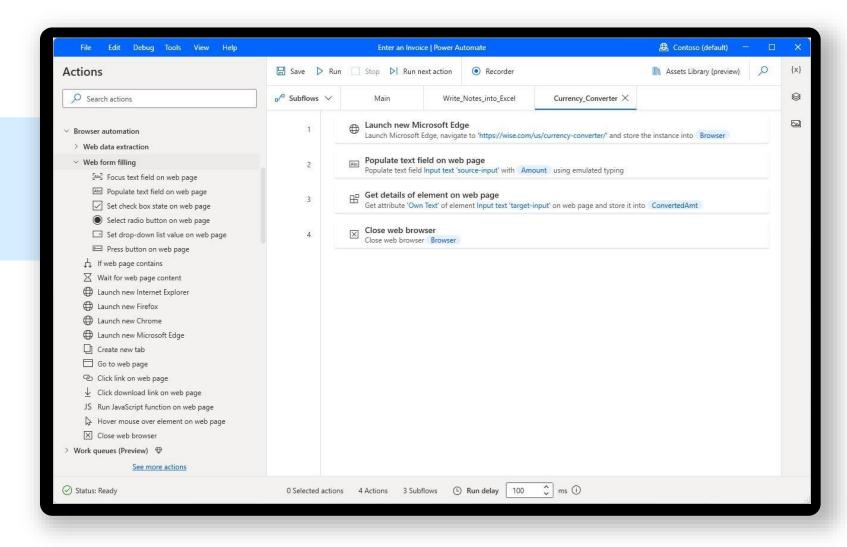


Web Automation supporting: Edge, Chrome, Firefox browsers



Web data filling

And any web related activity



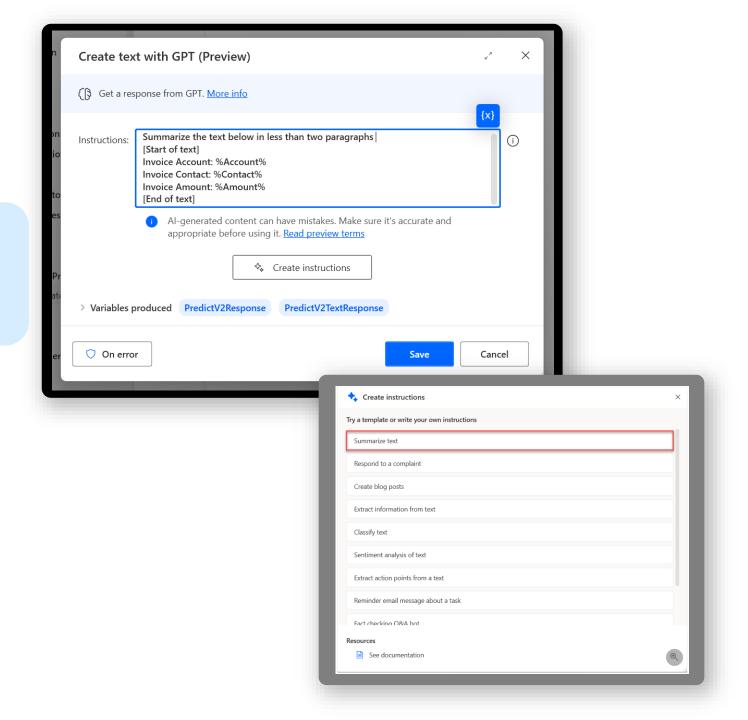
### AI builder using GPT



Get a response from GPT

Choose a template

or write your own instructions



### **Copilot**

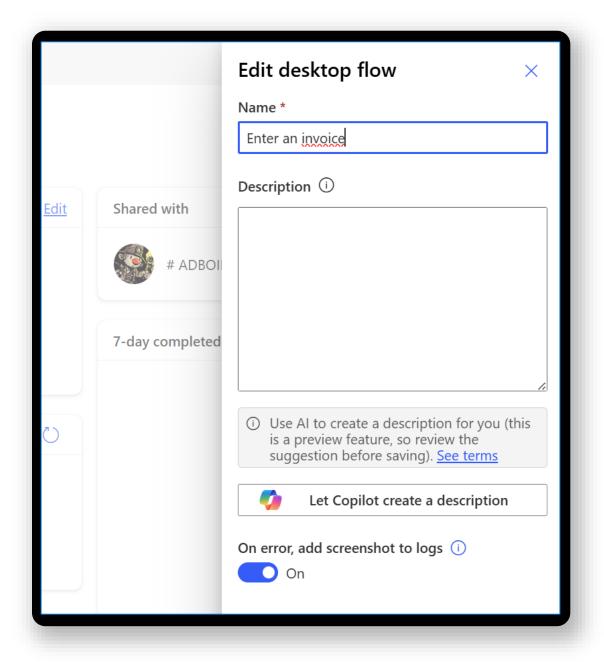


Let Copilot create a description

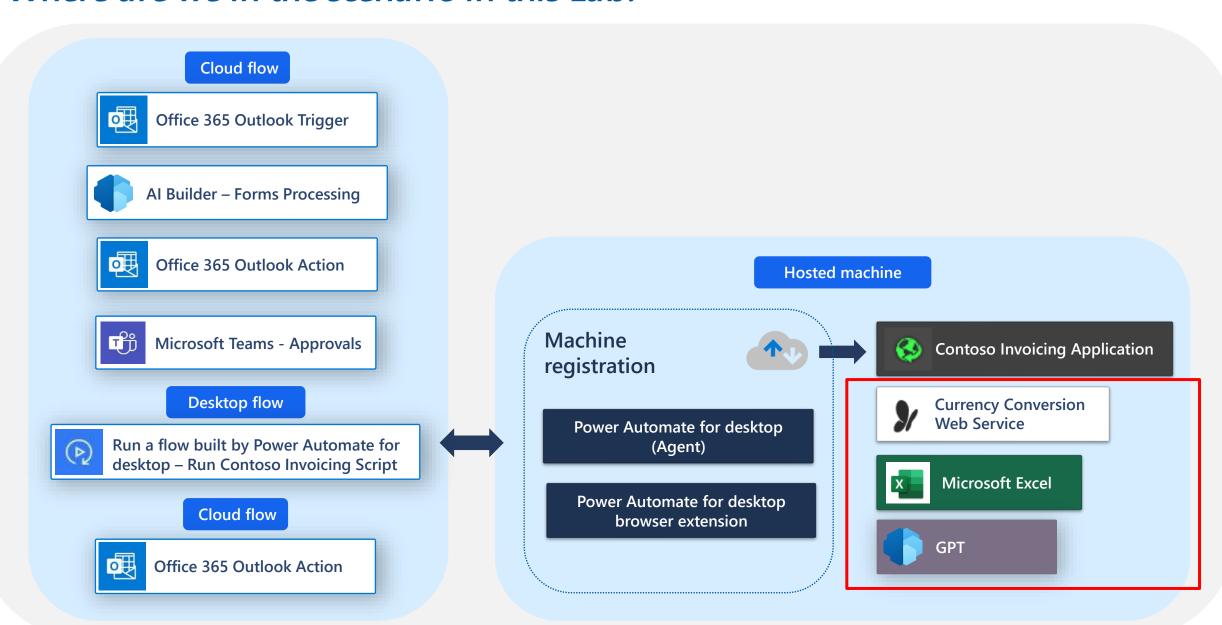
Better collaboration

Easy generation of the

description



#### Where are we in the scenario in this Lab?



# Part IV Hyperautomation

- Cloud Flows and triggers
- Intelligent Automation with AlBuilder
- Integration with Teams for Approvals

Ken Seong Tan

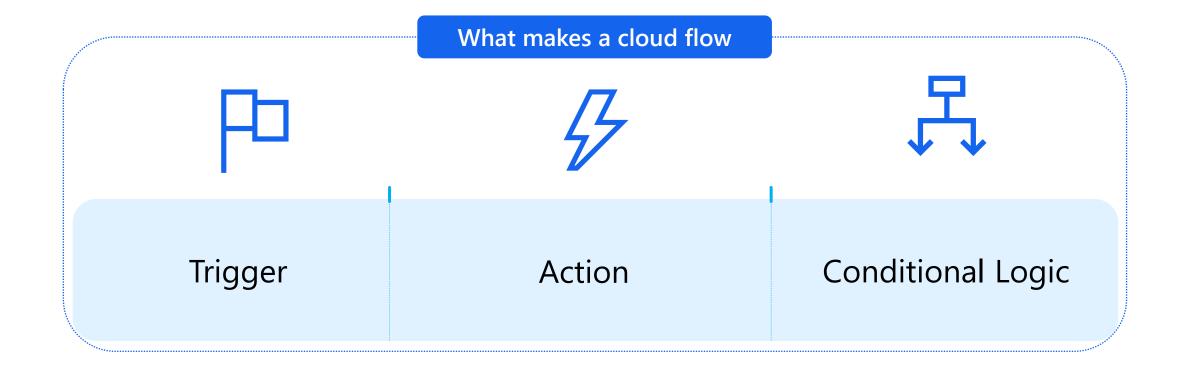
# Lab 5

# Cloud Integration (Outlook trigger) Machine connection and Attended execution

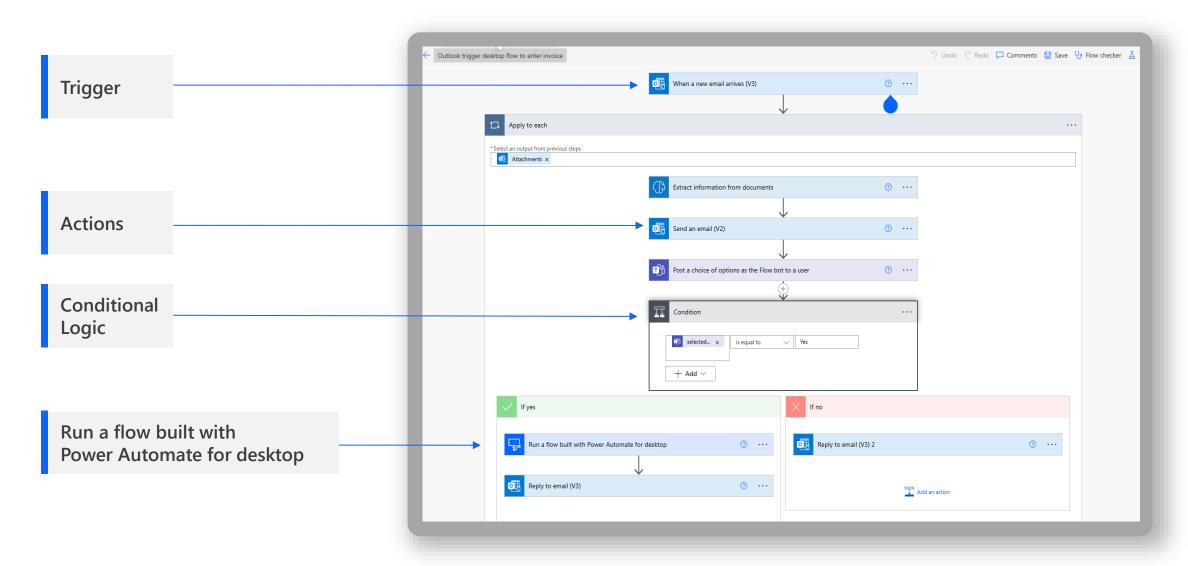
30 minutes

#### What is a Cloud flow?

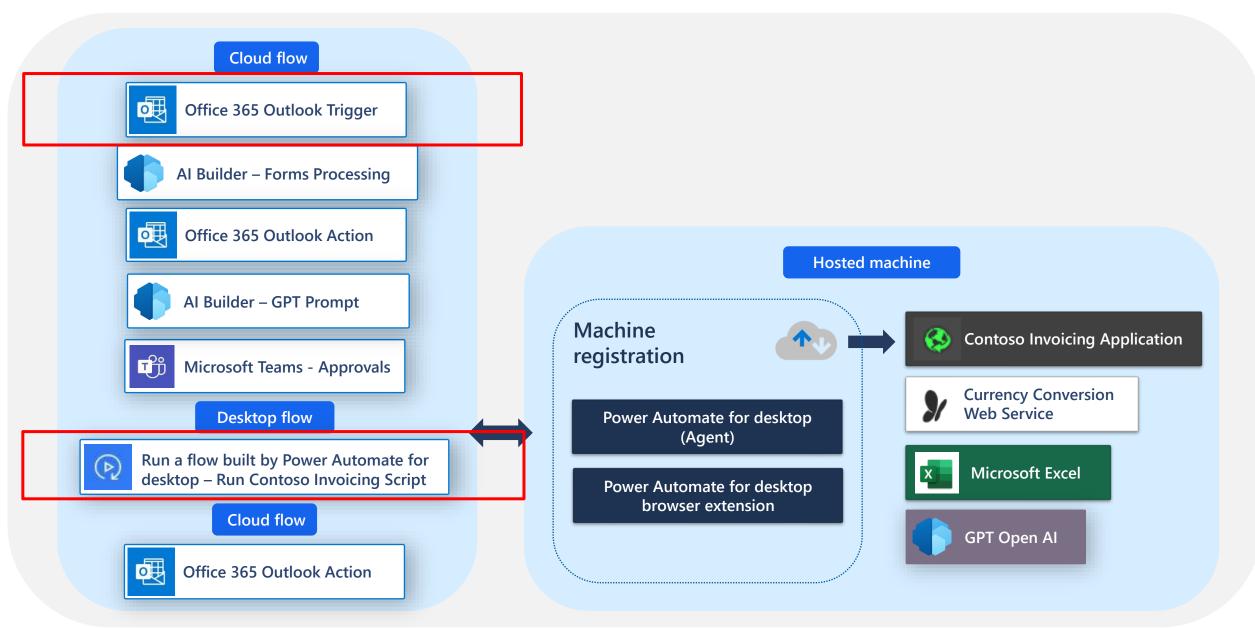
# A cloud service that allows you to automate your business process



### Cloud flow: Trigger - actions - conditional logic



#### Where are we in the scenario, in this Lab?



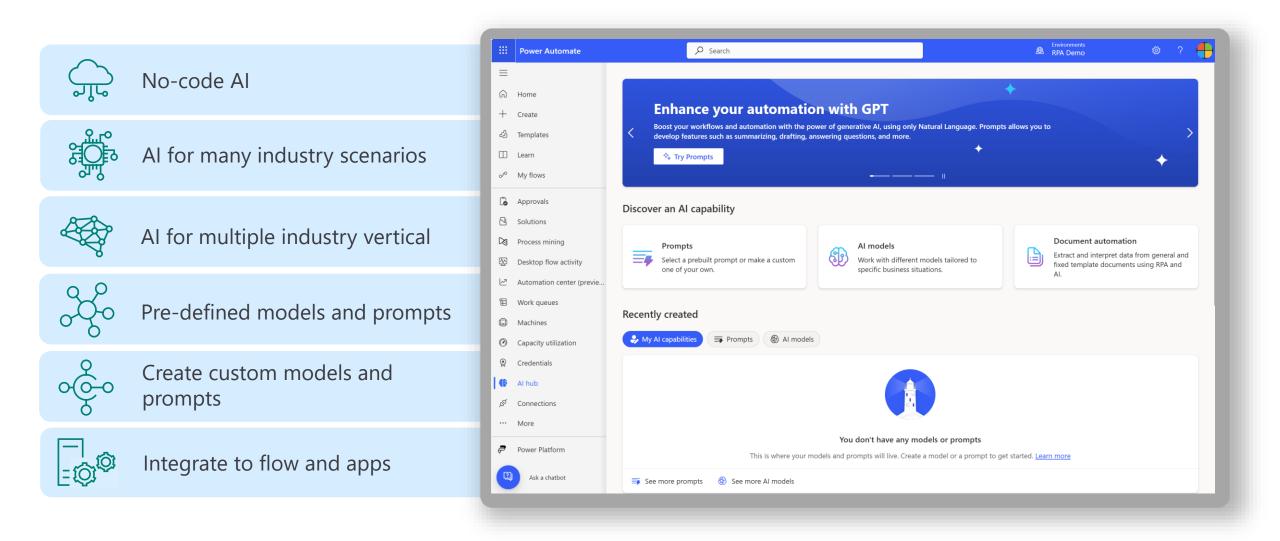
# Lab 6 Intelligent Automation: AlBuilder

30 minutes

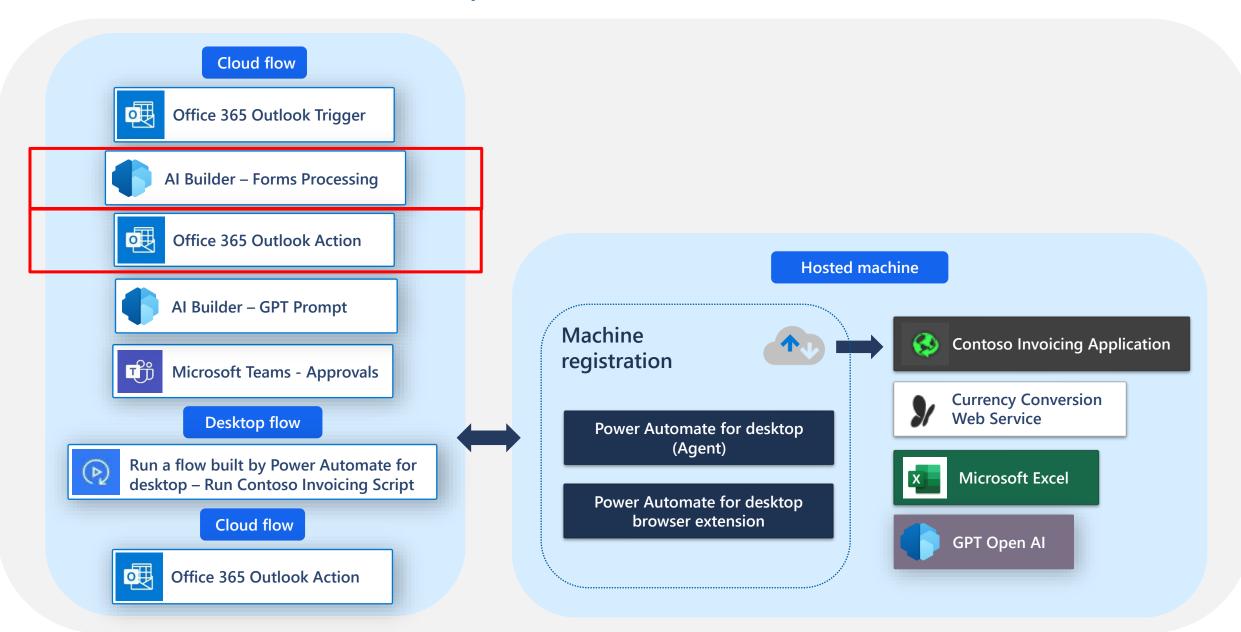
# Tips & Tricks before you started

✓ You may need to turn the on AI Builder trial:

### **AlBuilder in Power Automate**



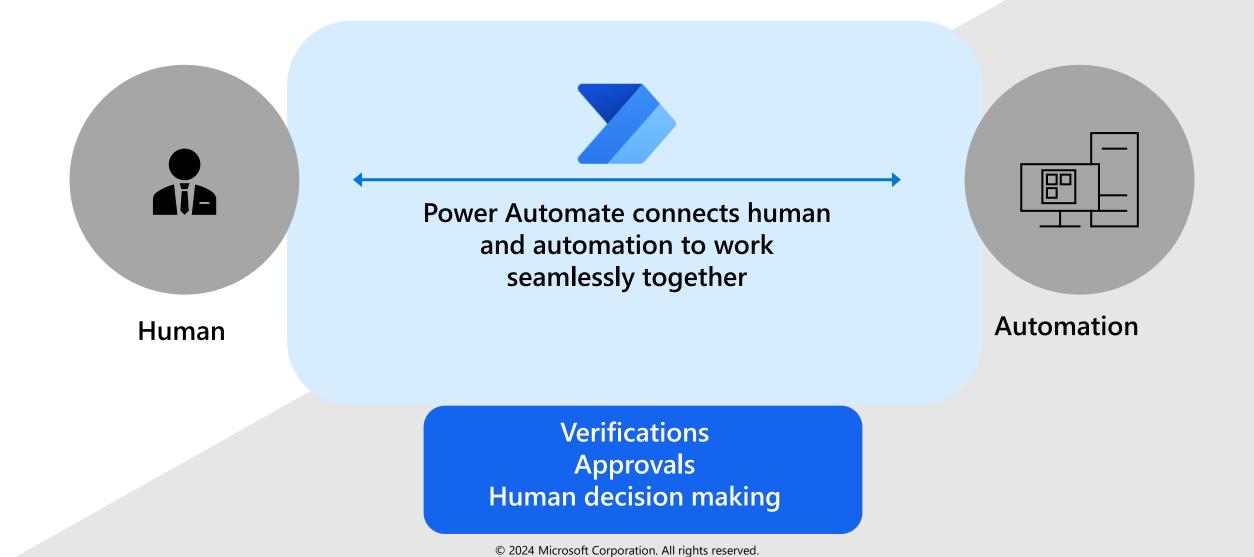
### Where are we in the scenario, in this Lab?



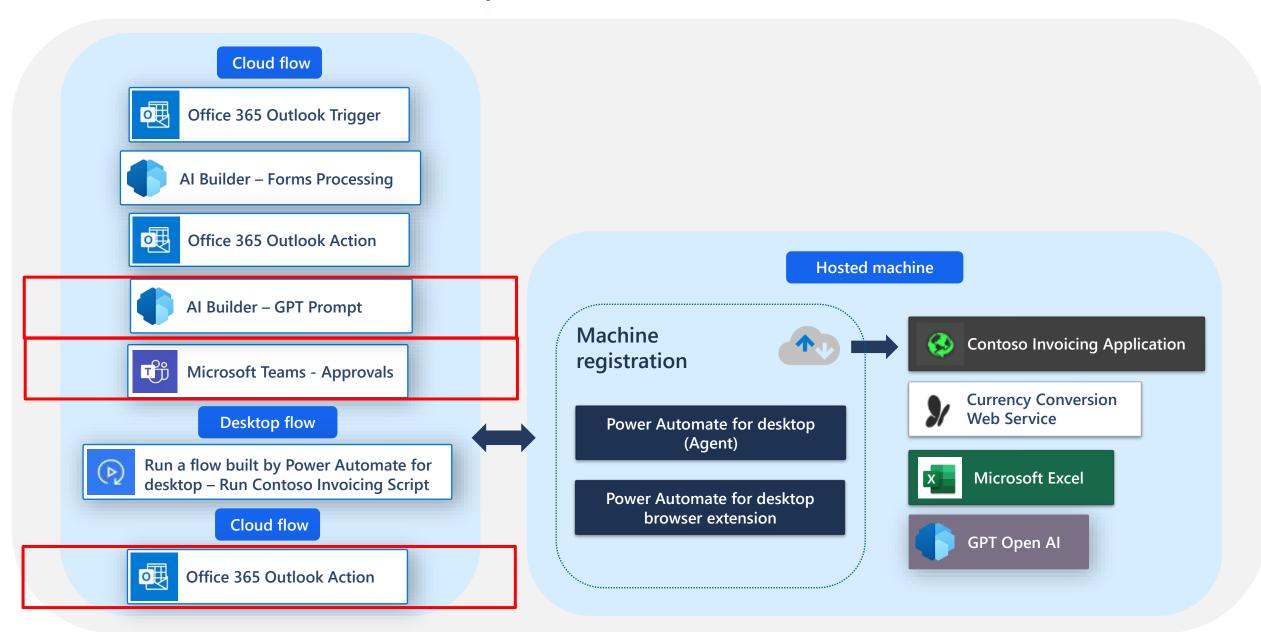
## Lab 7 Integration with Teams for Approvals

30 minutes

## Why we need to invite Human into the automation process



### Where are we in the scenario, in this Lab?



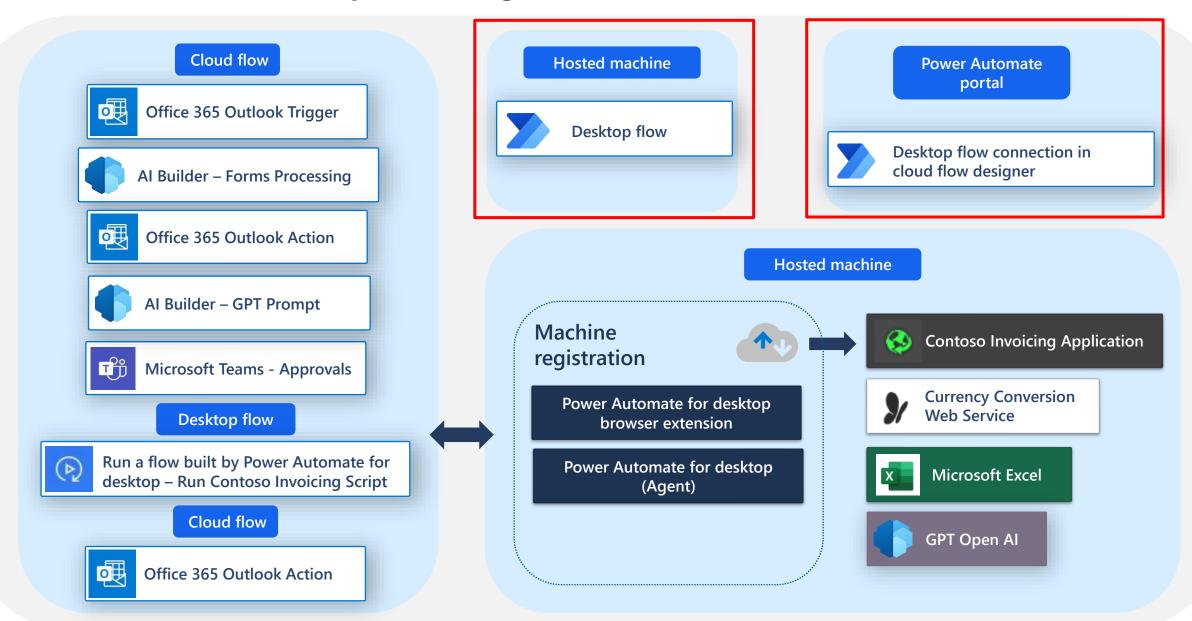
## Part V Scale your automations and infrastructure

Ken Seong Tan

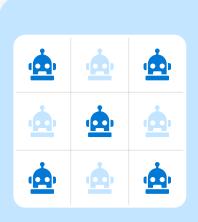
# Lab 8 Unattended Automation and Work Queues introduction

30 minutes

## Lab scenario – Invoice processing Solution Architecture



## Scale your workloads with hosted RPA



#### Single hosted machines

For pro and citizen developers

Build or test automation

For business users

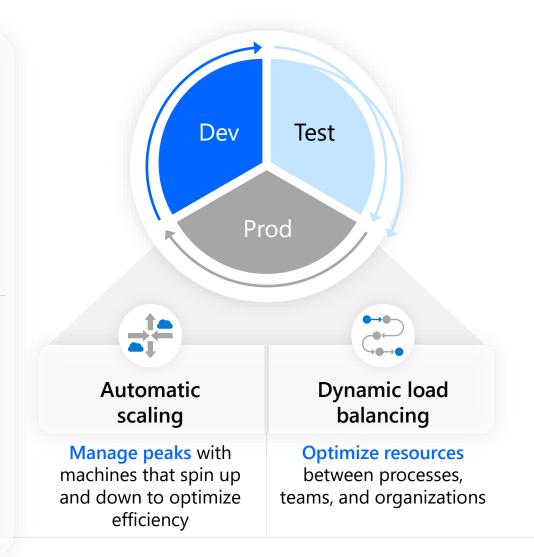
Run automation on dedicated machines



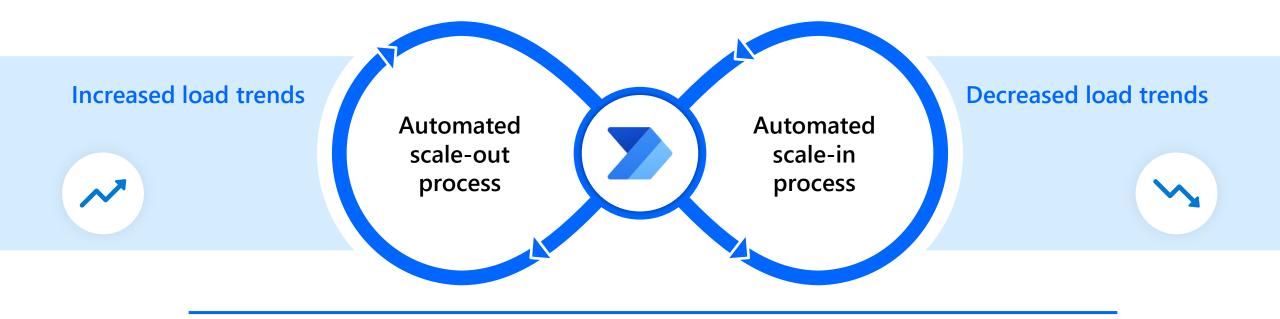
#### **Hosted machine groups**

For unattended automation in production

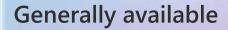
Optimize your resources for higher efficiency and lower cost



## Hosted machine group: Unattended load-management



- → Hosted machine group are automatically scaled-out/in based on real-time load
- → The number of allocated capacity in an environment are **dynamically load balanced across the environment** ensuring available machines are efficiently utilized between hosted machine groups

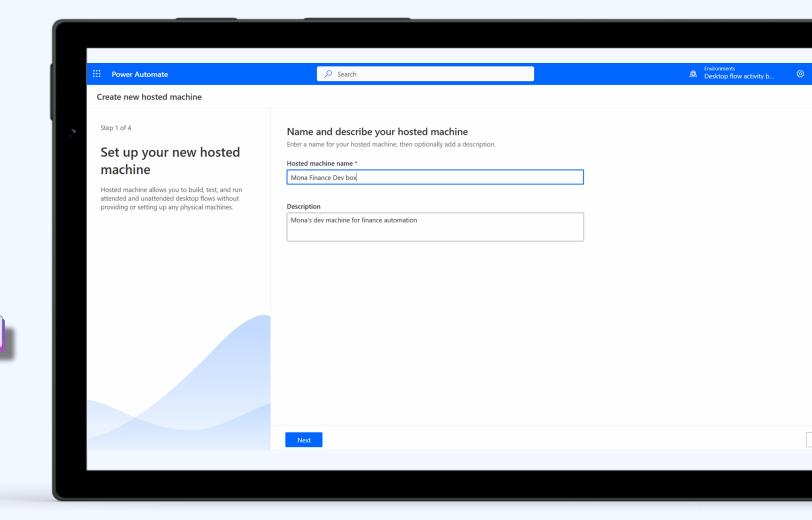


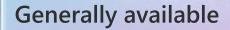
#### Hosted RPA – Hosted machines

Desktop automation infrastructure fully hosted by Power Automate

#### Seamless setup and orchestration

- No need to install or register Power Automate for Desktop
- Custom VM images to provision machine with specific applications & configuration
- BYO VNet support to connect to your local resources
- Microsoft Entra hybrid join
   Support to connect to your AD domain



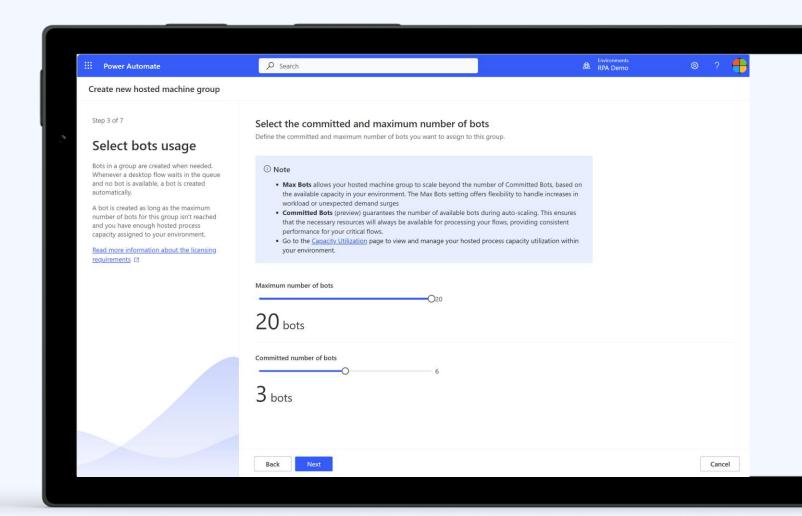


### Hosted RPA – Hosted machine group

Auto-scaled desktop infrastructure fully hosted by Power Automate

#### Seamless setup and orchestration

- No need to install or register Power Automate for Desktop
- Custom VM images to provision machine with specific applications & configuration
- Entra ID Join with VNet support to connect to your local resources
- Bots are automatically load-balanced based on workloads in environment



### Work queues in Power Automate



Deep platform integration, built on Dataverse

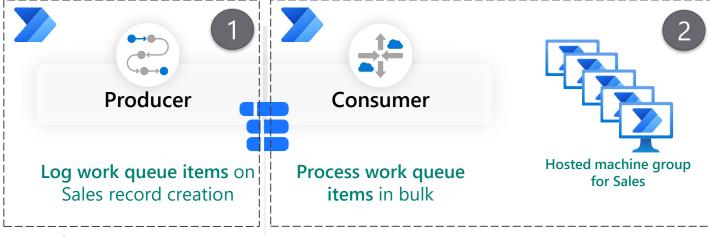
Producing or consuming work queue items can be done from wherever needed

- → DPA-ready with Dataverse connector or Web API
- → RPA-ready with dedicated PAD actions
- → **Bulk ingestion** through Dataflows



#### Business team in control

- → Sharing and access control via RBAC
- Define expiration dates and manage SLA
- → Filtering and bulk status update
- → Pause, resume, stop your work queue
- → Put items on hold or requeue them



#### Example:

- 1. Produce items using a cloud flow
- 2. Consume them asynchronously from a desktop flow

## **Unattended automation & work queues**

#### Exercise 1 – Use of hosted machine to run unattended automation

- Edit your desktop flow (and remove the Excel actions)
- o Create a new cloud flow that calls your desktop flow to run on a hosted machine in unattended mode
- o Test run.

#### Exercise 2 – Unattended automations at scale

- Create a hosted machine group
- Use this hosted machine group to run your automations at scale
- o Test run.

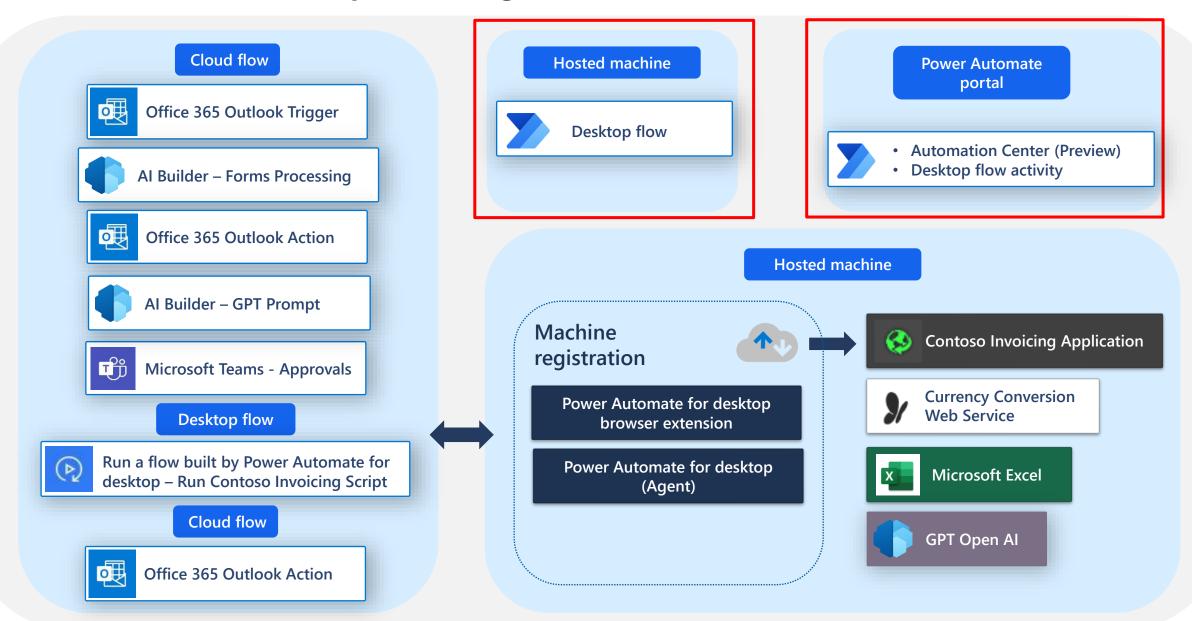
#### Exercise 3 – Work queues

- Send an invoice via email to create a work queue
- Observe that the consumer cloud flow triggers a desktop flow run and marks the work queue item as processed once completed

## Lab 9 Monitor or troubleshoot your automations

30 minutes

## Lab scenario – Invoice processing Solution Architecture

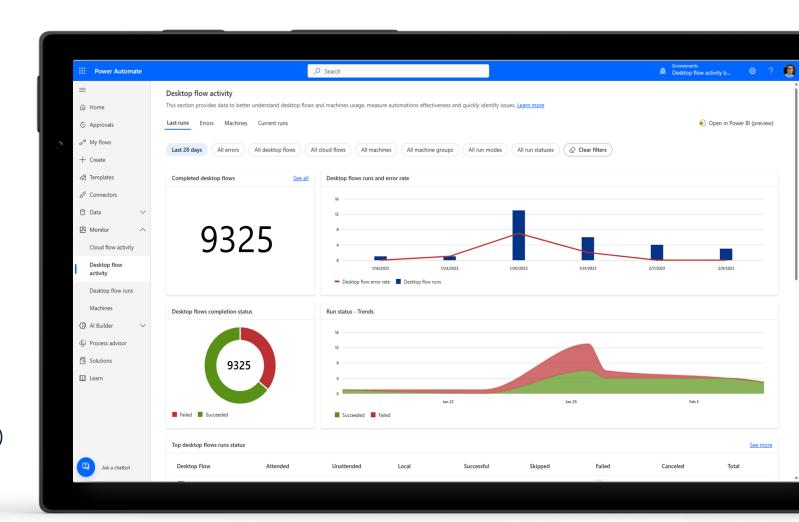


## Desktop flow activity

## Single pane of glass of all desktop automations in the environment

"Last runs", "current runs", "errors" and "machines" views

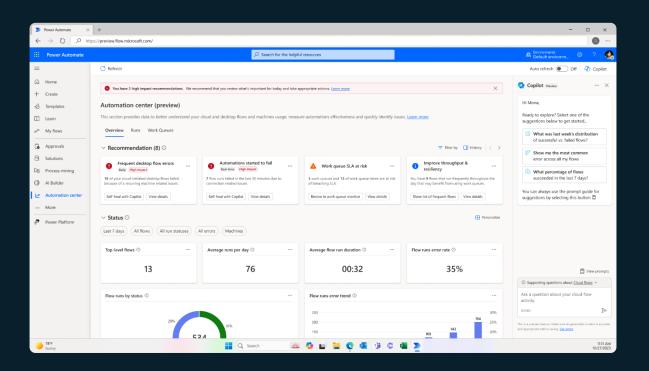
- Developers get support while building their automations
- Automation CoEs can monitor deployed automations
- → Automation CoEs can monitor all machines registered in the environment (on-prem or hosted)
- → Customizable Power BI template (Preview)





## **Automation Center**

Now in public preview



Flow analytics and insights across your automations

Actionable recommendations to more easily prioritize and address critical issues

Integrated copilot to answer the questions you have about your automation health

## Part VI Copilot free lab

## Copilot – Free lab (15 minutes)





## Build, monitor and govern RPA with Copilot

#### **AI Builder GPT**

Easily add content processing and content generation capabilities like email classification or summarization



## Help me understand

Ask any question from PAD, Cloud flow Designer or Automation center



Copilot can help you generate DOS, VBScript, JavaScript, PowerShell or Python scripts in PAD

#### **Next Best Action**

Recommends you the next action to add in your desktop flow script



#### Flow definition

Generate a clean description of your desktop flow



#### Al Recorder

Next-generation Desktop automation creation. Show and tell Copilot what you want to automate.



New!

#### Natural language to Desktop flow

Simply type in what you want to automate, and Copilot will generate it for you with proper commenting



New!

## How to write a good prompt

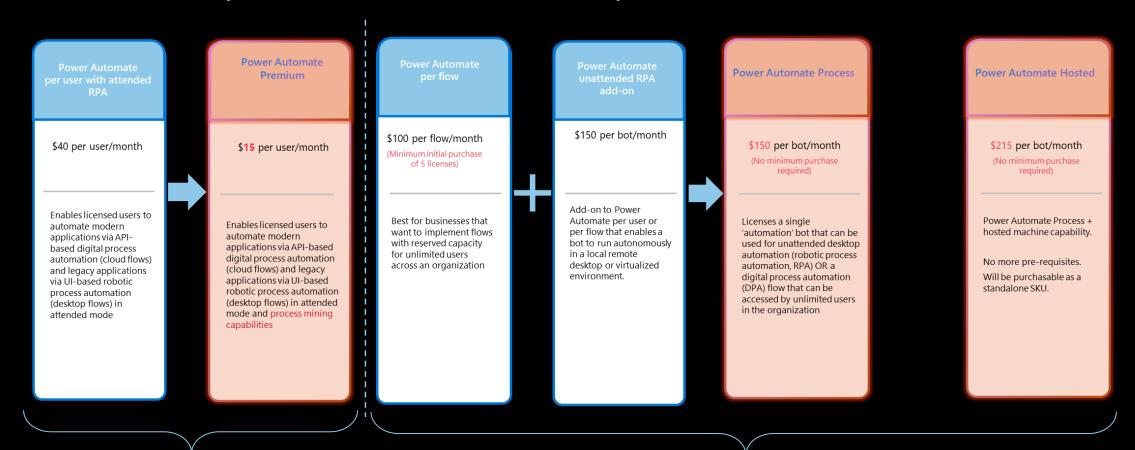
If the initial results aren't what you're looking for, try adjusting your prompt and running it again.

- •Be as specific as possible. Instead of a generic prompt like, *Email an Excel file*, try the following prompt instead:
  - Send an email to sales@contoso.com from the account accounting@contoso.com with subject "Contoso sales data" and attach the Excel file in "C:\contoso\contoso.xlsx"
- •Try tweaking your prompt to further fine tune.

## Part VII Closing

## Licensing simplified

- 1 single per user license.
- 2 bot licenses (with or without a hosted machine).



## Thank you!

Help us improve, your feedback is critical.

4 minutes to fill in the survey: https://aka.ms/ppcc-pau-survey



**PPCC 2024 - Power Automate** 

Q&A

## **Upcoming Intelligent Automations sessions**

DAY / TIME	SESSION TITLE

#### September 18

2:00pm – 3:00pm	Copilot beside me along my RPA journey
3:45pm - 4:45pm	Revolutionize the way you work with Power Automate and Al

#### September 19

8:00am – 9:00am	Supercharged organization Adopting Process mining at scale
9:15am – 10:15am	Migrating to Power Automate for desktop
11:15am – 12:15pm	Extend Copilot Studio with intelligent actions, workflows and Power Automate
2:00pm – 3:00pm	Automate Cloud Flows deep dive

#### September 20

10:15am – 11:15am	The ultimate guide to collaborating with Copilot in Power Automate
1:00pm – 2:00pm	Managing automation estate at scale
2:15pm – 3:15pm	Power Automate architecture deep dive
3:45pm – 4:45pm	Advanced document processing with Al and GPT

Thank you!