

Empowering RPA enthusiasts: "Harnessing the potential of Power Automate"

Speakers

John Anastasopoulos Mustapha Lazrek

Christine Jefson
Gautier Chastan
Joe Fernandez
Soufiane Loukili
Dieter De Cock
Jay Padimiti
Ashwin Raju Krishnamurthi
Grant Archibald

- 1. Go to https://aka.ms/mppc23-rpa-labs
- 2. Start lab 1 (pre-requisites)

Welcome!

Workshop account password: "Mppc23rpa"

If you're having issues installing the app on your machine, please let us know

Module	Timing	ID	Session	Lab	Timing
Part 0: Pre setup work office hours	8:00 - 9:00	0	Environment and account check. Setup lab, troubleshooting		60 minutes
Workshop officially starts here					
Part I: Introduction	09:00 - 9:30	1	Lab prerequisites 1 – Install required software	Lab 1	30 minutes
	9:30 - 09:50	2	Introduction to RPA, Power Automate and Desktop flows		20 minutes
Part II: Desktop flows basic	09:50 - 10.20	3	Create your first Power Automate Desktop flow	Lab 2	30 minutes
	10:20 – 10:50	4	Use input and output parameters	Lab 3	30 minutes
Break (10 minutes)					
Part III: Desktop flow Web and Office integration	11:00 – 12:00	5	Subflows, Excel and Web automation, AIBuilder with GPT action	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	8	Intelligent automation: AI builder	Lab 6	30 minutes
		9	(Optional) Integration with Teams for Approvals	Lab 7	30 minutes
Break (10 minutes)					
Part V: Scale your automations and infrastructure	14:10 - 14:40	10	Hosted machines and unattended automation	Lab 8	30 minutes
	14:40 - 15:10	11	Monitor or troubleshoot desktop flow runs and machines	Lab 9	30 minutes
Part VI: Closing	15:10 - 16:00	12	Licensing update, Q&A		50 minutes

Part I Introduction

Lab 1 Prerequisites - Install required software

30 minutes

Microsoft Power Platform

The world's most complete set of integrated, low-code development tools



Power Apps

for web and mobile application development



Power Automate

for process or workflow automation



Power Virtual Agents

for chatbots and conversational agents



Power Pages

for building secure, data-centric business websites



Power BI

for data exploration, analytics and reporting



Data connectors



Al Builder



Microsoft Dataverse



Power Fx



Managed Environments



Microsoft Power Automate

The world's most complete intelligent automation solution

now with AI copilot powered by GPT











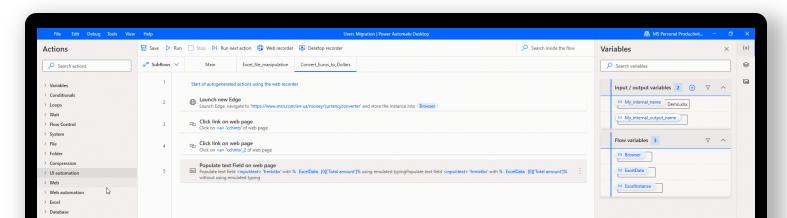
Digital Process
Automation (DPA)
allows resilient, cloudnative automation
through the creation
of cloud flows

Business Process
Automation (BPA)
streamlines complex
processes for end
users at scale

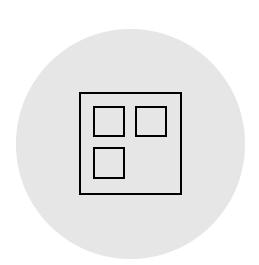
Robotic Process
Automation (RPA)
uses robots that
emulate human
actions to automate
activities

Al Builder
creates intelligent
automated
workflows

Process/Task Mining
enables users to
visualize processes
and gain deep
insights into
opportunities to
optimize

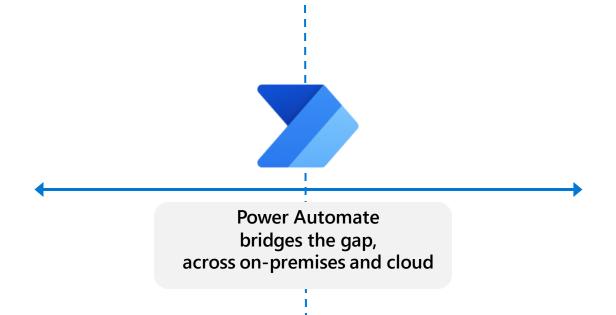


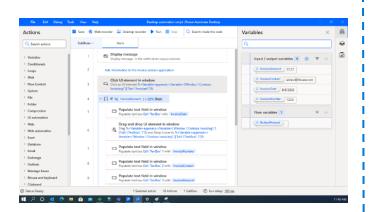
Power Automate: Cloud and Desktop flows

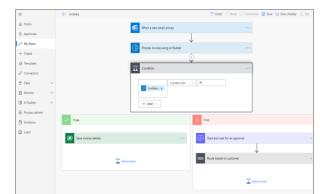


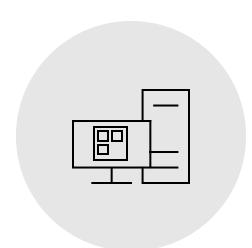
Old apps without APIs

Desktop flows RPA





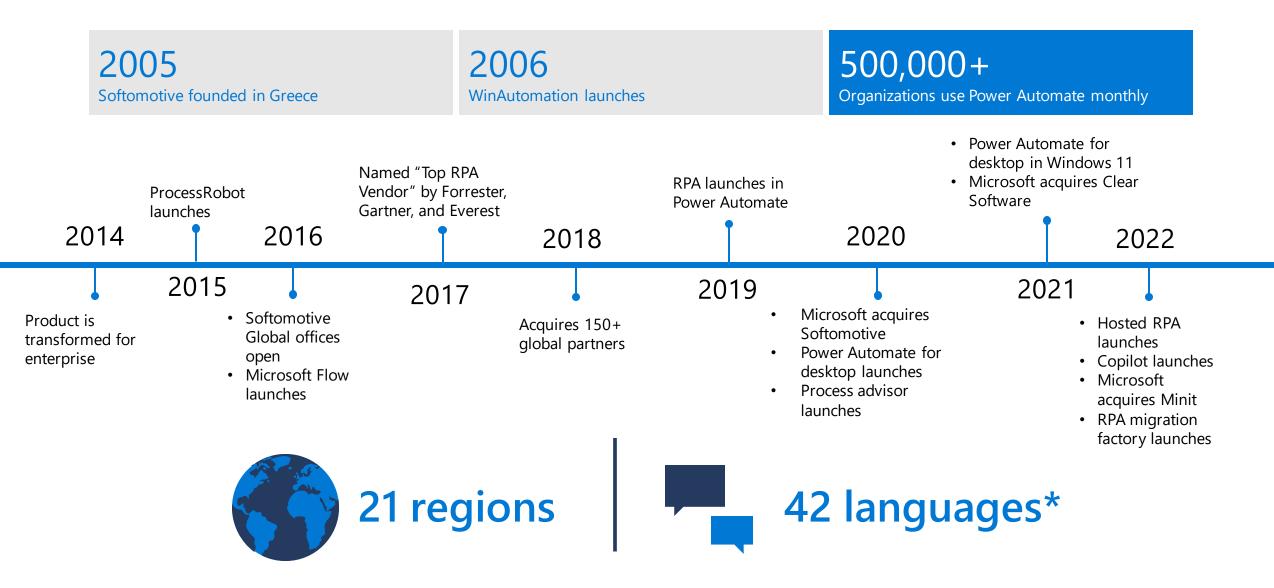




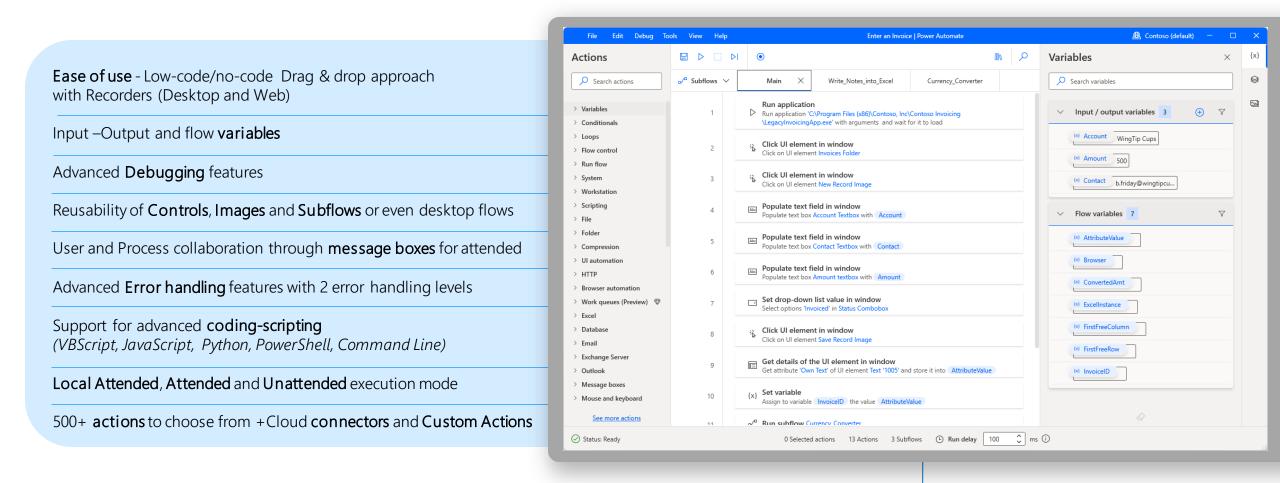
Modern Systems with APIs

Cloud flows DPA

17+ years of RPA experience



Introducing Power Automate desktop flows



...and more

What sets us apart



Infuse AI, including GPT and Microsoft's AI capabilities, into business processes for a differentiated intelligent automation

Lowest price and most citizenfriendly experience + pro-dev enablement with governance that responsibly empowers both Natively integrated with seamless extensibility to central governance and collaboration for complete enterprise security and trust

87% of chief innovation officers and IT professionals believe "increased AI and automation embedded into low-code platforms would help them better use the full set of capabilities." 1

¹ Microsoft's <u>Low-Code Signals 2023</u> report

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

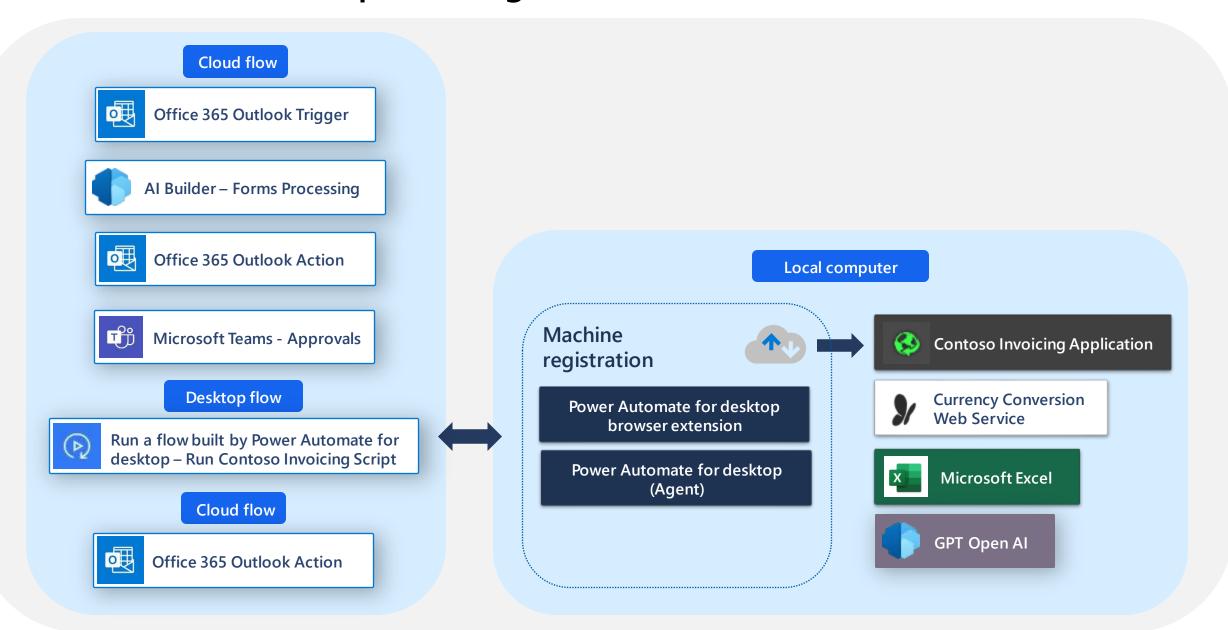


In the Desktop flow a webbased real-time currency conversion is used and an audit log is captured in Microsoft Excel



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

Lab scenario – Invoice processing Solution Architecture

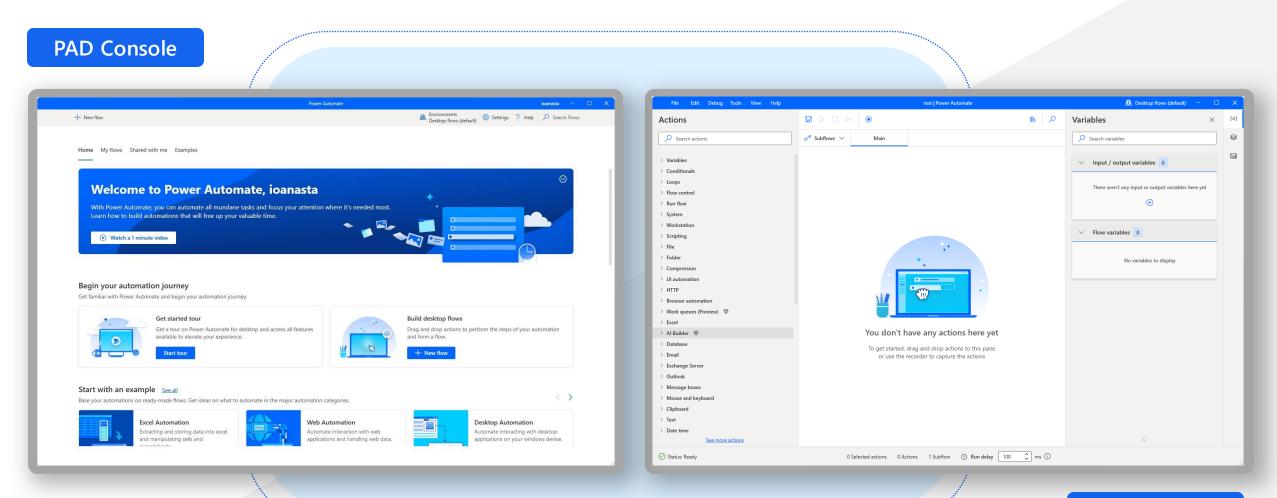


Part II Desktop flows basic

Lab 2 Create your first Power Automate Desktop flow

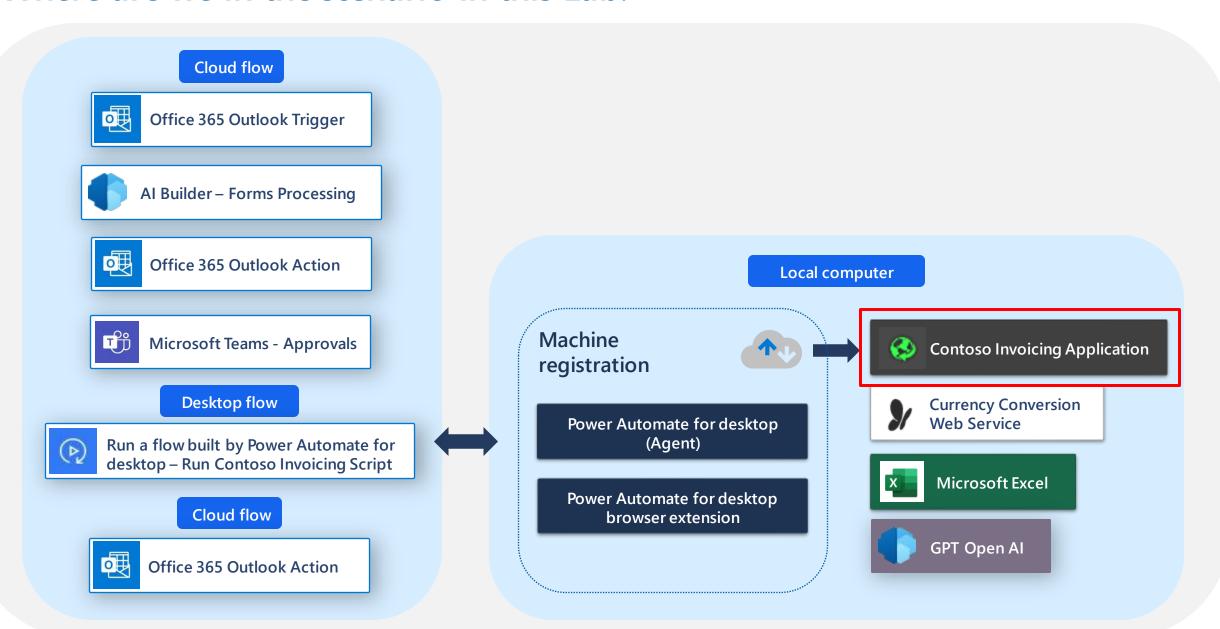
30 minutes

Power Automate for desktop



PAD Designer

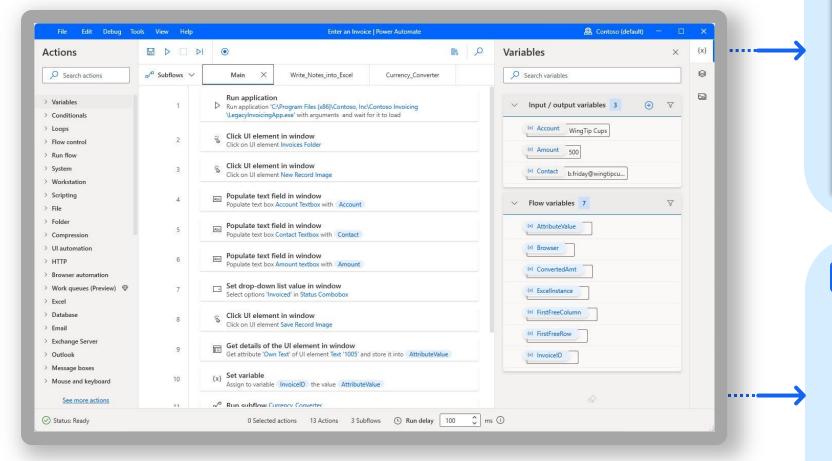
Where are we in the scenario in this Lab?



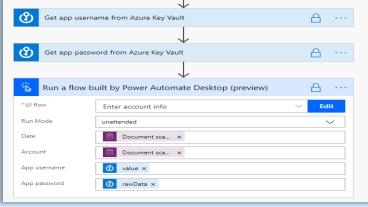
Lab 3 Use input and output variables

30 minutes

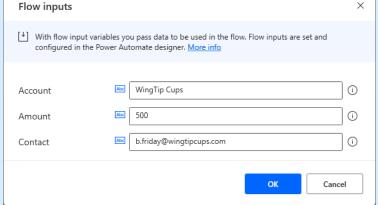
Why use inputs/outputs?



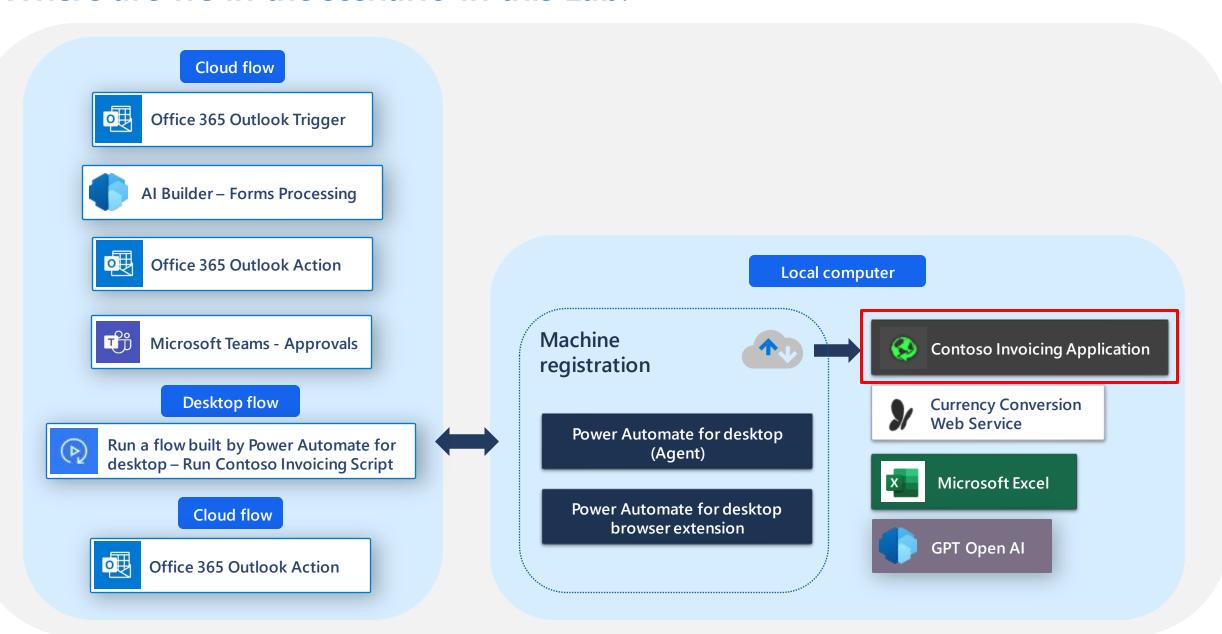
Bind them in the cloud flow that runs the desktop flow



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

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 on Azure OpenAl service to summarize the details of invoices

Subflows in Power Automate for desktop

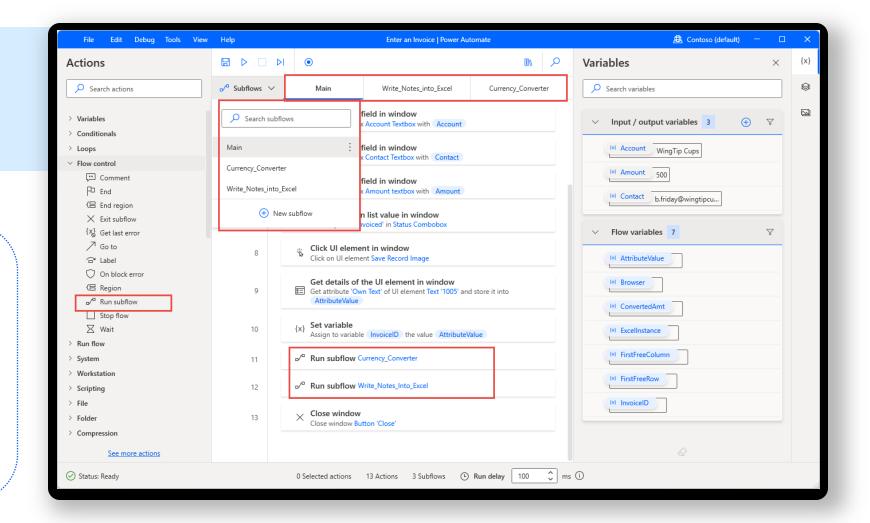
Split the logic of the flow into subflows that can be called from anywhere in your flow

Better organization

Better readability

Better troubleshooting

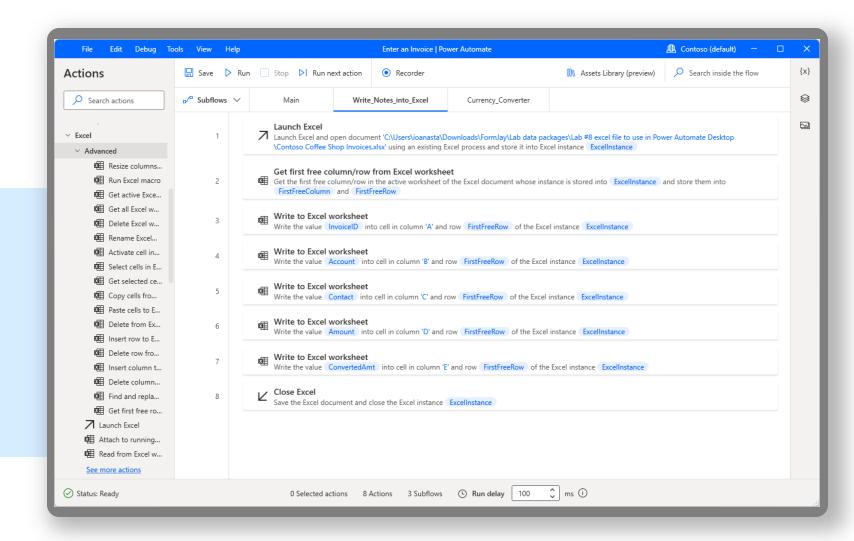
Reusability



Excel Automation



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



Web Automation



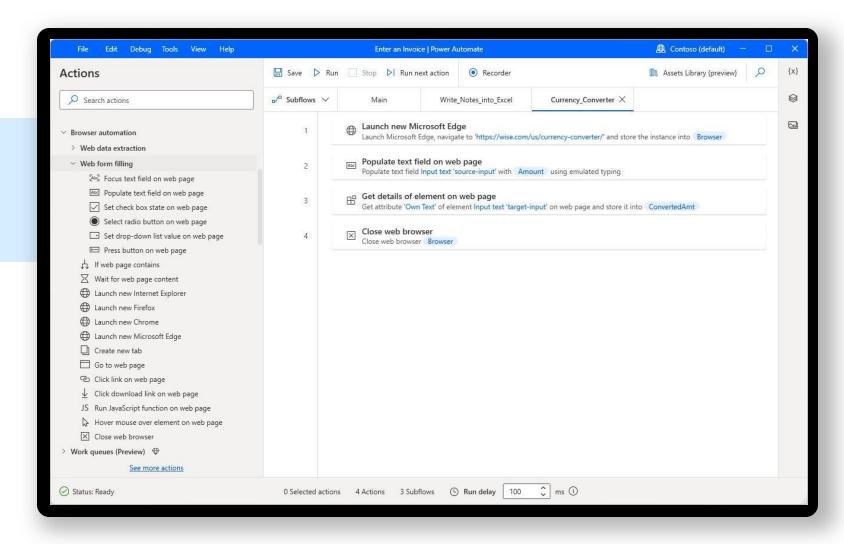
Web Automation supporting: Edge, Chrome, Firefox browsers



Web data extraction

Web data filling

And any web related activity



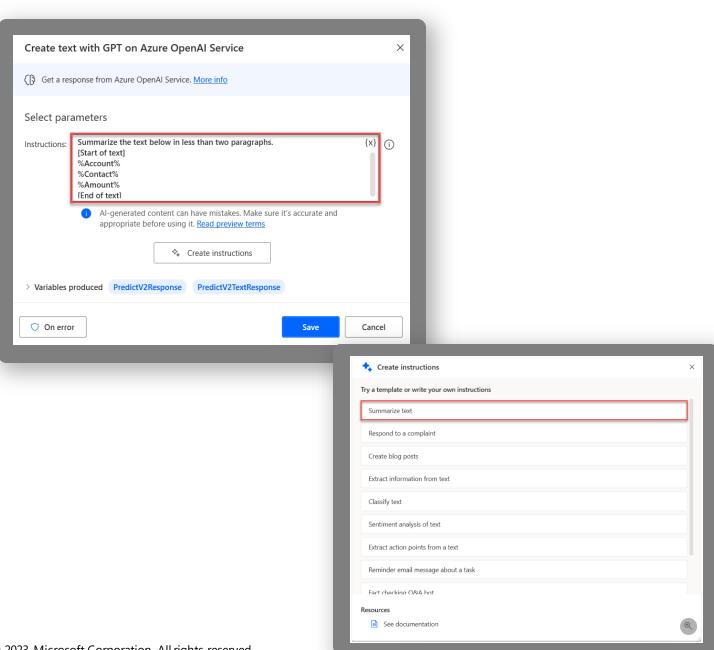
GPT on Azure OpenAl



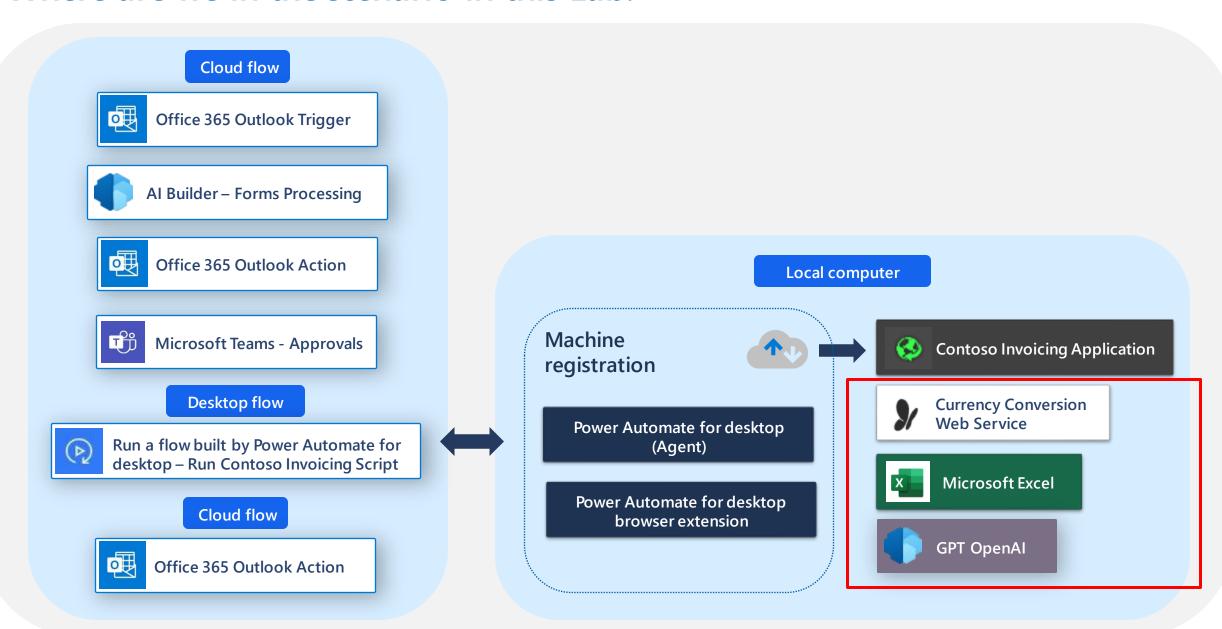
Get a response from Azure OpenAl service

Choose a template

or write your own instructions



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 (optional)

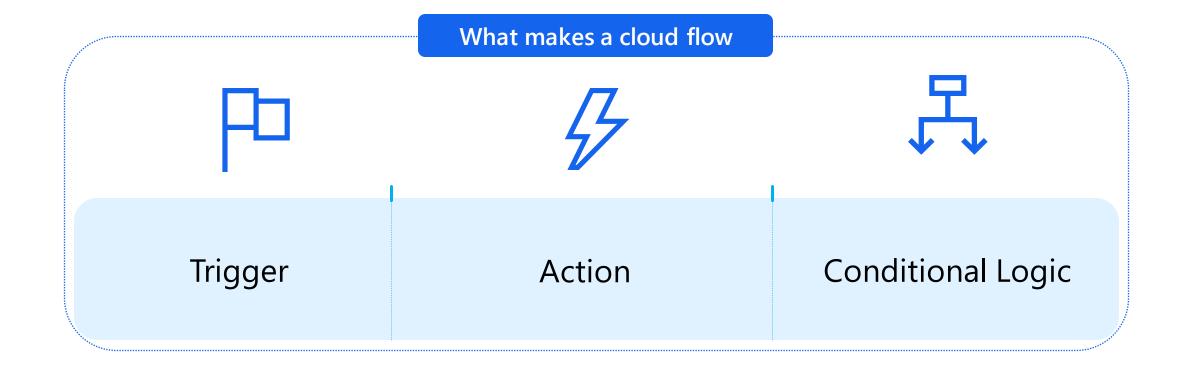
Lab 5

Cloud Integration (Outlook trigger) Machine connection and Attended execution

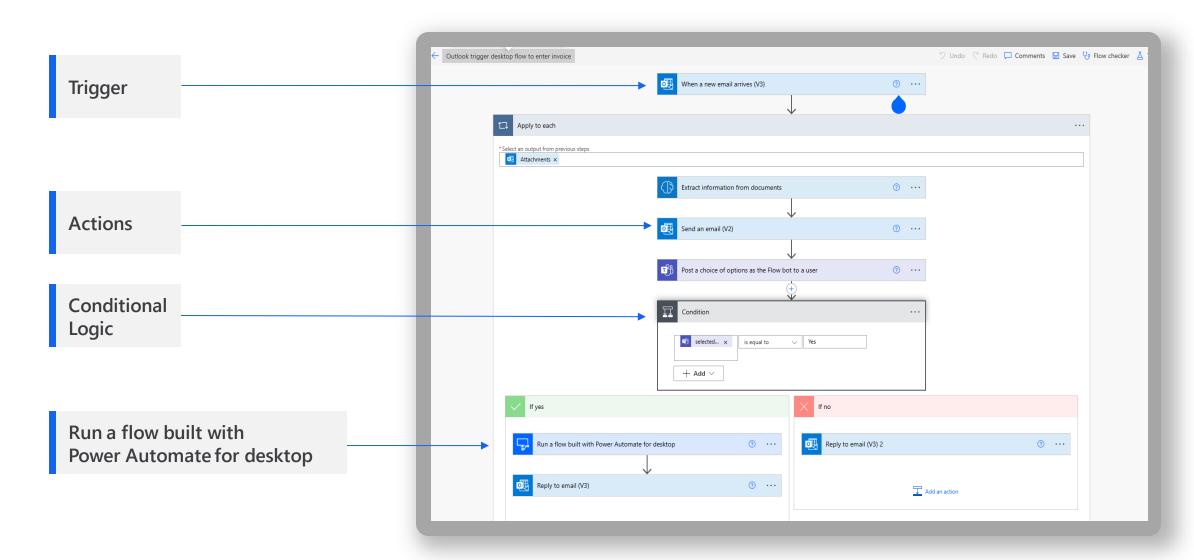
30 minutes

What is a Cloud flow?

A cloud service that allows you to automate your business process



Cloud flow: Trigger - actions - conditional logic



Machine registration/connection



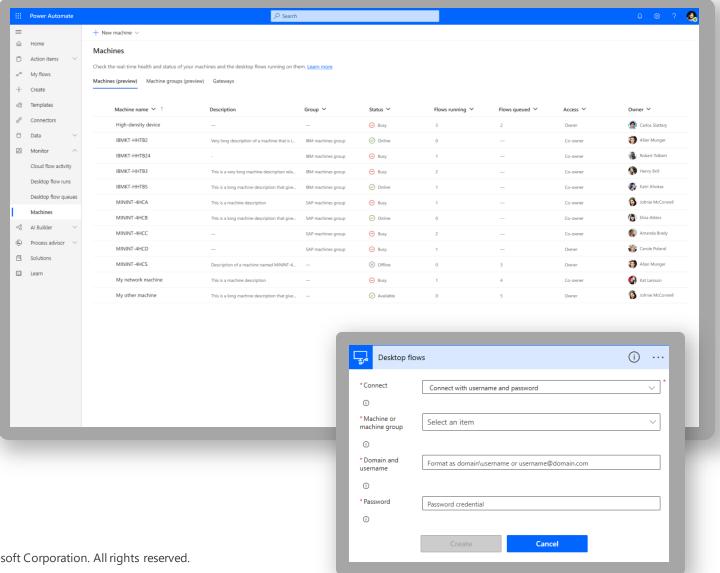
Allows cloud flow to call machines directly, without on-premises data gateways



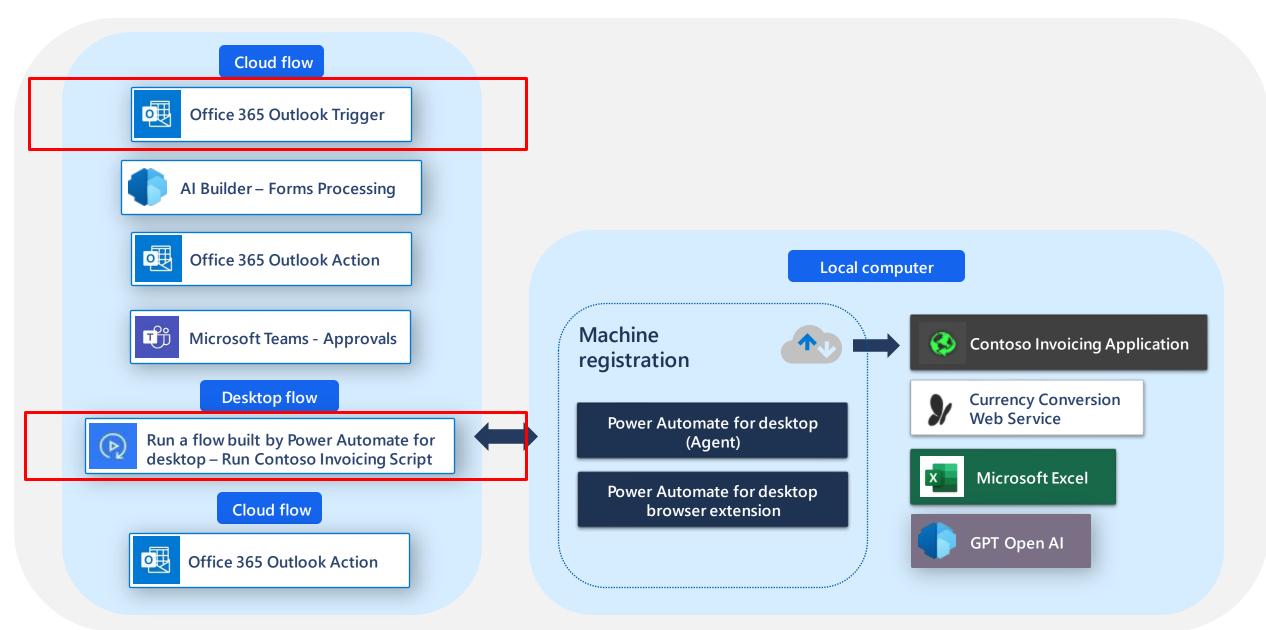
Allows cloud flows desktop flows on local machines



Once registered, can be managed from the cloud



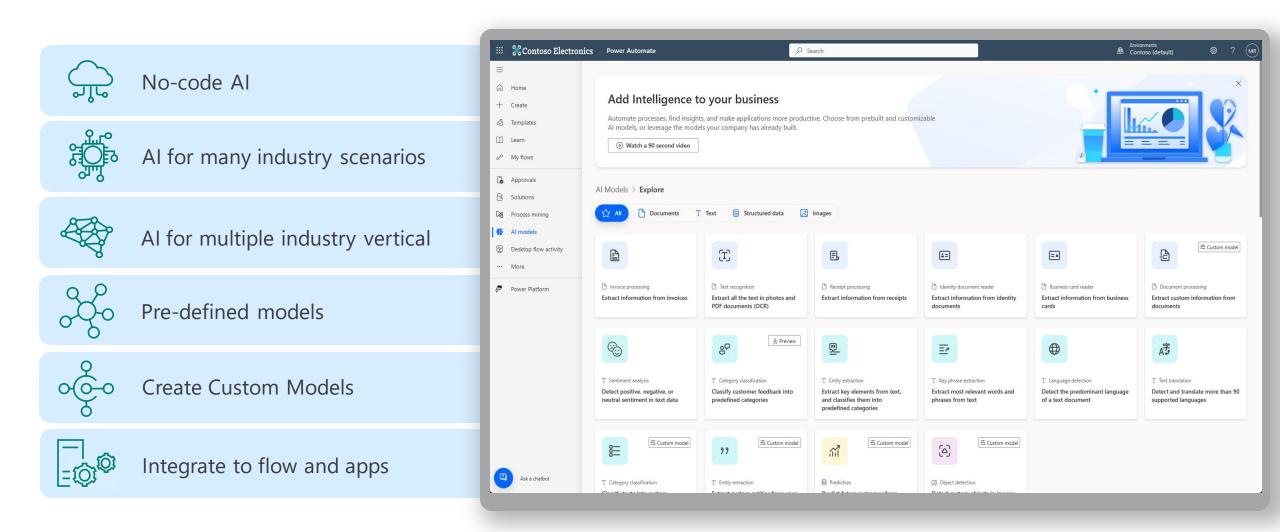
Where are we in the scenario, in this Lab?



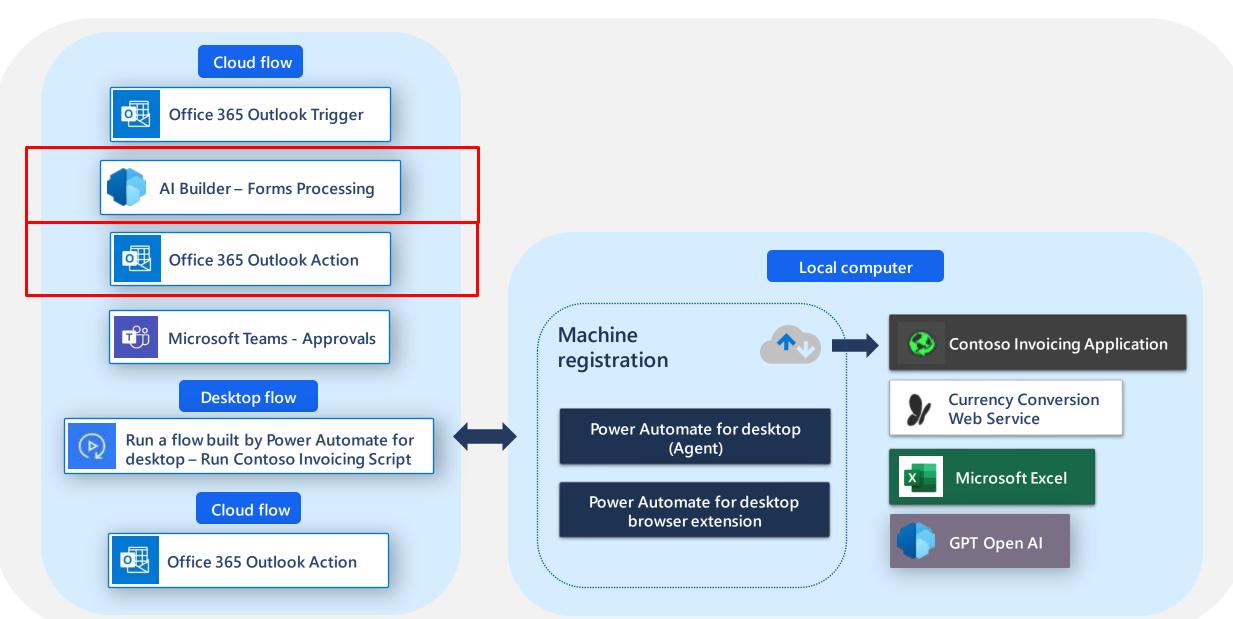
Lab 6 Intelligent Automation: AlBuilder

30 minutes

AlBuilder in Power Automate



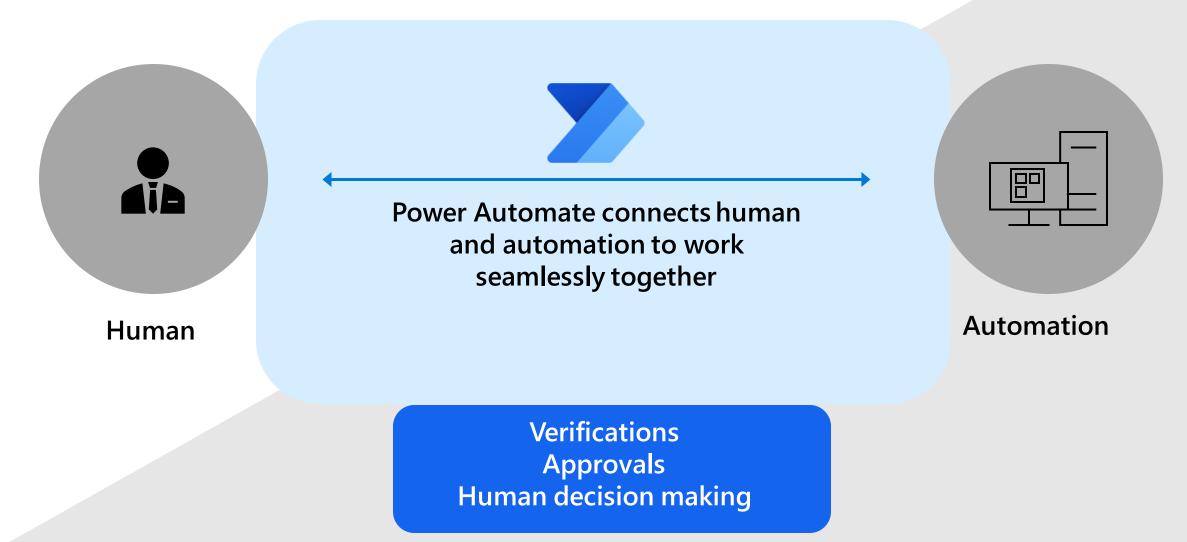
Where are we in the scenario, in this Lab?



Lab 7 (optional) Integration with Teams for Approvals

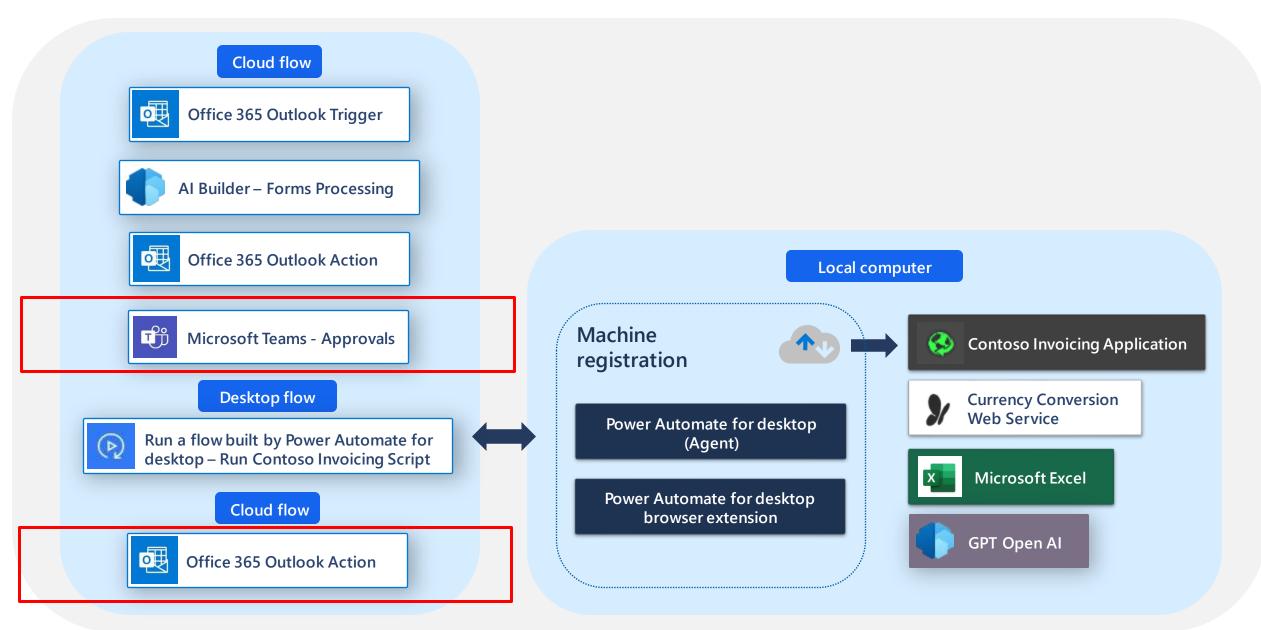
30 minutes

Why we need to invite Human into the automation process



© 2023 Microsoft Corporation. All rights reserved.

Where are we in the scenario, in this Lab?

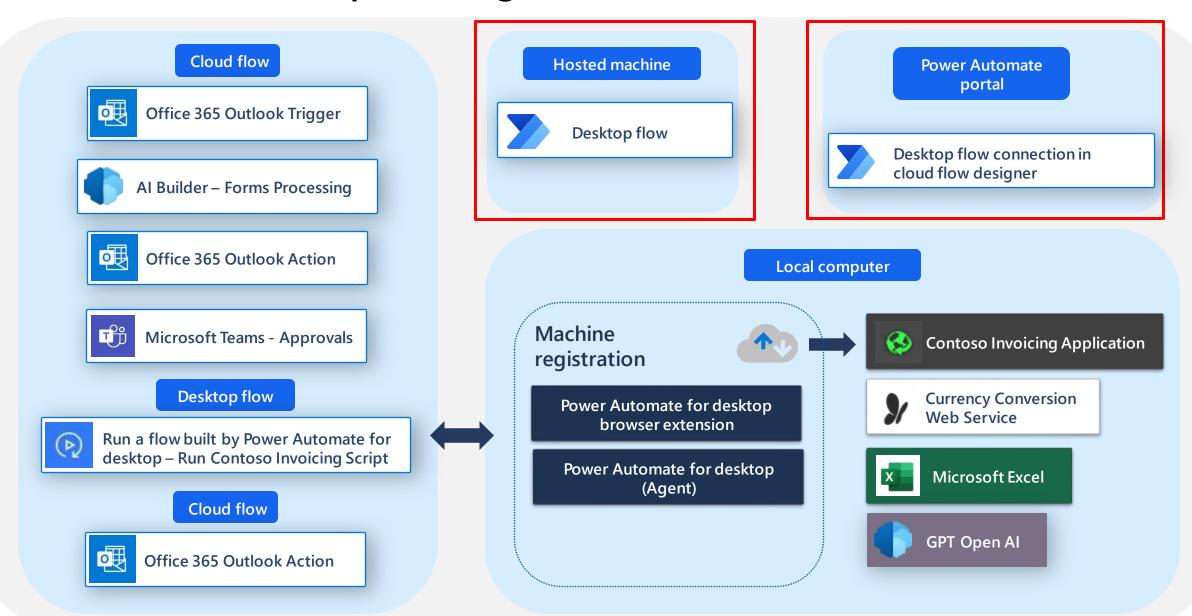


Part V Scale your automations and infrastructure

Lab 8 Hosted Machines and Unattended Automation

30 minutes

Lab scenario – Invoice processing Solution Architecture



Standardized and on demand machines for RPA

Using your own machine is sufficient for personal productivity but not beyond that.

Why? Solution

1 Best is a business process being 100% automated

Dedicated machines to run your automation fully unattended

- Automation can run 24/7 with no human errors
- Allows you to keep using your machine

2 Each automation requires its own software setup

Standardized VM images and machine configurations

- Personal/developer software can interfere with the automation
- You may not be able to install the needed software

Different hardware configuration may break your automation

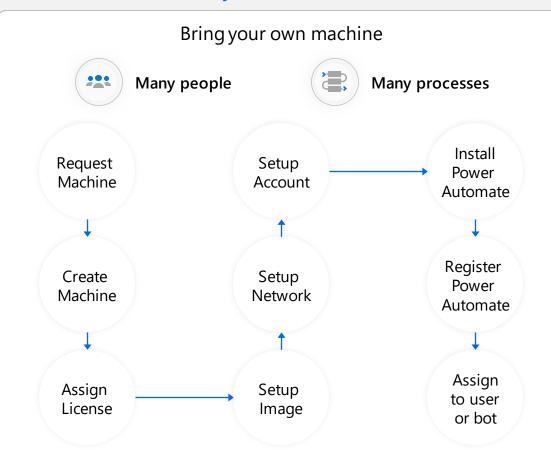
Consistent VM sizes (CPU, RAM, disk, ...) and screen resolutions

- You can't have (all) software setup on your machine
- You have other software not needed for running it

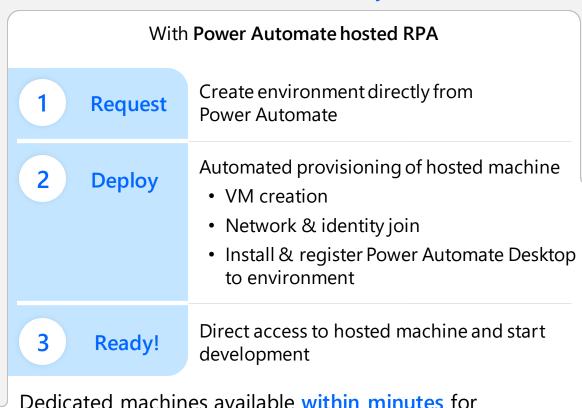
Seamless setup

Simplify and accelerate RPA machine deployment

Why make it hard?



When it can be easy!



development, testing and automation

Scale your workloads with hosted RPA



Single hosted machines

For pro and citizen developers

Build or test automation

For business users

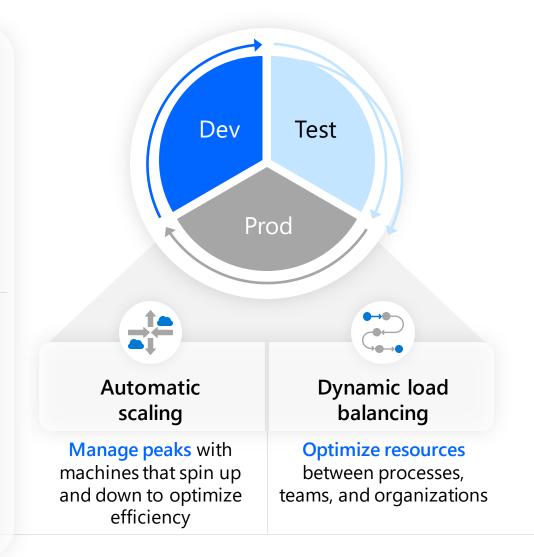
Run automation on dedicated machines



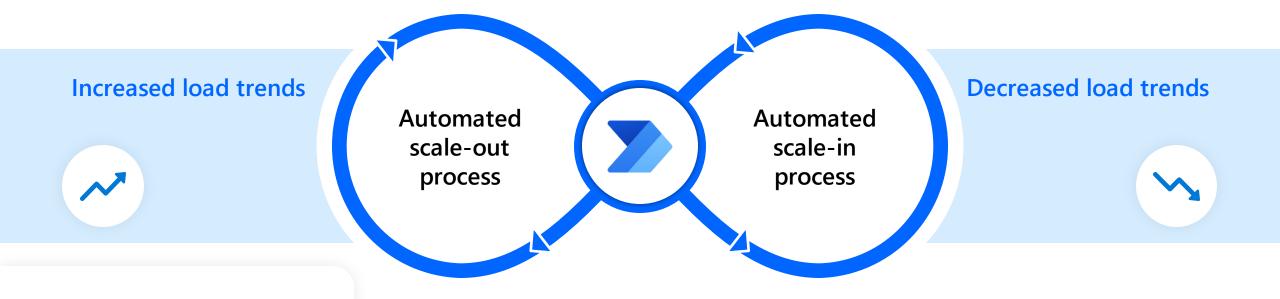
Hosted machine groups

For unattended automation in production

Optimize your resources for higher efficiency and lower cost



Hosted machine group: Unattended load-management



~10 mins to 1 hour

Average time to scale-out/in



Observations

- With hosted machine group, multiple RPA processes with varying load levels in an environment are automatically scaled-out/in based on real-time load.
- The number of allocated capacity in an environment are automatically assigned across different RPA processes, ensuring available machines are efficiently utilized

Hosted machine demo

Mustapha Lazrek

Hosted machines and unattended automation

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.

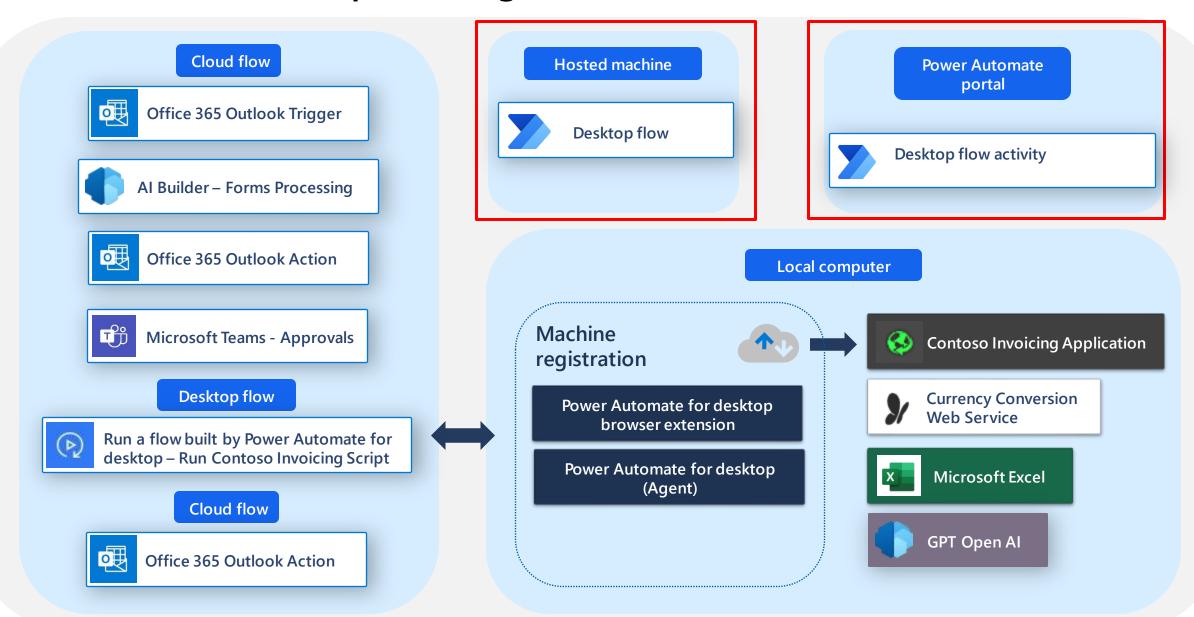
Exercise 2 – Unattended automations at scale

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

Lab 9 Monitor or troubleshoot desktop flow runs and machines

30 minutes

Lab scenario – Invoice processing Solution Architecture

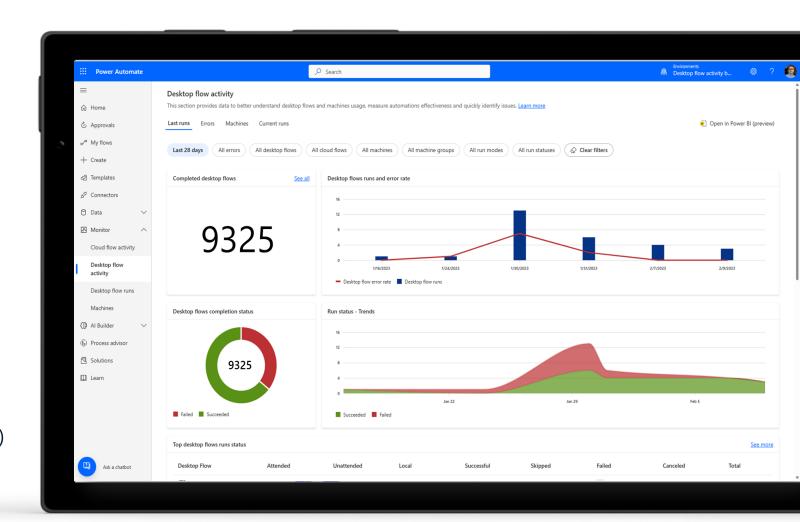


Desktop flow activity

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)



Part VI Closing

Licensing simplification

- More accessible per user license (includes attended RPA)
- No need to choose between RPA and DPA, unique process license for both
- Hosted RPA makes it simpler by providing the infrastructure on top

\$15

Power Automate Premium

per user/month

Enables licensed users to automate modern applications via API-based digital process automation (cloud flows) and legacy applications via UI-based robotic process automation (desktop flows) in attended mode.

- Unlimited cloud flows (DPA) and desktop flows (RPA) in attended mode
- 50 MB Power Automate Process Mining data storage¹
- . 5,000 AI Builder credits
- Dataverse entitlements of 250 MB database and 2 GB file

Power Automate Process

\$150

per bot/month6

Licenses a single "automation" bot that can be used for unattended desktop automation (RPA), or a digital process automation (DPA) flow that can be accessed by unlimited users in the organization.

- · Cloud flows (DPA)
- · Desktop flows (RPA) in unattended mode
- Dataverse entitlements of 50 MB database and 200 MB file

Hosted RPA

\$215

per bot/month6

Run robotic process automation (RPA) as a service with hosted machine options.

- · Microsoft hosted machine
- Desktop flows (RPA) in unattended mode
- 5,000 Al Builder service credits per month

Available as an add-on for:

• Power Automate Premium

Tenant-level user license

- For attended use
- For user or developer scenarios

Environment-level bot license

- For unattended use
- **Process**: for DPA or RPA with on prem machine (1 per Windows session)
- **Hosted RPA**: for RPA with on hosted machine

Don't miss the upcoming:

Sessions:

- [Tues] Enable your automation COE to Modernize to Power Automate
- [Tues] Achieving RPA ROI and Control with Power platform automation kit: A 20-min walkthrough (https://aka.ms/ak4pp/mpp4)
- [Wed] Power Automate in the real world with Stephen Siciliano and Customers
- [Wed] Desktop Flows Deep-dive
- [Wed] Process Mining Deep-dive
- [Thur] The future of Cloud Automateion: A deep-dive into intelligent cloud flows

Workshops:

[Friday] Empowering Makers: Exploring Copilot/Al Capabilities in the Power Platform

[Friday] Let's Get Mining

Q&A

Thank you!