Microsoft

MTT/MCT Global Learning Day

Applying Azure OpenAI to automate the generation of quotations and invoices

Presented by: Tony Ahn

Tony Ahn | MCT | MCT Community Lead (2025) | AI, BI, Copilot

Work Experience

- Indie Garage | Founder | 2024.05 – Present
- Microsoft | Technical Trainer | 2021.10 – 2024.04
- DACON | ML Instructor & Data Scientist | 2020.01 – 2020.08

Teaching Experience

2021.10 – Present	Delivered Azure OpenAI, Azure AI, and Power BI training to approximately over 2,000 professionals in Asia, including Samsung, LG, SK, Hyundai, and KT (Korean, English)
2019.11 – 2021.06	Delivered data science education using Python for universities (students, professors) and researchers

Conference Presentations

2024.12	Analyzing 2024 Paris Olympics with Power BI	DDD Seoul 2024
2023.08	Easily produce and share content using Jupyter Book	PyCon KR 2023
2023.05	GPT Use Cases in Various Industries	6th PseudoCon
2021.05	Creating Deep Learning Tutorials on PyTorch	2nd PseudoCon
2020.12	Creating Deep Learning Tutorials on PyTorch	1st PseudoCon
2019.07	KBO pitcher scouting methodology based on StatCast data	SKBS

Agenda

- Difference in delivering training services as a FTE vs non-FTE
- Process of generating quotation and invoice
- Understanding Power Automate and Azure Logic Apps
- Main components of the flow
- Key to integration of Azure Logic Apps and Azure OpenAI

WIIFM

What's In It For Me?

- Understand the Basics of Azure OpenAI
- Explore how to integrate Azure OpenAI with Azure Logic Apps or Power Automate actions
- Understand the impact of automation on productivity and efficiency in administrative tasks

FTE vs non-FTE

- FTE
  - Salary – fixed amount of money regardless of the number of trainings
  - Decided annually
- Non-FTE (freelance, solopreneur)
  - Paid per task – earning on a per-task (hourly, daily) basis
  - Send quotation per-task and invoice when the task is finished

Process of generating quotation and invoice

Quotation

1. Open the request for quotation email
2. Rewrite the items in the email into the quotation template
3. Include estimated cost for each of the items
4. Calculate the total cost
5. Send the quotation to the PoC

Usually once or twice per month

Invoice

1. Open the excel file that tracks the deliveries
2. Identify the deliveries that I have delivered (sometimes the quoted deliveries get cancelled)
3. Rewrite them in the invoice template
4. Calculate the total amount of payment
5. Send the invoice to the PoC

Once at the beginning of every month

Estimated time per task

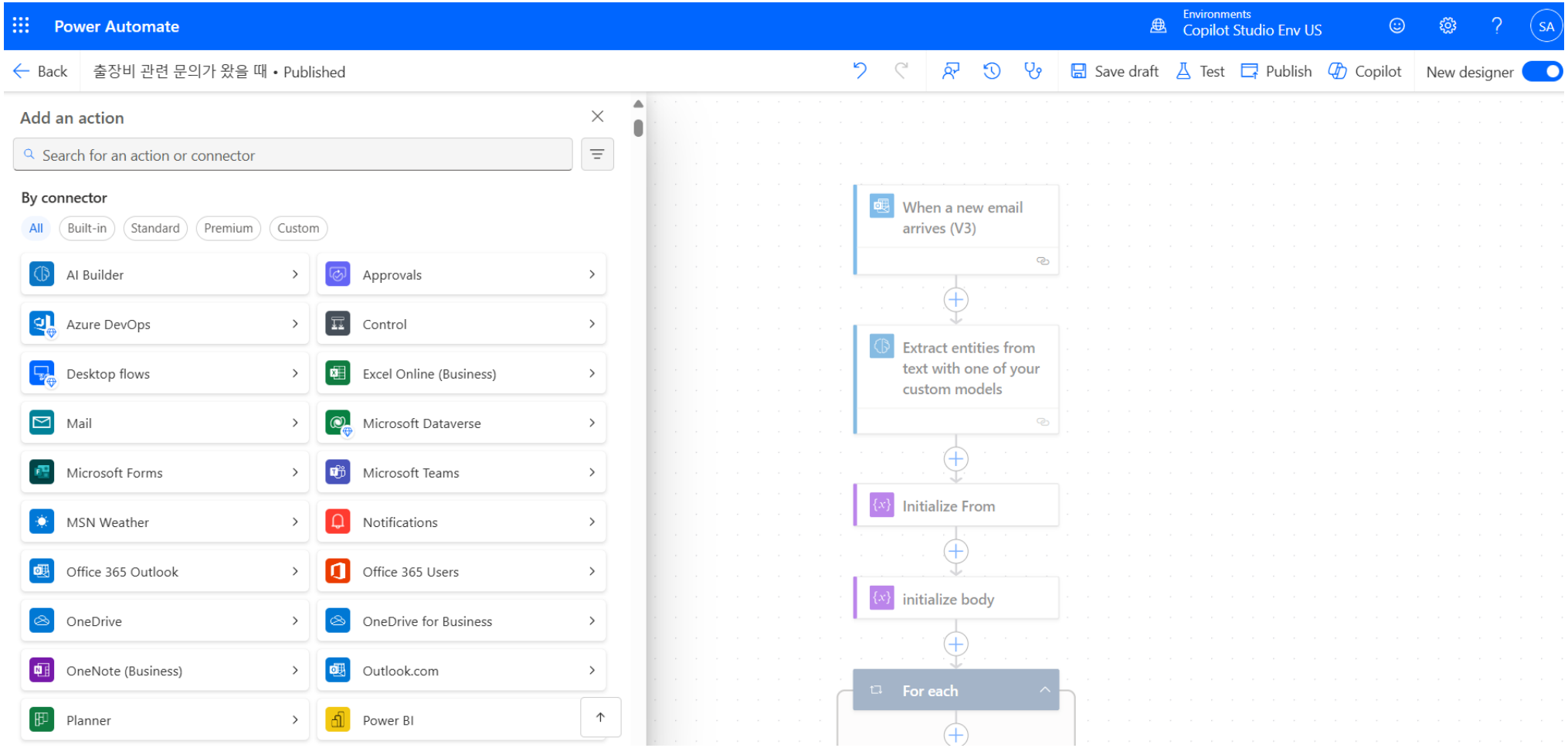
- Generating quotation: about an hour per month
- Generating invoice: about fifteen minutes
- Why take so long?:
  - Tasks aren’t done frequently, (once or twice per month)
  - Sometimes forget about how to perform the process step-by-step
  - Takes a while to think and perform relevant action

Millions of tasks that are waiting to be done…

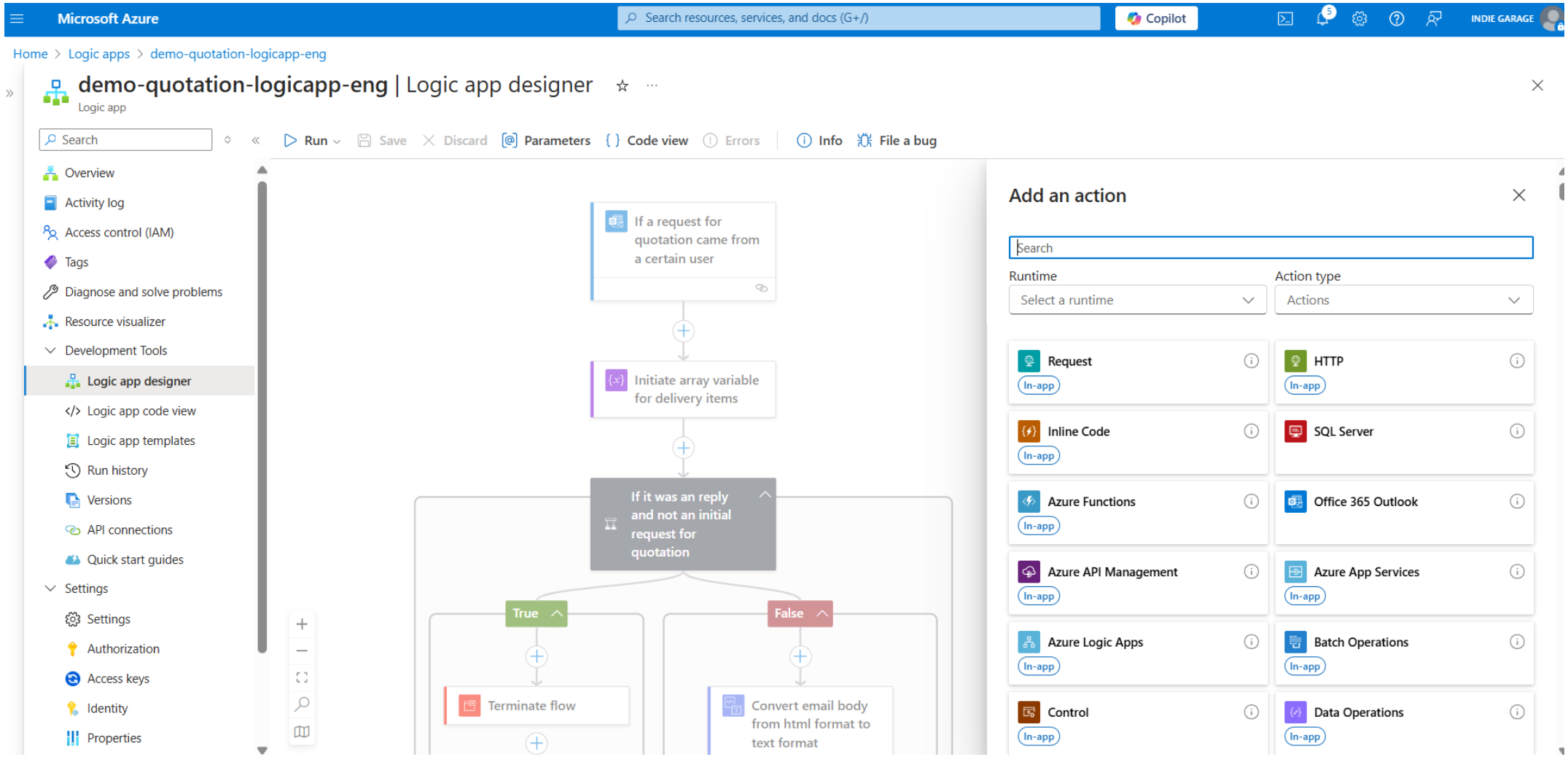
Power Automate vs Azure Logic Apps

- Business process automation tool (low code)
- Developers don’t need to think about deploying their code
  - Can focus on defining the appropriate logic for automation
- Difference in pricing

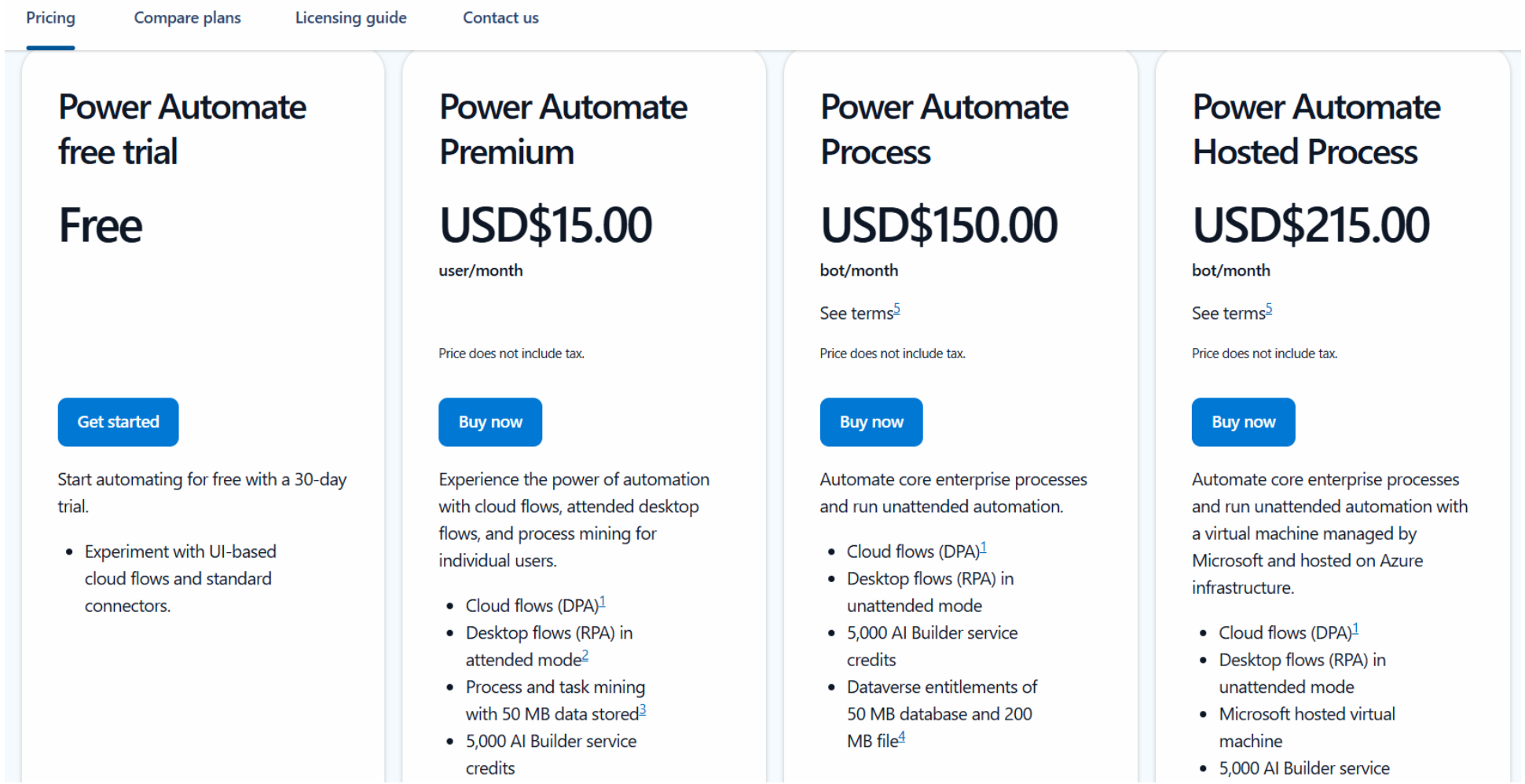
Power Automate



Azure Logic Apps



Pricing – Power Automate



Pricing – Azure Logic Apps

Every time a Logic App definition runs the triggers, action and connector executions are metered.

	Price Per Execution
Actions	First 4,000 actions free - Included **$0.000025**

Data retention: $0.12 GB/month

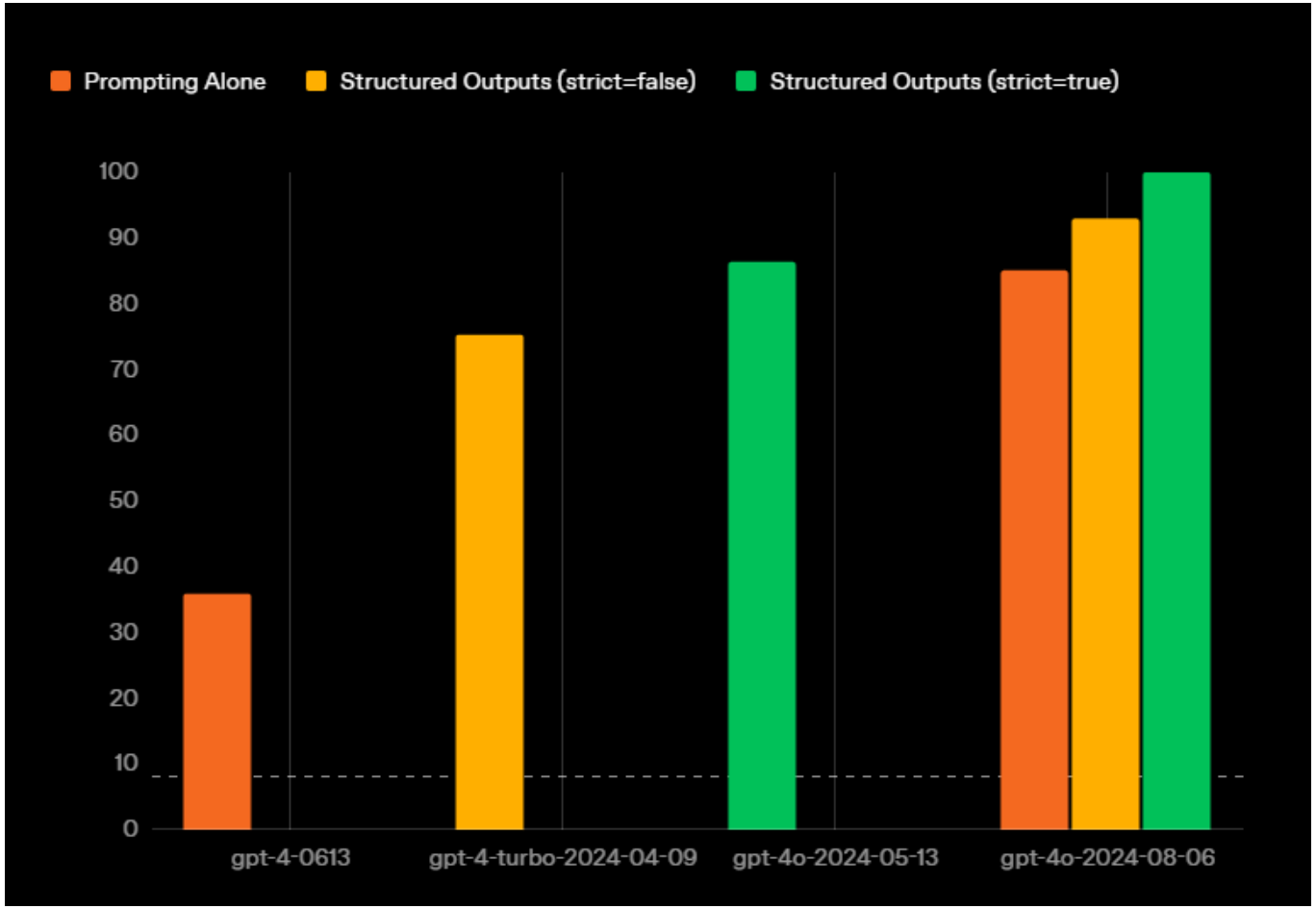
For Azure connectors, billing is based on the number of calls. Please note that number of calls may be different than number of action executions. Visit billing documentation for more details.

	Price Per Call
Standard Connector	**$0.000125**
Enterprise Connector	**$0.001**

Demo – Generating quotation

- Flow for generating quotation using Azure Logic Apps and Azure OpenAI

Structured Output feature



https://openai.com/index/introducing-structured-outputs-in-the-api/

Demo – Generating invoice

- Flow for generating invoice using Azure Logic Apps

Boost in productivity

- From 75 minutes to less than 10 minutes
- About 86% decrease in time spent

Microsoft

Thank you

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ευχαριστώ Salamat Po متشكرم شكراً Grazie

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