

# Improving the operational productivity of cloud support team with Textual



Piti Champeethong

**19-June-2025**



# About Me

Call me **Fyi (ไฟ)** from **TH**

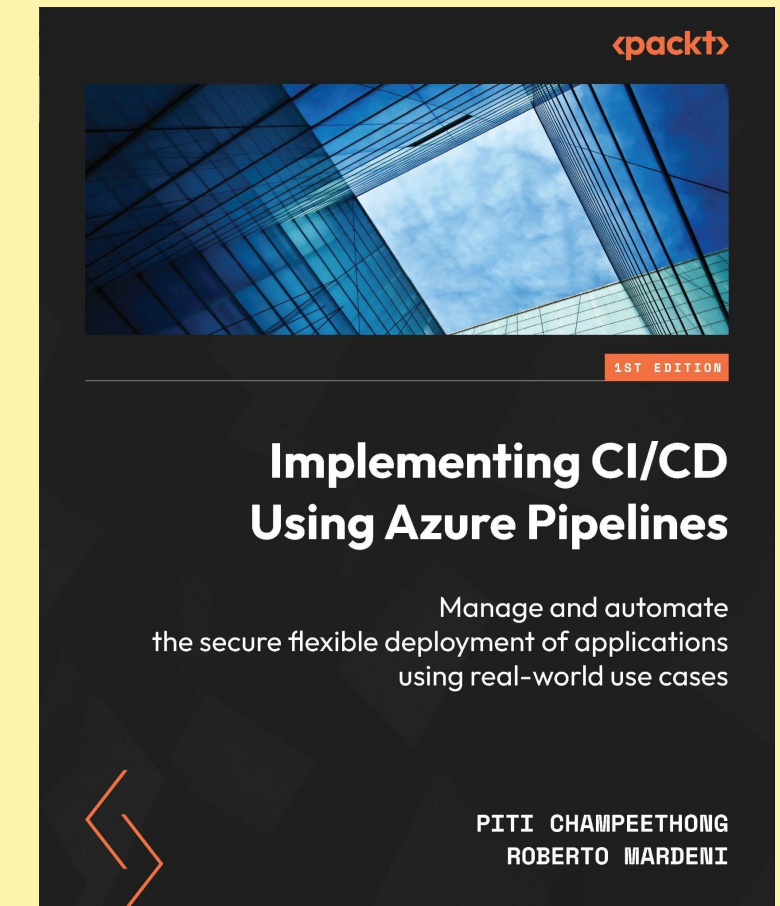
I'm a **MongoDB** senior consulting engineer based in **SG**

**Microsoft MVP: Developer Technologies**

**PyCon Thailand Committee Team**

Author: **Implementing CI/CD Using Azure Pipelines: Manage and automate the secure flexible deployment of applications using real-world use cases**

Repo: <https://github.com/ninefyi>



# Agenda



- Why is matter?
- The Textual framework.
- Case study: Wrapping Microsoft Graph Rest API using Textual.
- Key takeaway
- Q&A

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# Why is matter?



- Terminal is a daily workspace.
- Faster Troubleshooting.
- Reduces Tool Hopping.
- Low resource, High impact
- Bridges the Gap between scripts and UX

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# The Textual framework



- Cross-Platform Compatibility
- Rapid development
- Remote SSH compatibility
- Customizable (CSS, Layout, and Widgets)
- MIT License

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# Azure App Registration Secret Manager

Status: Loaded 22 app registrations

## App Registrations:

Name	ID	Key	Exp	Days	Urgent
sp-aks	01a45ce7-4bab-42f7-89e5-0da79b136a8e	50ab0c41-8d0c-47b0-b172-3b9100d83942	27-10-2121	35193	NO
sp-devops	1b7303b0-6acb-4f22-9311-76e2e8e6d07c	cf9f0380-ee6d-46a9-b2ed-972376e59823	03-06-2034	3271	NO
az-dev-04-17-2023-10-17-29	27ace449-6b88-4b18-a54f-1ae6eee9d427	646ae795-7575-4f2a-bcd8-278151409fb1	07-06-2027	718	NO
My MongoDB Application 1	3abad869-b6dd-45e4-9a8e-eee381c34b91	fcba5dd5-f369-4697-9080-e506e0d770e1	10-08-2025	52	NO
My MongoDB Application 1	63f64a20-d99e-41e9-a591-e892ba0e525b	bd89701e-10c1-4c9a-9300-a3d85cdd1149	13-08-2025	55	NO
sp-for-aks	672a4f3b-d059-4142-98a1-d241eb5fd337	9bbf79cf-b1a3-4daa-82ce-9dc061cb5781	06-03-2042	6105	NO
ninefyi-database-utils-6af4be60-c02c-46c9-9acc-66a4cf4bbf22	6b1a785b-819e-4424-8d55-b28b0b9ea4f5	b36e00dc-2f73-434c-bd28-243b3f74dc30	07-08-2030	1875	NO
az-dev-04-17-2023-10-22-38	6c8fd289-bdbf-44c8-ad71-8388628c3e21	570d564e-49d3-477c-af38-828de86d303d	07-06-2027	718	NO
ninefyi-dotnet-demo-6af4be60-c02c-46c9-9acc-66a4cf4bbf22	6d468222-5781-4da4-8343-ff2bc424e615	34de1cf2-b2a7-4cd7-8526-9e1031adac4a	07-06-2027	718	NO
Azure - Workload - My MongoDB Application 2	7352ed9a-2f0e-4e4e-9c15-25089f04168c	c4bb3586-f820-4e28-9aa2-4b08ac60a56b	12-08-2025	54	NO
ninefyi-aca-demo-8ff1af8d-93f8-4fee-b81d-ec06bc4cc8c9	7b75d144-e90c-4c8c-89c2-14d539ef4807	48ac4800-2584-4fea-b049-09a56b4943c9	21-03-2025	-90	YES
ninefyi-mongodb-challenge-6af4be60-c02c-46c9-9acc-66a4cf4bbf22	9d546d64-6a85-45d0-8f05-6275c89df000	af457fe3-e436-45ec-84b9-5f7bd2ca0991	31-05-2024	-383	YES
app-registration-for-monitoring	9ded7f86-03fd-43f2-a2f5-2ffc4f9c7d08	c8741fea-c565-4c59-967f-ea5fc51e3550	12-08-2025	54	NO
fyi-app-reg	ad6a3532-d370-498e-9809-8599375efaed	b2d74878-9fdb-4f7b-8c10-6487f4934821	21-08-2122	35491	NO
app-for-demo	b1515e75-2740-4daf-a55d-81f18de5b02e	1a4aeba5-d38b-4aa6-ac8c-2476d664de72	20-04-2026	305	NO
app-for-all	b21eaa6b-4c97-4837-9a23-6dac1717bca3	cd9c1407-5ac7-4680-99fc-5e583c796c51	17-06-2027	728	NO
ninefyi-mongodb-challenge-6af4be60-c02c-46c9-9acc-66a4cf4bbf22	b8ae0f80-ce43-4aaf-8b1f-c3a76675c1ed	feafdb4b-d68f-4799-a23a-89a87beeccf5	31-05-2024	-383	YES
ninefyi-azure-back-to-school-73728d59-aac4-4cba-b129-8fc33a01d117	c355f9fc-14a6-4ef5-b188-3449f2af9675	223fed6f-f37d-4edf-97ca-c35e3900a138	25-11-2024	-205	YES
ninefyi-aca-demo-5ae03649-8a78-4104-9d7d-f31e5660f34c	c51a15a6-388e-48f8-b600-8d6da17ac4c7	4b504295-3e03-4371-b500-af419a7cf86d	21-03-2025	-90	YES
sp-container-app	e42bbf50-915b-4a06-8384-6de7034d5b06	6f16a060-562a-4386-8fef-c2d90cbb6db6	01-07-2122	35441	NO
ninefyi-dotnet-docker-6af4be60-c02c-46c9-9acc-66a4cf4bbf22	f94b0f02-88d0-4ec7-b9e7-b6f6c544fe93	af191bc0-fd5b-4011-a056-f8038ead507a	07-06-2027	718	NO
app-rg-thmug	f985506e-8d38-4ed9-ac79-ac18104c01ba	e13642b6-329a-480f-9c0c-fecc62e80bf4	30-10-2122	35561	NO

**a** Authenticate **r** Refresh **c** Renew **d** Delete **q** Quit

**^p** palette

# Azure Command Line Interface (Azure CLI)



```
az login --scope https://graph.microsoft.com//.default
```

```
az account set --subscription <subscription-id>
```

```
az ad app list --show-mine --output table
```

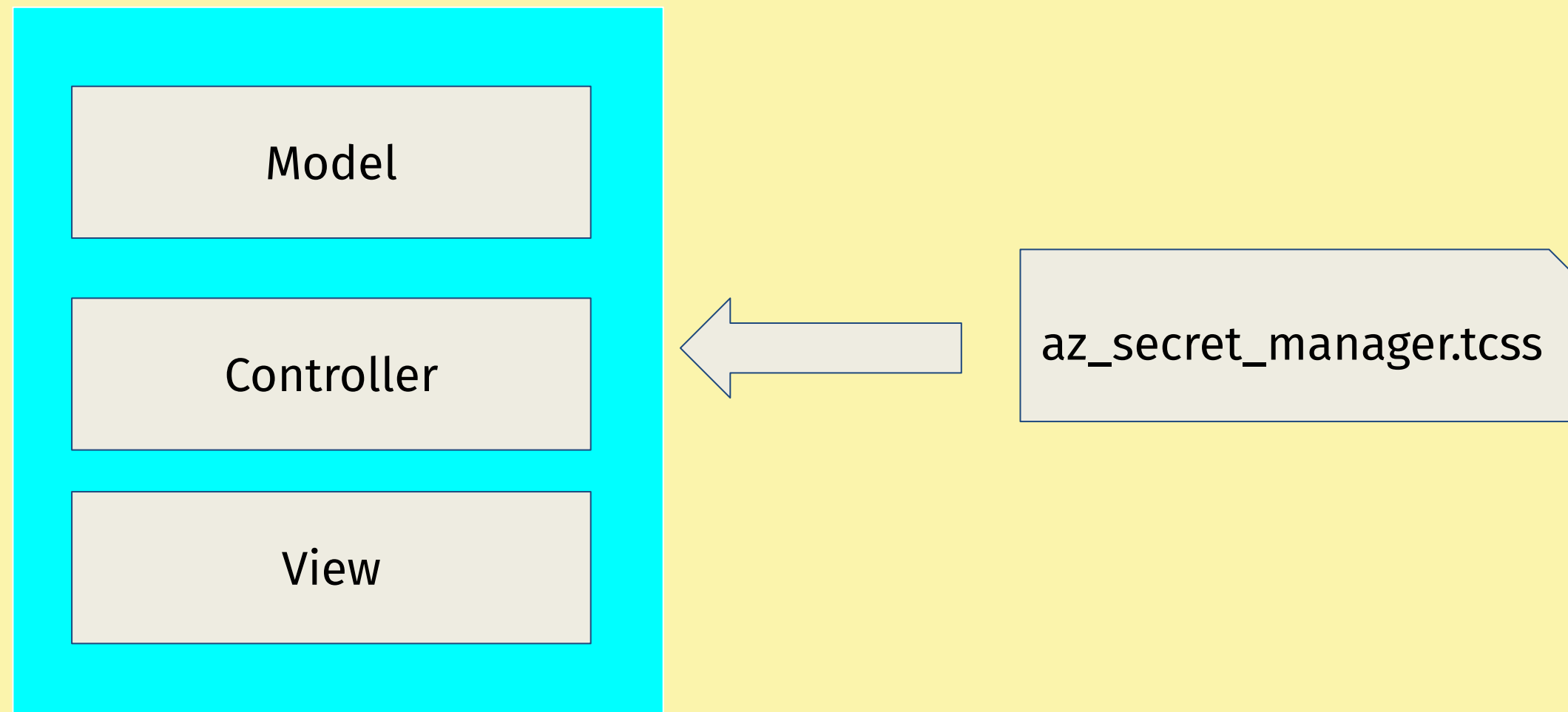
```
az ad app credential list --id <app-id> --output table
```



# File Structure



az\_secret\_manager.py



# Textual CSS



```
#dialog {  
    dock: top;  
    width: 50;  
    background: $surface;  
    border: thick $primary;  
    padding: 1;  
}
```

# Run command



```
textual serve --dev <FILENAME>
```

```
python <FILENAME>
```



# Live Demo



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# Key takeaways



- Delivery Portable Tools for Any Platform
- Boost Productivity in SSH-Only environments
- Build Modern Terminal UI with Ease
- Transform Bash Scripts into Usable Tools

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# Last...but not least



**Code, connect, and deep dive into Python magic!**

## **Workshop Day**

**Date** Oct 17th, 2025

**Venue** Microsoft Thailand

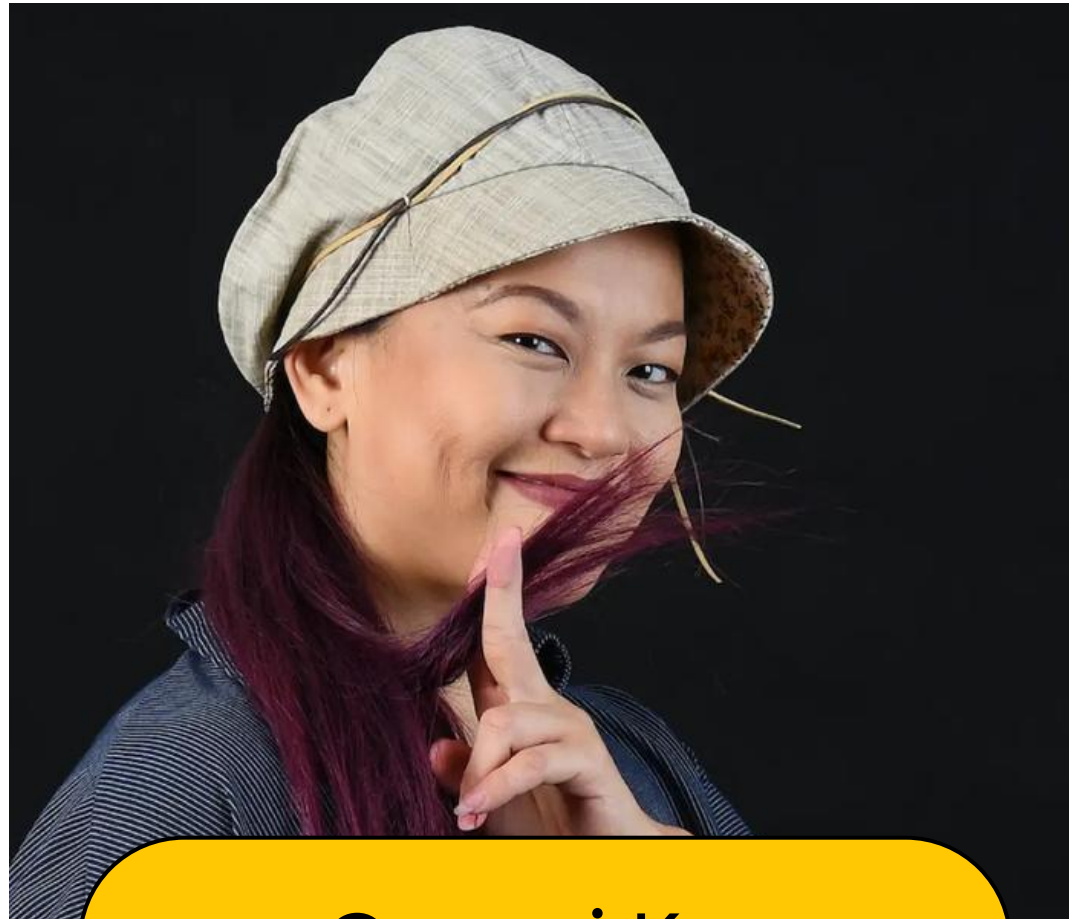
## **Conference Day**

**Date** Oct 18th, 2025

**Venue** Avani Sukhumvit Bangkok Hotel



# Meet Our Keynote Speakers



**Georgi Ker**

Director & Treasurer of  
Python Software  
Foundation



**Alyssa Coghlan**

Python Deployment  
Engineer  
at LM studio

# Grab A PyCon Thailand 2025 Ticket

**th.pycon.org**



**Pythonista pass is available!**

# References



- <https://textual.textualize.io>
- <https://github.com/Textualize/rich>
- <https://leanpub.com/textual>
- <https://github.com/ninefyi/pyconsg25>

THANK YOU!

ขอบคุณครับ!

