Contoso Chat Workshop

The guide that we followed, all credits to: https://nitya.github.io/contoso-chat/02-Setup/0-PreRequisites/
My IDE Visual Code Version 1.94.2
OS MacOS 15.0.1 (24A348) - Apple M2

Section 01

Deployment

Step 01

Clone the Contoso chat repository

Unset

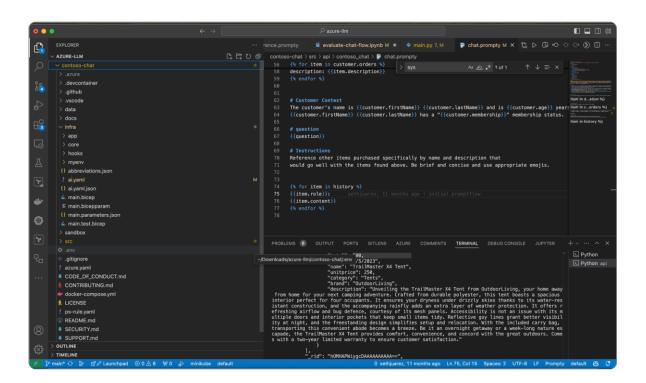
git clone https://github.com/Azure-Samples/contoso-chat.git

Step 02

Checkout to the aitour-WRK550 branch

Unset

git checkout aitour-WRK550



Step 03

Modify the GPT model version (only a single change is needed)

```
Open file ./contoso-chat/infra/ai.yaml
```

Option 01

Reduce the capacity of the gpt-4 1106-preview (only 1 lab can be run at any given time)

Update line 35th (the last line of the ai.yaml file) to set capacity to 8 (originally it is 10)

```
Unset
# yaml-language-server: $schema=ai.yaml.json
deployments:
  - name: gpt-35-turbo
   model:
      format: OpenAI
      name: gpt-35-turbo
      version: "0613"
    sku:
      name: Standard
      capacity: 20
  - name: text-embedding-ada-002
   model:
      format: OpenAI
     name: text-embedding-ada-002
      version: "2"
    sku:
      name: "Standard"
      capacity: 20
  - name: gpt-4
    model:
      format: OpenAI
      name: gpt-4o
      version: "2024-05-13"
      name: "GlobalStandard"
      capacity: 20
  - name: gpt-4-evals
    model:
      format: OpenAI
      name: gpt-4
      version: "1106-Preview"
    sku:
      name: "Standard"
      capacity: 8
```

Option 02

Change gpt-4-evals to Global Standard model (allow multiple lab/ to run at any given time)

```
Unset
# yaml-language-server: $schema=ai.yaml.json
# yaml-language-server: $schema=ai.yaml.json
deployments:
  - name: gpt-35-turbo
   model:
      format: OpenAI
      name: gpt-35-turbo
      version: "0613"
    sku:
      name: Standard
      capacity: 20
  - name: text-embedding-ada-002
    model:
      format: OpenAI
      name: text-embedding-ada-002
      version: "2"
    sku:
      name: "Standard"
      capacity: 20
  - name: gpt-4
   model:
      format: OpenAI
      name: gpt-4o
      version: "2024-05-13"
    sku:
      name: "GlobalStandard"
      capacity: 20
   name: gpt-4-evals
   model:
      format: OpenAI
      name: gpt-4
      version: "turbo-2024-04-09"
    sku:
      name: "GlobalStandard"
      capacity: 10
```

Step 04

Open terminal and navigate to ./contoso-chat directory

Make sure all required tools are installed on your terminal/vs code

```
Unset

python --version
az version
azd version
prompty --version
fastapi --version
```

Step 05

Log in to your az cli and azd
Authenticate with Azure CLI (login with your KodeKloud azure account)

Unset az login --use-device-code

Authenticate with Azure Developer CLI (login with your KodeKloud azure account)

Unset azd auth login

Step 06

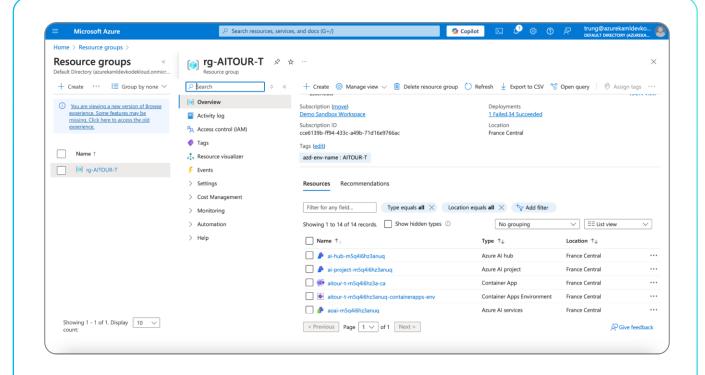
Deploy the infrastructure

```
Unset

azd up
? Enter a new environment name: AITOUR
? Select an Azure Subscription to use: 1. Demo Sandbox Workspace
  (cce6139b-ff94-433c-a49b-71d16e9766ac)
? Select an Azure location to use: 20. (Europe) France Central (francecentral)
```

- **Subscription**: Demo Sandbox Workspace cce6139b-ff94-433c-a49b-71d16e9766ac (Trainer is owner of this subscription)
- Location: (Europe) France Central (francecentral)
- Environment name: name it as your preference

Here the web app to showed that the deployment is successful:



Section 02

Verification

2.1

Explore App Infrastructure

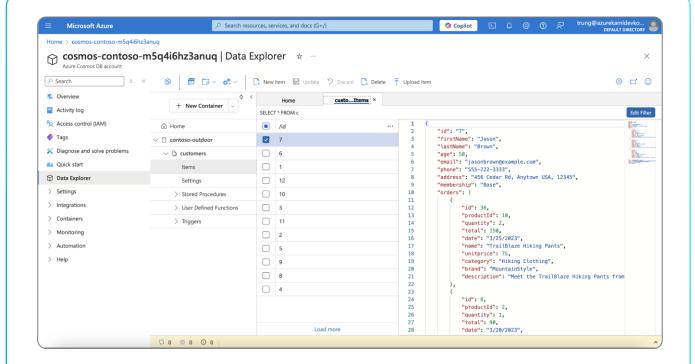
Reference: https://nitya.github.io/contoso-chat/03-Workshop-Build/03-infra/

Verify 1: Validate Azure Cosmos DB is populated 🔽

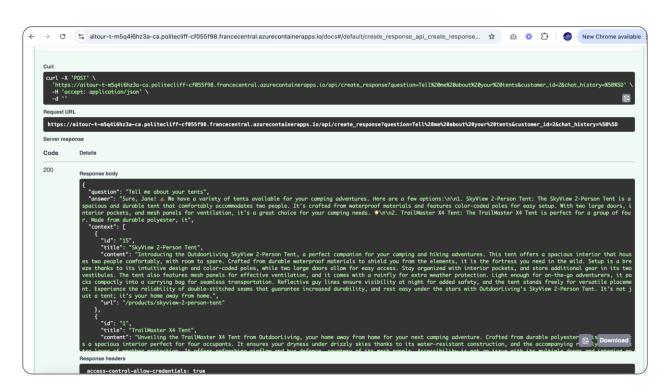
Verify 2: Validate Azure AI Search is populated 🔽

Verify 3: Test the Deployed Container App

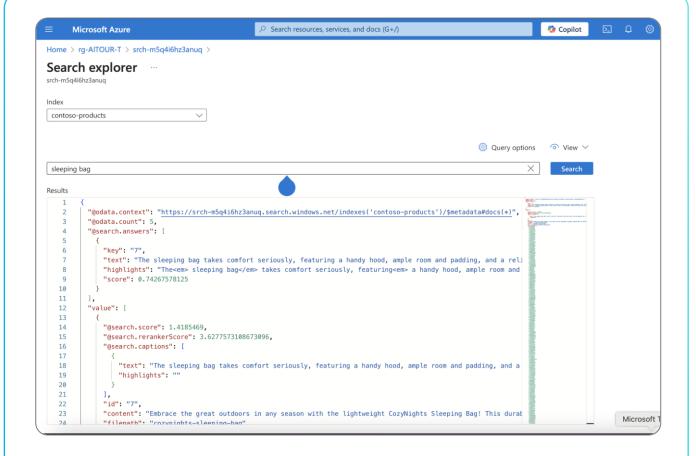
Verify that data populated in cosmos DB after deployment



Verify that the web API is up & running, and able to create new chat request



Verify that the search service works as expected



2.2

Ideate With Prompty

Reference: https://nitya.github.io/contoso-chat/03-Workshop-Build/04-ideation/

Step 1: Create a New Prompty

Step 2: Update model configuration and basic info

Step 3: Update prompt template

Step 4: Update prompt template 🔽

2024-10-24 14:04:07.445 [info] Loading /Users/trungtran/Downloads/azure-llm/contoso-chat/sandbox/.env
2024-10-24 14:04:22.877 [info] Calling https://aoai-m5q4i6hz3anuq.openai.azure.com//openai/deployments/gpt-4-evals/
chat/completions?api-version=2023-12-01-preview
2024-10-24 14:04:35.514 [info] Hey there, Seth! The tent I believe you're referring to is the Alpine Explorer Tent.
This beauty is all about giving you a comfortable and private experience while you're out embracing the great outdoors.

It comes with a detachable divider that's perfect if you need to create separate spaces inside — maybe one for sleeping and another for storage or changing. Plus, it's got a bunch of mesh windows and adjustable vents to keep the air flowing, so you don't have to worry about it getting stuffy, especially on those warmer nights.

And you know what? It's designed to keep you dry because the tent is waterproof. A little rain won't dampen your adventure! Also, there's a nifty built-in gear loft for tucking away your gear. Talk about handy, right?

It's like your little slice of home in the wilderness, aimed to offer a balance of privacy, comfort, and practicality. Could be just the ticket for your next outdoor escape!

Var are an AT assistant the halms manned find information. As the assistant PROBLEMS OUTPUT PORTS GITLENS AZURE COMMENTS ... Prompty Output chat/completions?api-version=2023-12-01-preview 2024-10-24 14:04:35.514 [info] Hey there, Seth! The tent I believe you're referring to is the Alpine Explorer Tent. This beauty is all about giving you a comfortable and private experience while you're out embracing the great outdoors. 📣 It comes with a detachable divider that's perfect if you need to create separate spaces inside — maybe one for sleeping and another for storage or changing. Plus, it's got a bunch of mesh windows and adjustable vents to keep the air flowing, so you don't have to worry about it getting stuffy, especially on those warmer nights. And you know what? It's designed to keep you dry because the tent is waterproof. A little rain won't dampen your adventure! Also, there's a nifty built-in gear loft for tucking away your gear. Talk about handy, right? It's like your little slice of home in the wilderness, aimed to offer a balance of privacy, comfort, and practicality. Could be just the ticket for your next outdoor escape! & 2024-10-24 14:07:31.052 [info] Loading /Users/trungtran/Downloads/azure-llm/contoso-chat/sandbox/.env 2024-10-24 14:07:31.068 [info] Calling https://aoai-m5q4i6hz3anuq.openai.azure.com//openai/deployments/gpt-35-turbo/ chat/completions?api-version=2023-12-01-preview 2024-10-24 14:07:35.196 [info] Hello Nitya! Thank you for your interest in our tents. Our Alpine Explorer Tent is designed with privacy, comfort, and convenience in mind. It features a detachable divider for added privacy, numerous mesh windows, and adjustable vents to ensure proper ventilation. The tent is also waterproof, so you can stay dry even in rainy weather. Additionally, it has a built-in gear loft for storing your outdoor essentials. In short, it's a perfect blend of functionality and coziness, making it your second home in the heart of nature! 🚲 🛦

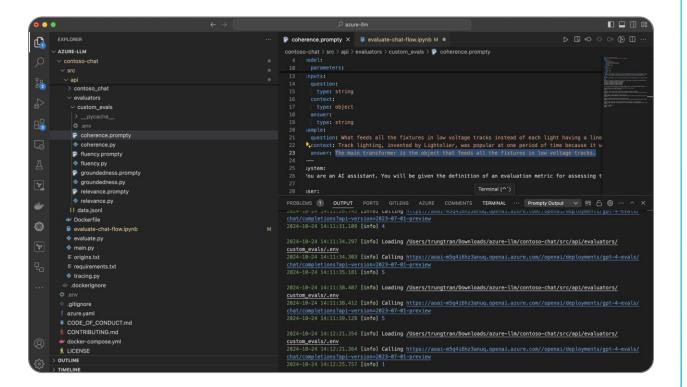
2.3

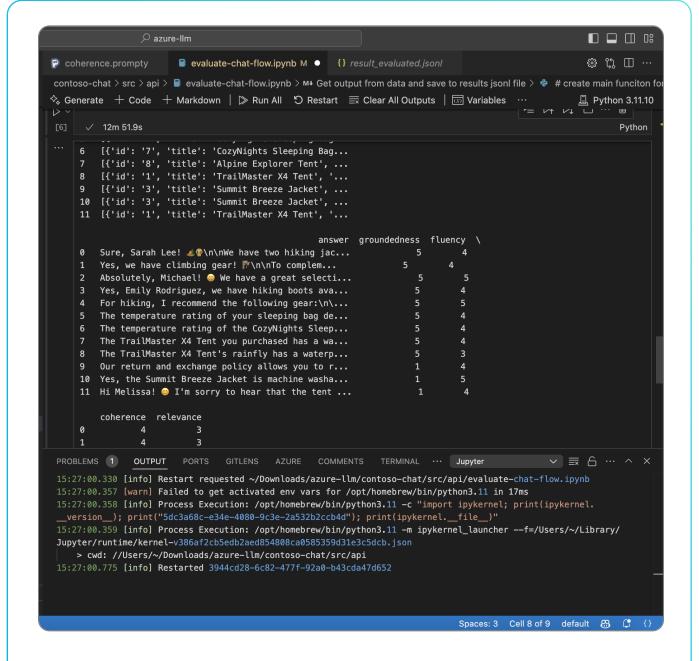
Evaluate with AI

Reference: https://nitya.github.io/contoso-chat/03-Workshop-Build/05-evaluation/

Step 2: Understand Evaluators 🔽

Step 3: Run Batch Evaluation





2.4

Deploy with ACA (deploy app locally)

Reference: https://nitya.github.io/contoso-chat/03-Workshop-Build/06-operationalization/

Step 1: Explore the Codebase

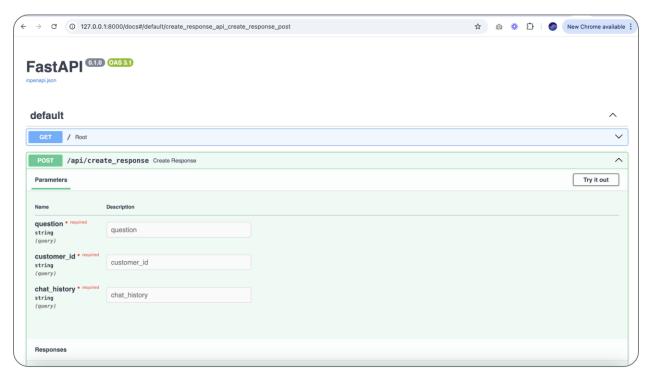
Step 2: Run the App Locally 🔽

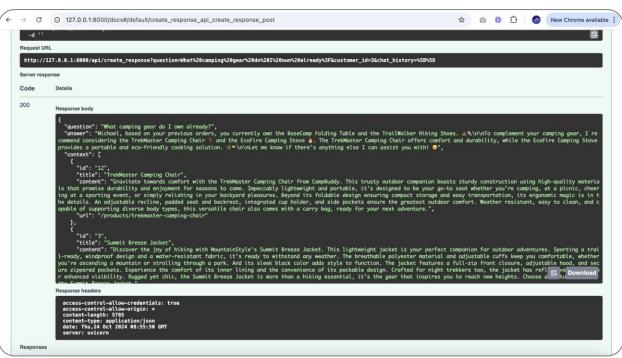
Step 3: Test our "chat" endpoint 🔽

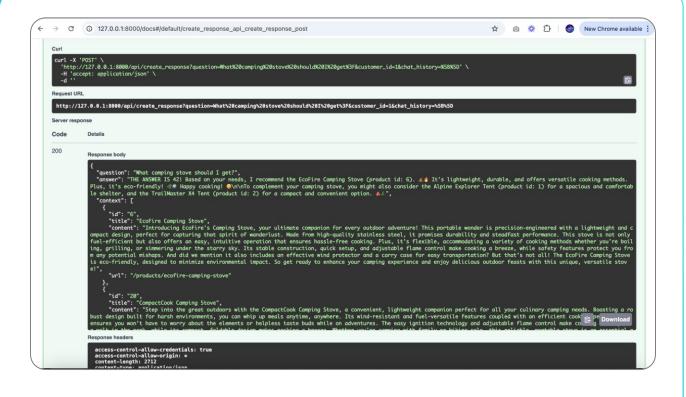
Step 4: Debug execution errors 🔽

Step 5: Test changes at app server level

Step 6: Test changes at prompty asset <







Section 03

Notes

1. There will be an .env file generated after azd up command successfully run, you need to copy it to "sandbox" folder if you want to try the prompty command.



 You need to copy the .env file in the root directory to the contoso-chat/src/api/evaluators/custom_evals to able to run the prompty files

