K8sGPT

Steps:

1] Install the K8sgpt on your Kubernetes cluster

curl -LO
https://github.com/k8sgptai/k8sgpt/releases/download/v0.4.1/k8sgpt_amd64.deb

sudo dpkg -i k8sgpt_amd64.deb

2] Install K8sGPT Operator using Helm

helm repo add k8sgpt https://charts.k8sgpt.ai/

helm repo update

helm install release k8sgpt/k8sgpt-operator -n k8sgpt-operator-system --create-namespace

use above commands that can help you to setup the K8sgpt CLI

3] Install Google Cloud CLI

You can use any other CLI that can provide generative text prompts

curl -O https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-cli-linux-x86_64.tar.gz

tar -xf google-cloud-cli-linux-x86_64.tar.gz

4] Authenticate K8sGPT

k8sgpt auth add --backend google --model "gemini-2.0-flash" --password "YOUR_API_KEY"

you can change the model if you want with any other model

for password create an API key from the google aistudio

https://aistudio.google.com/apikey

5] Use the k8sgpt

Prompt k8sgpt –help in your k8s cluster you will get options that you can use with k8sgpt

Like

k8sgpt analyze

k8sgpt analyze --explain --backend google

above command will run analysis with explanation and text generated by gemini ai model

In case if your authentication fails you can go to yaml file of k8sgpt to correct it

/root/.config/k8sgpt/k8sgpt.yaml

Change the password or model in case.