ere’s the **step‑by‑step** for doing exactly that in a hackathon‑friendly, low‑cost way. I’ll use **Bank of Anthos** as the example since it’s simpler to wire in an extra service later.

**1️⃣ Set up your Google Cloud environment**

1. **Log in** to Google Cloud Console.
2. **Create a new project** for the hackathon (keeps billing separate from Emakia’s main project).
3. **Enable billing** — ideally link to a project with free trial credits if you have them.
4. **Enable the GKE API**:

bash

gcloud services enable container.googleapis.com

**2️⃣ Create a GKE Autopilot cluster in the cheapest region**

Autopilot means you only pay for pods you run, and Google manages the nodes.

bash

gcloud container clusters create-auto bank-anthos-cluster \

--region=us-central1 \

--project=YOUR\_PROJECT\_ID

* us-central1 is usually the cheapest region.
* This will take ~2–3 minutes.

**3️⃣ Get the Bank of Anthos source**

Clone Google’s official repo:

bash

git clone https://github.com/GoogleCloudPlatform/bank-of-anthos.git

cd bank-of-anthos

**4️⃣ Deploy Bank of Anthos to your cluster**

From inside the repo:

bash

kubectl apply -f ./kubernetes-manifests

This applies all the stock microservices (frontend, accounts, transactions, etc.).

**5️⃣ Verify it’s running**

Check pods:

bash

kubectl get pods

When all are Running, get the frontend’s external IP:

bash

kubectl get service frontend-external

Open that IP in your browser — you should see the Bank of Anthos UI.

**6️⃣ Keep it stock**

* Don’t edit the existing service manifests.
* Any new functionality (like your Emakia moderation agent) should be deployed as a **separate microservice** that talks to the existing APIs.
* This keeps you compliant with the hackathon’s “don’t modify core services” rule.

**7️⃣ Cost control**

* **Delete the cluster** when not actively testing:

bash

gcloud container clusters delete bank-anthos-cluster --region=us-central1

* Re‑create it when you need to demo.
* This keeps your GKE bill to just a few dollars for the whole hackathon.

✅ At this point you have:

* **Bank of Anthos** running in **GKE Autopilot** in a low‑cost region.
* A clean, stock deployment ready for you to add your own agentic AI service alongside it.

If you want, I can now give you the **exact Kubernetes YAML + service wiring** to drop your existing adk\_hackathon\_streamlit moderation pipeline into this cluster so it can call Bank of Anthos APIs without touching their code. That would make you hackathon‑ready in one sprint.

Do you want me to prepare that next?