

## # Risk Agent

AI-powered workflow agent that connects to your tools, understands your code, and accelerates workflows.

### ## Live Service

[Risk Agent on Cloud Run](https://risk-agent-172315192975.us-central1.run.app)

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### ## Features

- Python-based agent service
- Deployable on **Google Cloud Run** using Docker
- Exposes health endpoint for monitoring
- Cloud Build + GCR integration for CI/CD

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### ## Tech Stack

- **Python 3.11** (FastAPI/Flask backend)
- **Docker** (containerization)
- **Google Cloud Run** (serverless hosting)
- **Google Artifact Registry / GCR** (container images)
- **Cloud Build** (CI/CD pipeline)

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### ## Quickstart

#### #### Local Run

```
```bash
```

```
# Clone repo
```

```
git clone https://github.com/Oracle69digitalmarketing/risk-agent.git
```

```
cd risk-agent
```

```
# Create virtualenv
```

```
python3 -m venv venv && source venv/bin/activate
```

```
# Install dependencies
```

```
pip install -r requirements.txt
```

```
# Run locally
```

```
python main.py
```

Deploy to Google Cloud Run

# Build & push

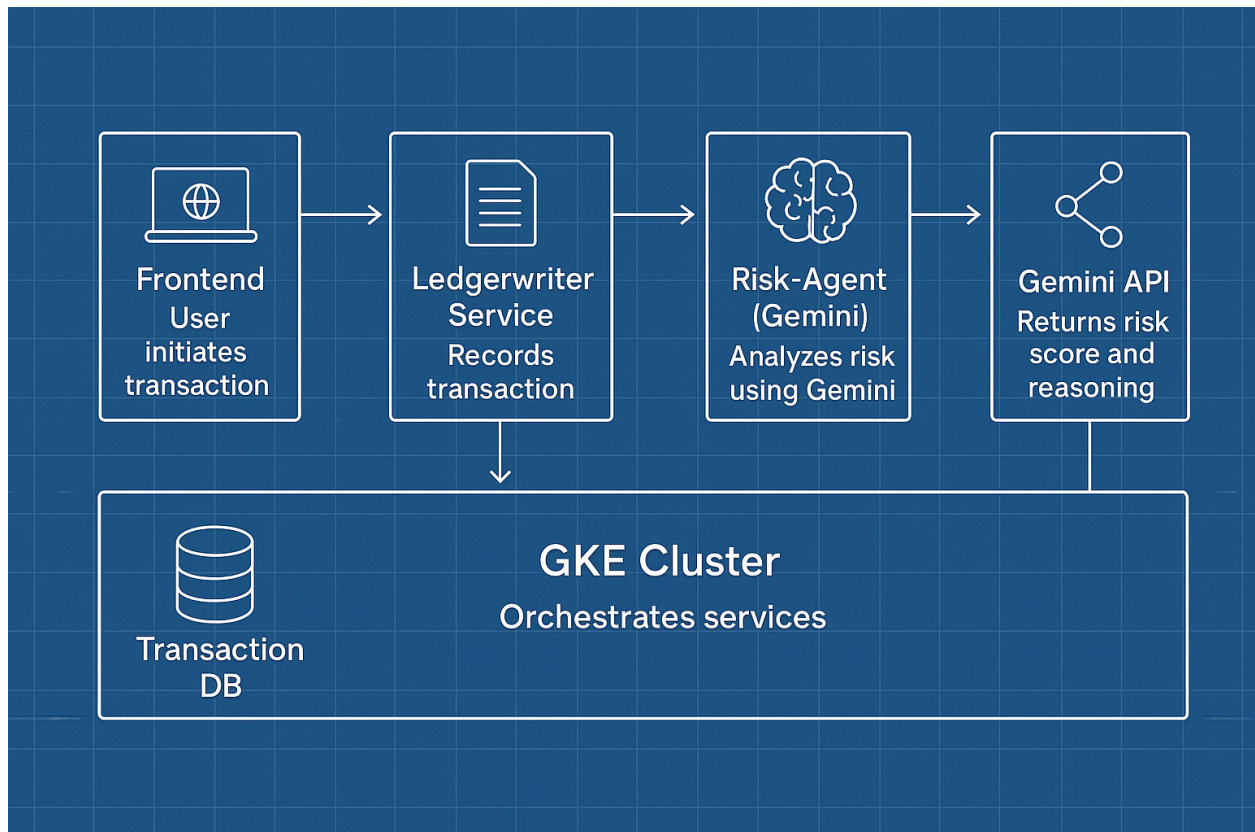
```
gcloud builds submit --tag gcr.io/YOUR_PROJECT_ID/risk-agent
```

# Deploy

```
gcloud run deploy risk-agent \  
  --image gcr.io/YOUR_PROJECT_ID/risk-agent \  
  --region us-central1 \  
  --platform managed \  
  --allow-unauthenticated
```

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## Architecture



User → Cloud Run (Risk Agent)

Cloud Run → GCR (container images)

Cloud Build automates build & push

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 Hackathon Note

This project was built for the #GKEHackathon #GKETurns10 challenge.