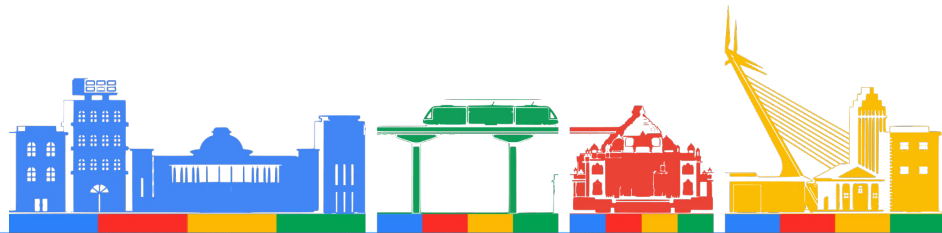




Cloud Community Day 2024



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Cloud Community Day 2024

Speaker



Google Developer Groups

Cloud • Gandhinagar

The Rise of Serverless AI Agents

A beginner's guide to
lightweight agent armies



Anubhav Singh
Co-founder Callchimp.ai

GDE for GCP & ML

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Agenda

- Firebase
- Genkit
- Agents
- Serverless
- Cloud Run
- Agent Army Demo



Firebase

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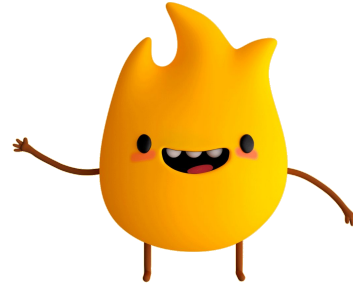


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What is Firebase?

Firebase, a powerful platform by Google, offers a complete suite of tools for web and mobile app development.

It's a comprehensive ecosystem that supports your app's backend, including databases, hosting, analytics, and, yes, security!





Build

Accelerate app development
with fully managed backend
infrastructure

 Cloud Firestore

 Authentication


 Extensions



Release & Monitor

Release with confidence and
monitor performance and
stability

 Crashlytics

 Performance
Monitoring

 Google Analytics



Engage

Boost user engagement with
rich analytics, A/B testing, and
messaging campaigns

 Remote Config

 Cloud Messaging

 A/B testing



Who is using Firebase?

The New York Times



venmo



trivago



wattpad 



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Genkit

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Genkit

Firebase Genkit is an open source framework that helps you build, deploy, and monitor production-ready AI-powered apps.

Genkit can be understood as a replacement for libraries like LangChain, with the goodness of Firebase and Google tech in it!



Firebase
Genkit

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Agents

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Agents

An Agent in short, or specifically an AI Agent is a program that is designed to execute tasks provided with some instruction that the agent lives with during its runtime.

The agent may access external data sources, APIs or simply fire events into the void.



Serverless

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Serverless

A deployment concept which involves putting business logic on managed runtimes in an auto-scaling manner.

Serverless deployments come with the benefits of being free from the need of managing server infrastructure, possibility of zero costs when there is no traffic and high availability.



Cloud Run

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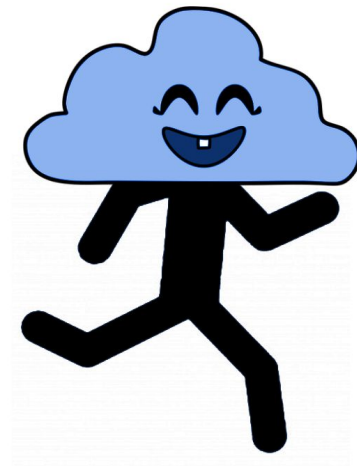


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Google Cloud Run

A serverless, bring your own runtime deployment platform available in Google Cloud Platform.

Cloud Run is a move over App Engine or other equivalent services in the sense that its way more flexible, runtimes could be pretty much anything and can even run entire SLMs!



Google Cloud Run

A serverless, bring your own runtime deployment platform available in Google Cloud Platform.

Cloud Run is a move over App Engine or other equivalent services in the sense that its way more flexible, runtimes could be pretty much anything and can even run entire SLMs!



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Agent Army Demo

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Codebase

Fleet Manager:

github.com/xprilion/agent-fleet-manager

Python Fleet Worker:

github.com/xprilion/agent-fleet-worker

Go + Genkit Fleet Worker:

github.com/xprilion/go-agent-fleet-worker

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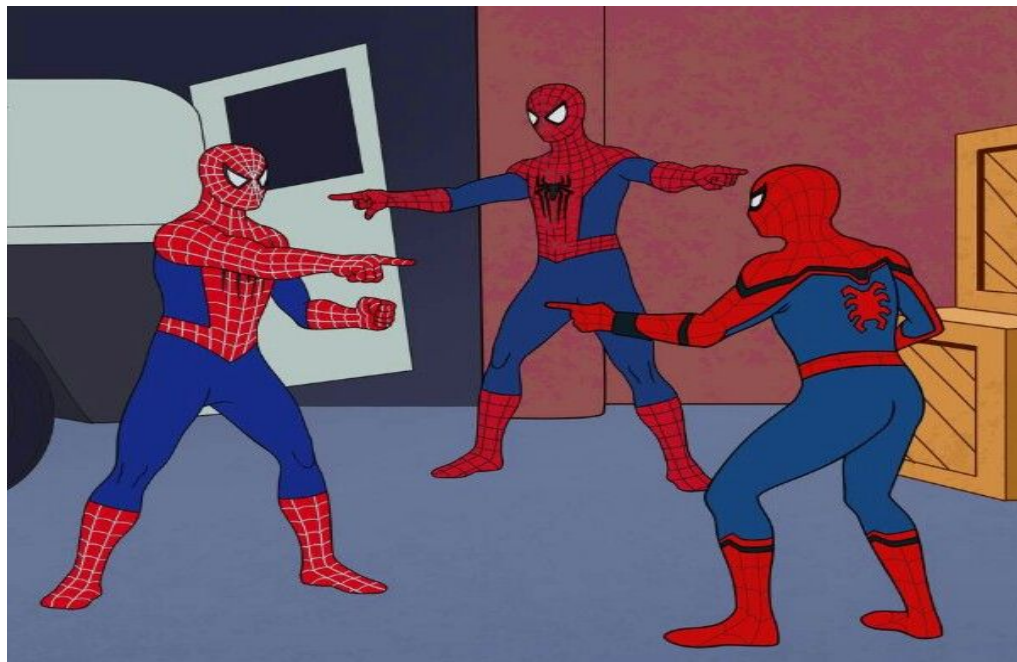




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Leaked footage of Spider-Man versus Ant-Man:



Resources

- Firebase Genkit
firebase.google.com/docs/genkit
- Genkit Golang
firebase.google.com/docs/genkit-go
- Project IDX
idx.google.com



Resources

- Cloud Run:

cloud.google.com/run

- Vertex AI Agents:

cloud.google.com/dialogflow/vertex/docs/

[concept/agents](https://cloud.google.com/dialogflow/vertex/docs/concept/agents)

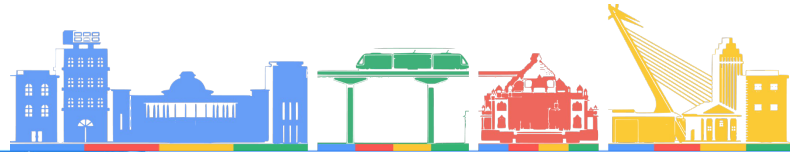


Questions?



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SHER NE APNA KAAM KAR DIYA HAI



AB WOH TAALIYA BAJNE KA INTEZAR KAREGA

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twitter.com/xprilion



Google “xprilion”



xprilion@gmail.com



xprilion.com



github.com/xprilion



Let's Connect:



Get the deck:

xpri.dev/serverless-ai-agents





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Thank you!

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