



# Secrets Consumption Patterns With Cloud Run And Vault

Robert Barnes

Senior Developer Advocate



# Agenda

What is Cloud Run	1
What is Secret Manager	2
What is Vault	3
Secret Syncing Pattern	4
Vault Agent Pattern	5
Q & A	6





# Rob Barnes

Senior Developer Advocate  
HashiCorp

@devops\_rob



# 01

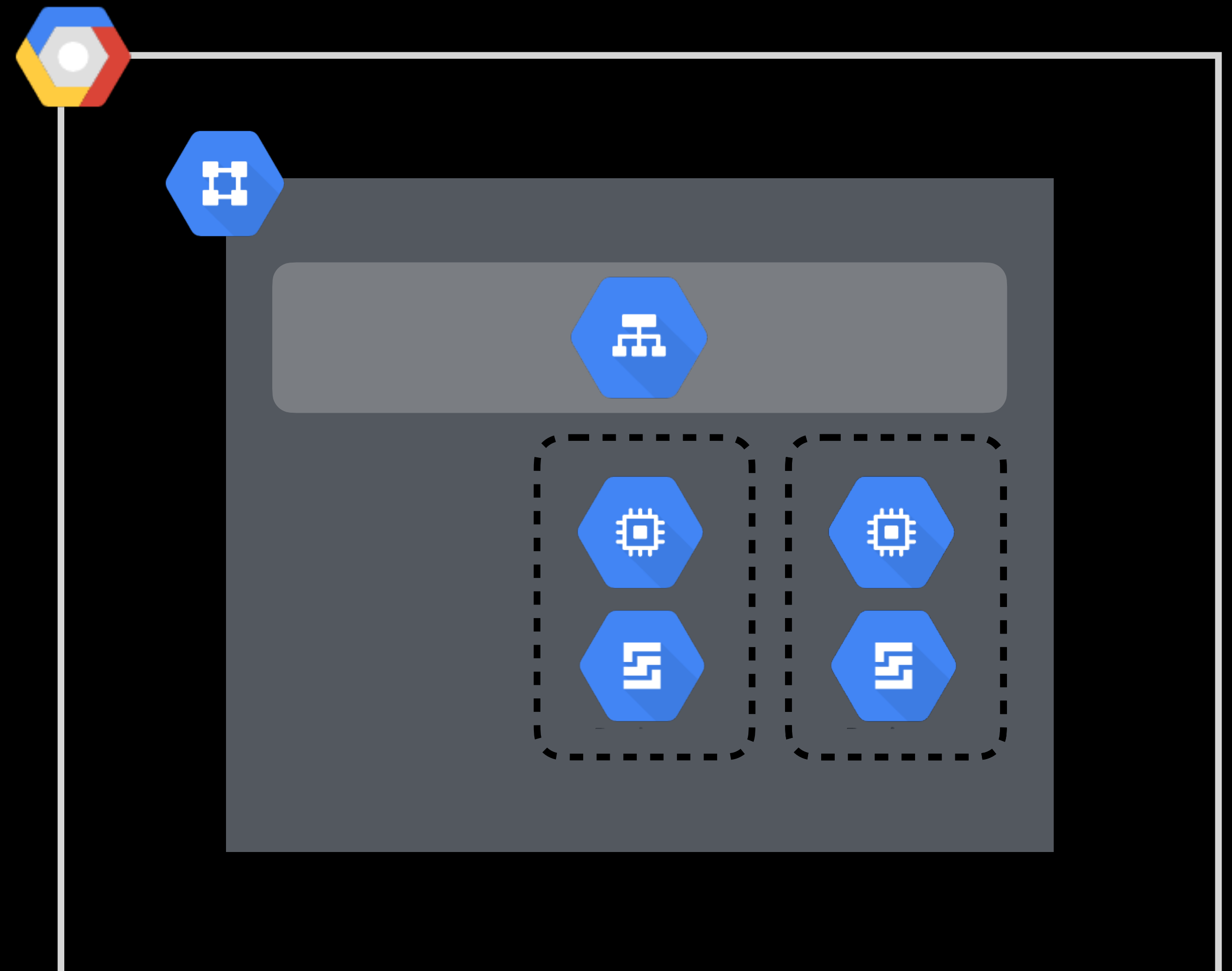
# What is cloud run

# VM Infrastructure

## What is Cloud Run

What you need to deploy to run your application on VMs

- Network
- Virtual Machine
- Persistent Disk
- Auto Scaling Group Policies
- Load Balancer

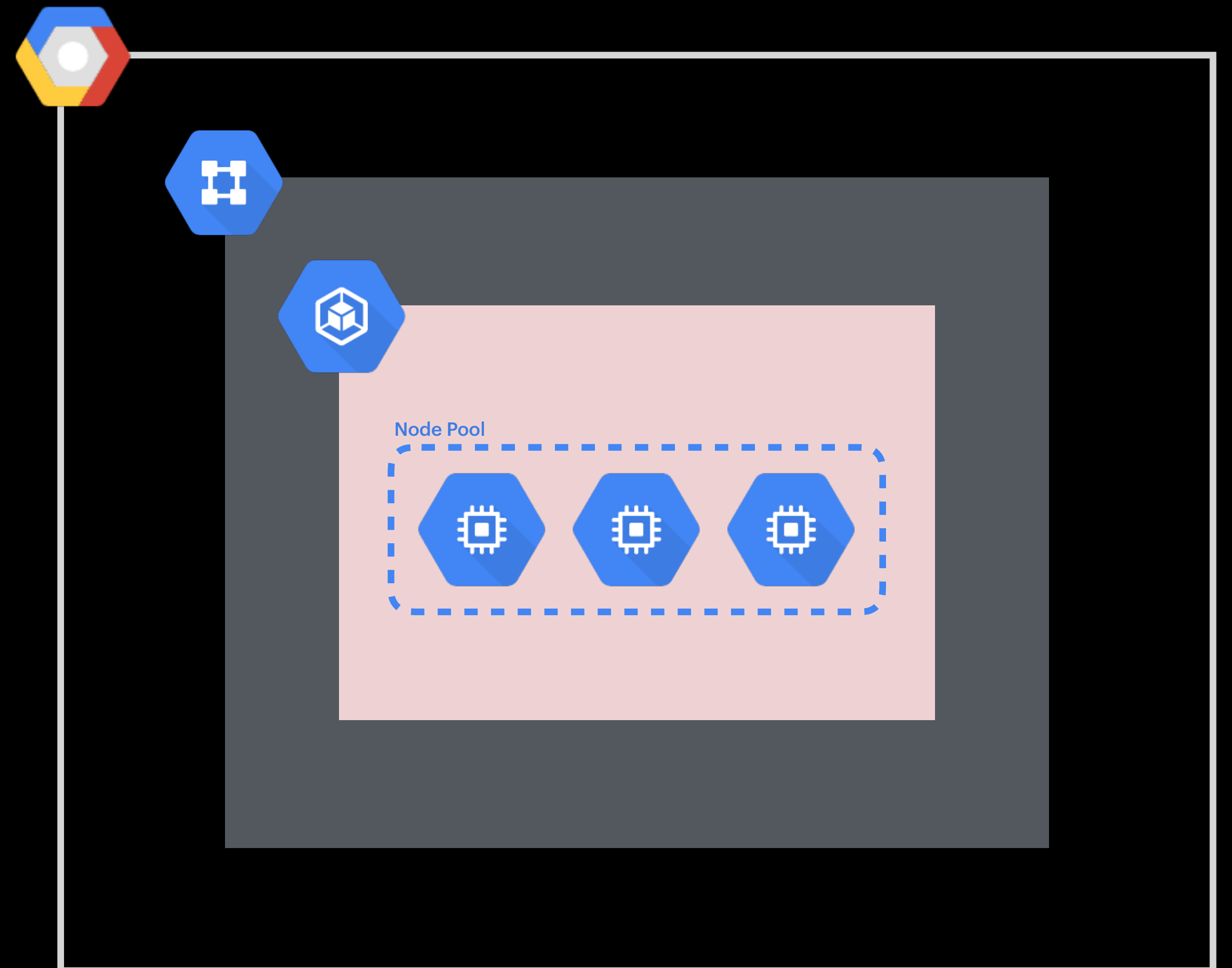


# GKE Infrastructure

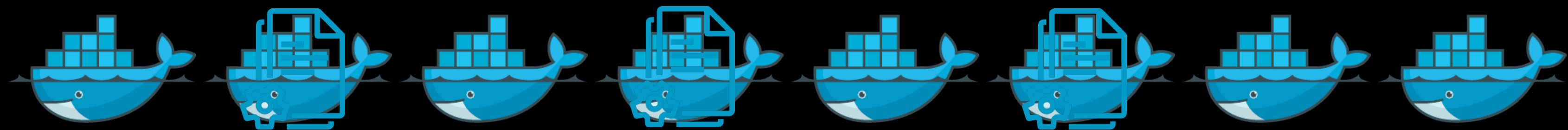
## What is Cloud Run

What you need to deploy to run your application on GKE

- Network
- GKE Cluster
- Node Pool

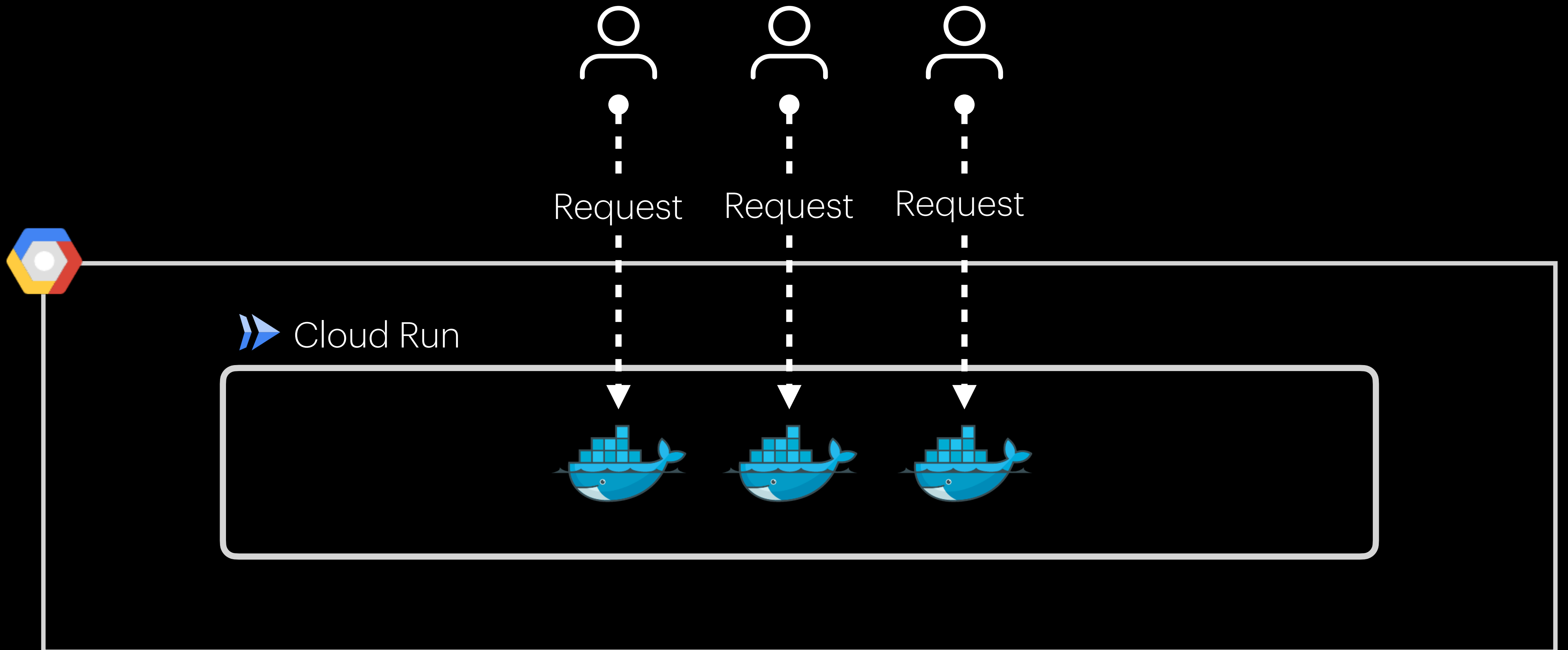


# Cloud Run



Google Cloud Infrastructure

# Cloud Run



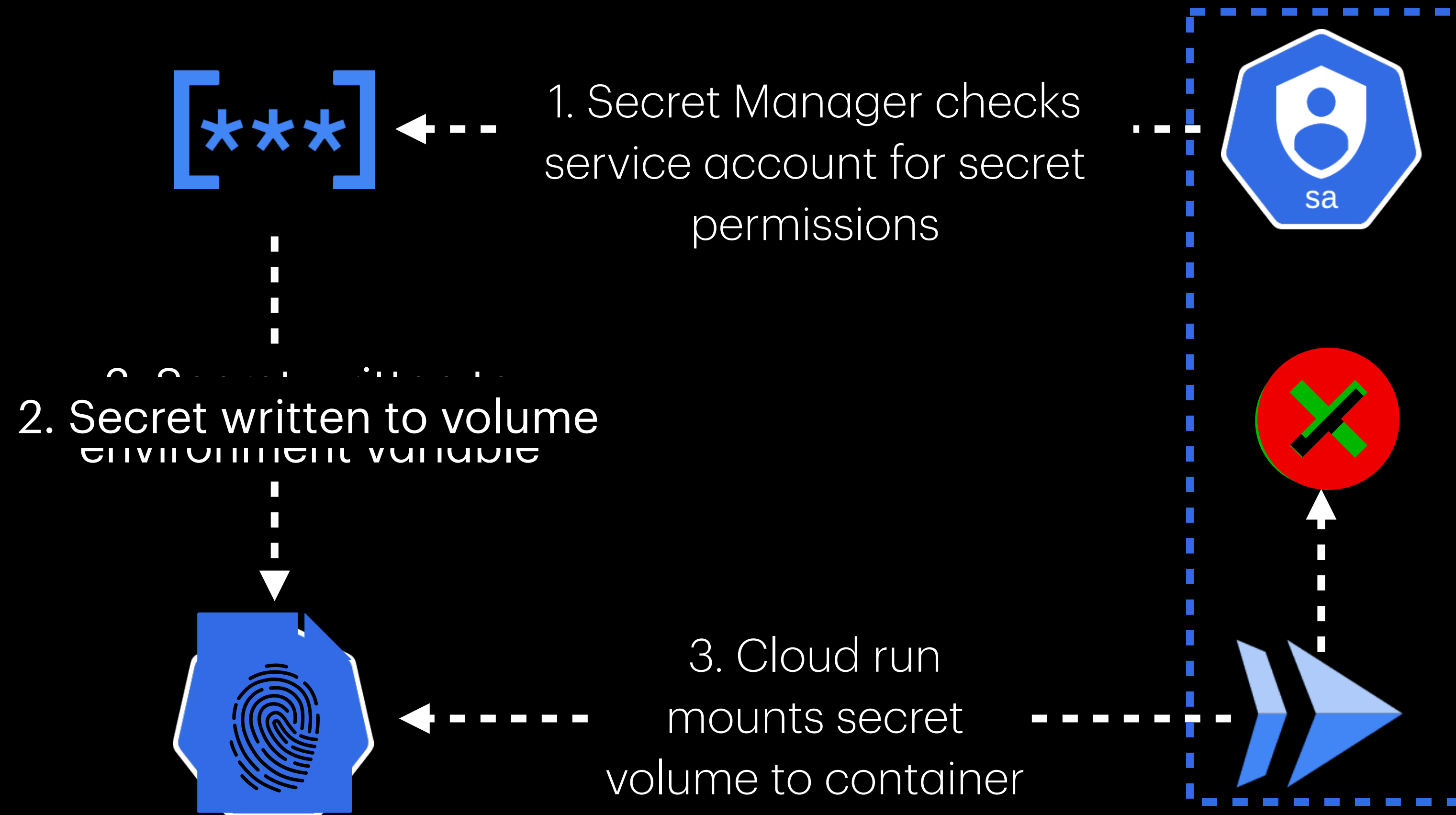


02



# What is secret manager

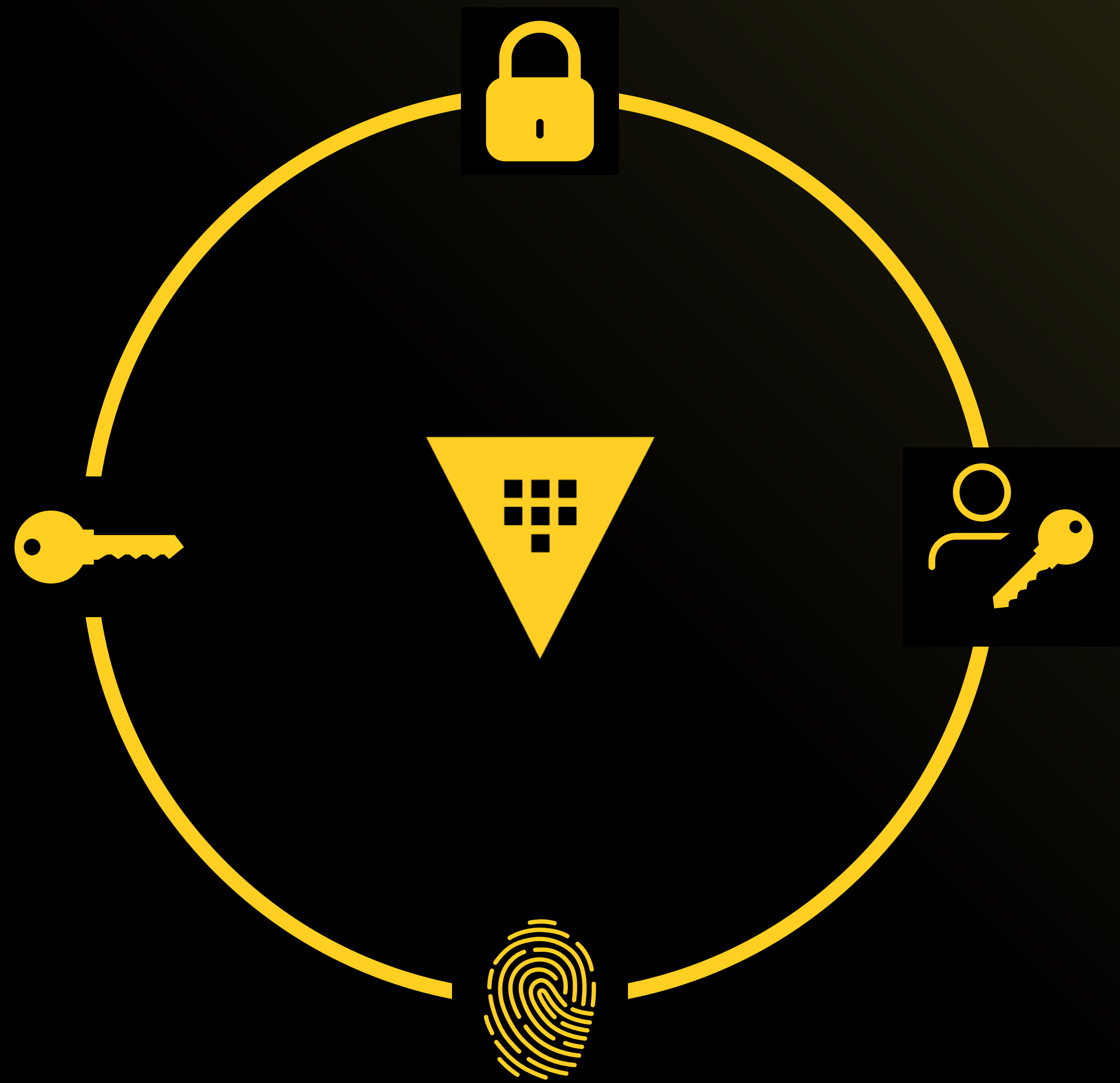
# Secret Manager With Cloud Run



03

# What is Vault





# Vault Plugin Constructs



## Auth Methods

---

- Responsible for AuthN
- Allows you to BYOld
- Enable only the plugins you require



## Secrets Engines

---

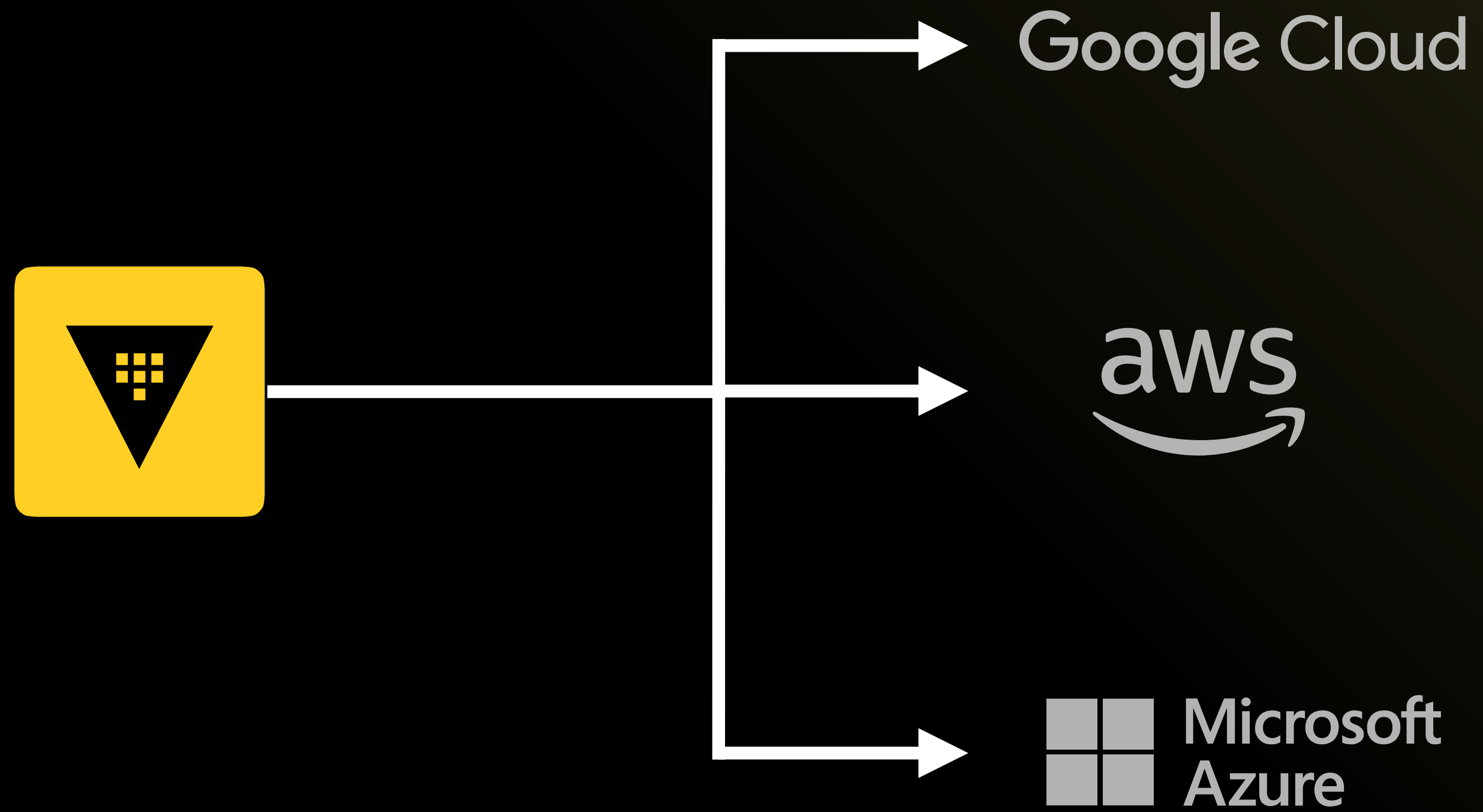
- Responsible for managing secrets
- Supports most major clouds, DBs, and platforms
- KV-V2

04

# Secret Sync







Google Cloud

Welcome

You're working in [My First Project](#)

Project number: 847849675682 Project ID: premium-fuze-216211

[Dashboard](#)

[Recommendations](#)

Create a VM

Run a query in BigQuery

Create a GKE cluster

Create a storage bucket

Try our most advanced model: Gemini 1.5 Pro

Try Gemini

Quick access

API

APIs & Services

IAM & Admin

Vault v1.16.2 

root

Client count

[Details](#)

Total

The number of clients in this billing period (May 2024 - May 2024).

0

New

The number of clients new to Vault in the current month.

-

Updated May 23, 2024 10:00:52

Replication

Replication not set up

Data will be listed here. Enable a primary replication cluster to get started.

[Enable replication](#) >

16 ©2024 HASHICORP



04

# Vault Agent





**Thank you**