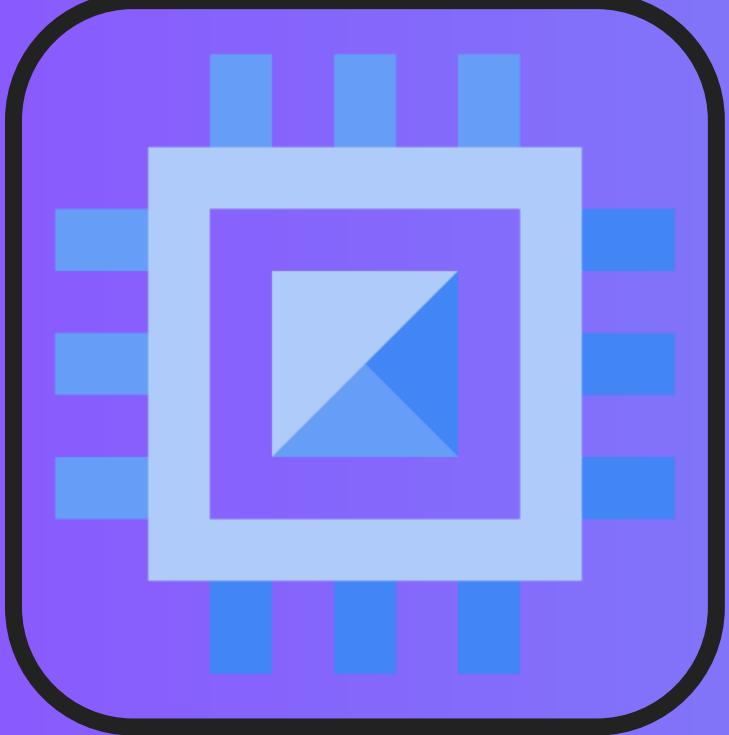


GOOGLE CLOUD PLATFORM CHEAT SHEET

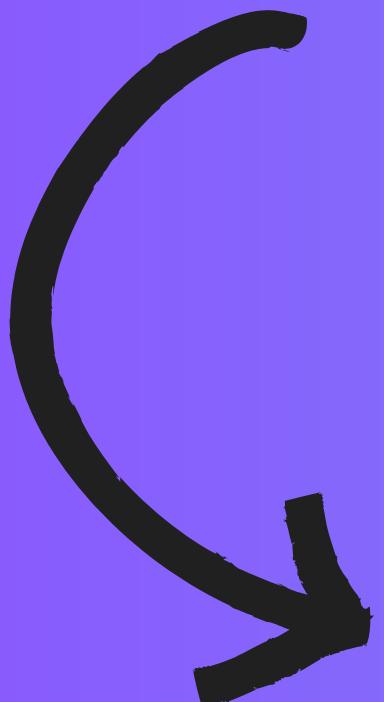


EXPLANATION & USE CASES



Google Compute Engine (GCE)

Where it can be used?



What it is?

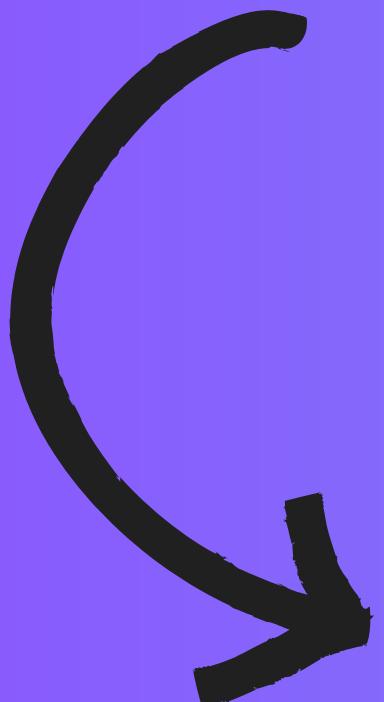


A service that provides virtual machines (VMs) that you can use to run your applications.

To run web applications, databases, and other workloads on Google's infrastructure.



Where it can be used?



Google Kubernetes Engine (GKE)

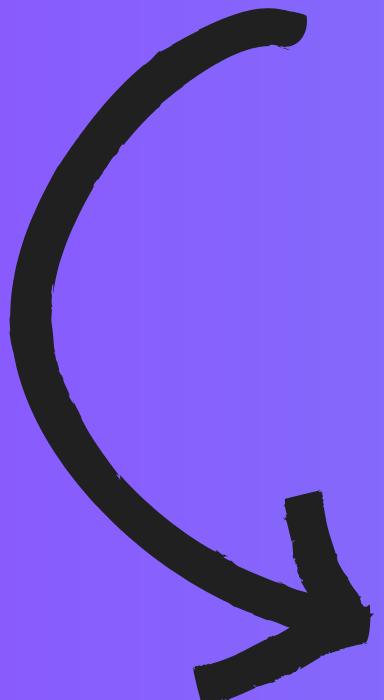
What it is? A white downward-pointing chevron icon.

A managed, production-ready environment for deploying containerized applications.

To run containerized applications at scale with high availability and performance.



Where it can be used?



Cloud Functions

What it is?



A serverless computing service that allows you to run code without provisioning or managing servers.

To run short-lived, event-driven functions without having to manage servers.

Where it can be used?

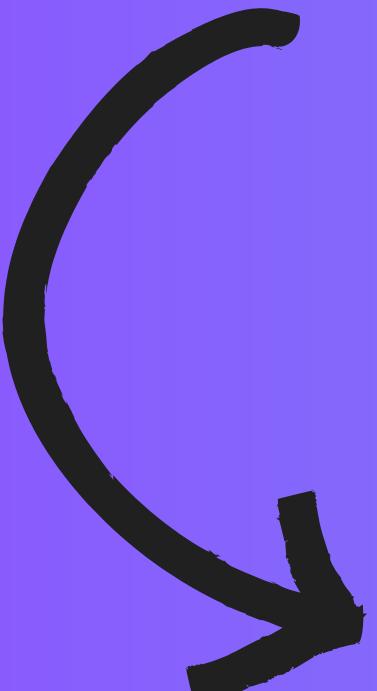


Cloud Storage

What it is?



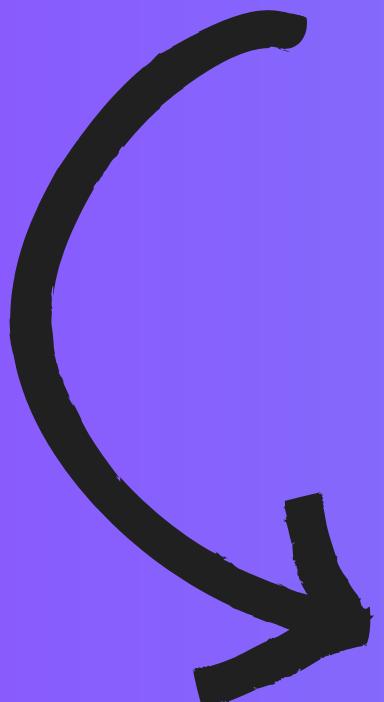
A highly scalable, secure, and durable object storage service.



To store any type of data, including images, videos, audio, text, and binaries.



Where it can be used?



Persistent Disk

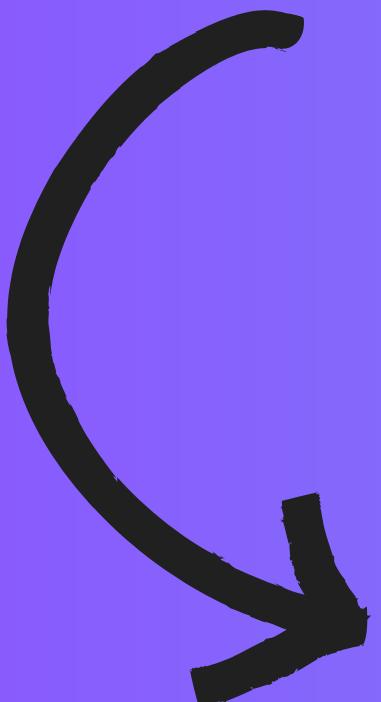
What it is? 

A block storage service that provides persistent storage for your VMs.

To store data that needs to be persisted across VM restarts.



Where it can be used?

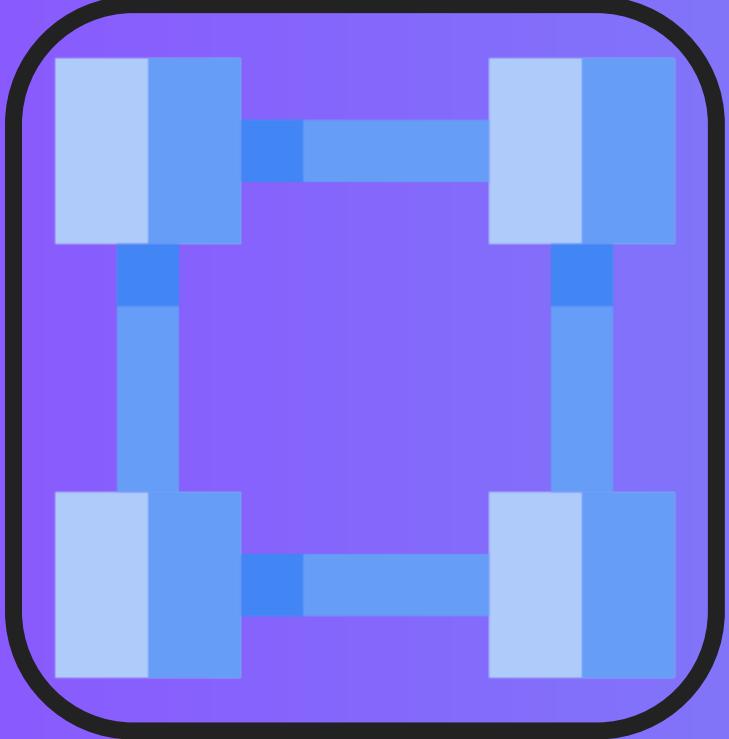


File Store

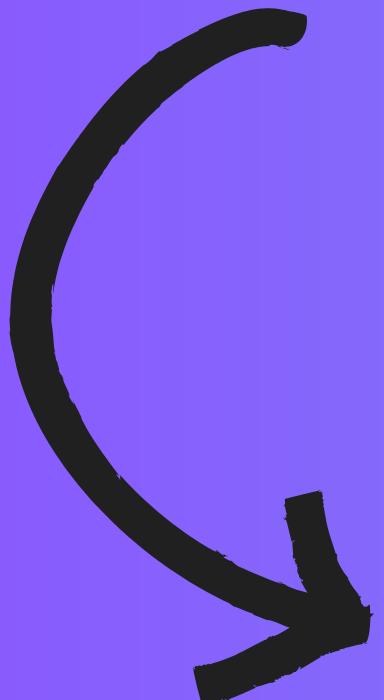
What it is? A white downward-pointing chevron icon consisting of three parallel V-shaped lines.

A fully managed NFS file storage service for your VMs.

To provide shared file storage for your VMs.



Where it can be used?



Virtual Private Cloud (VPC)

What it is?

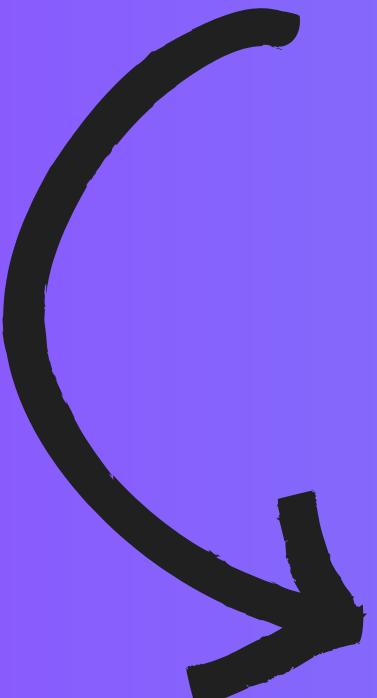
A network that you can isolate from the public internet.

To create a private network for your VMs and other resources.

Cloud DNS



Where it can be used?

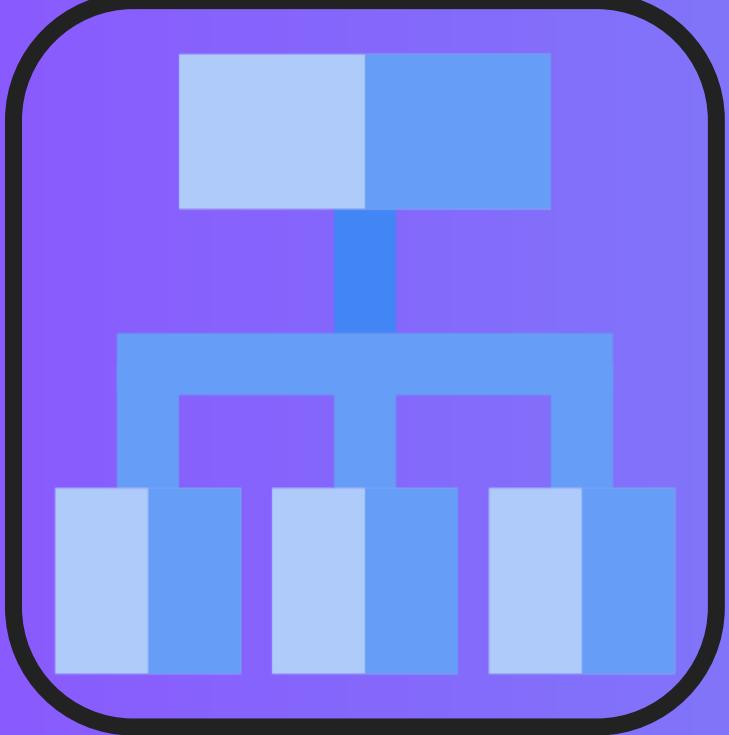


What it is?



A managed DNS service that provides high availability and performance.

To manage your DNS records and provide name resolution for your applications.



Where it can be used?



Cloud Load Balancing

What it is?

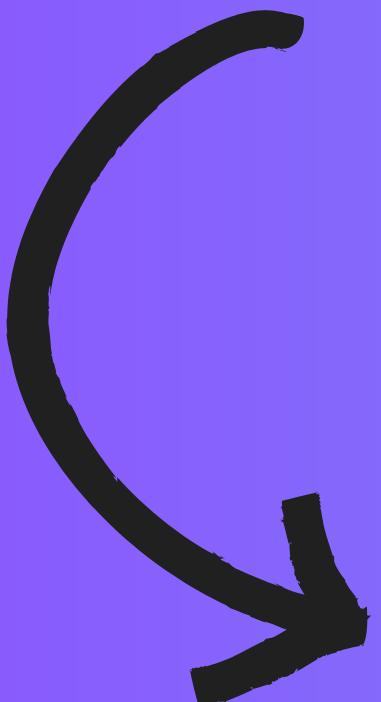


A service that distributes traffic across your VMs.

To distribute traffic across your VMs and improve performance and availability.



Where it can be used?



Cloud Armor

What it is?



A web application firewall that protects your applications from attacks.

To protect your web applications from common attacks, such as DDoS attacks and SQL injection.



Cloud SQL

What it is?



A fully managed relational database service.

Where it can be used?

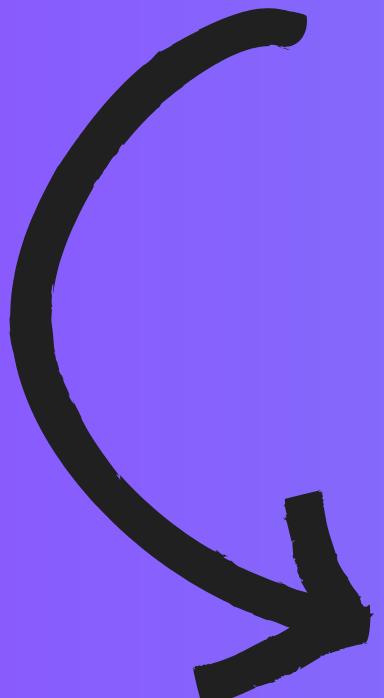


To run relational databases, such as MySQL, PostgreSQL, and SQL Server, on Google's infrastructure.

Fireb

Firebase Realtime Database

Where it can be used?



What it is?



A NoSQL database that provides real-time synchronization for your data.

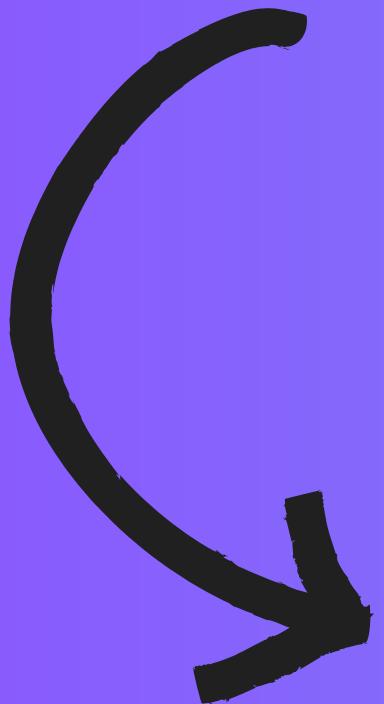
To provide real-time synchronization for your data across multiple devices and platforms.

BigQuery

What it is?



Where it can be used?

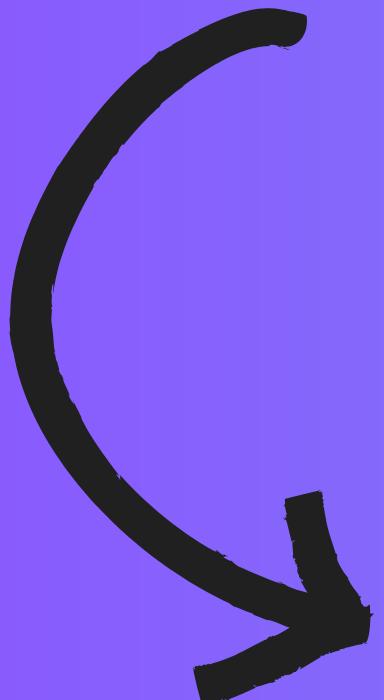


A fully managed, petabyte-scale analytics data warehouse.

To run complex analytics on large datasets.



Where it can be used?



Dataproc

What it is?

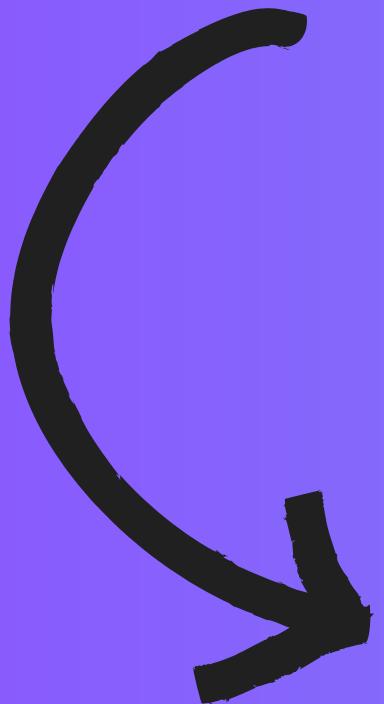


A managed service for running Apache Spark and Apache Hadoop clusters.

To run large-scale data processing workloads on Apache Spark and Apache Hadoop.



Where it can be used?



Dataflow

What it is?

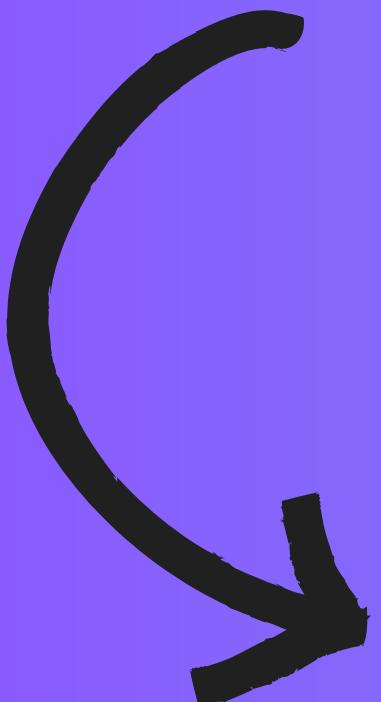


A fully managed service for running Apache Beam pipelines.

To run streaming data processing workloads on Apache Beam.



Where it can be used?



Vertex AI

What it is?



A unified platform for machine learning development and deployment.

To develop and deploy machine learning models at scale.



Where it can be used?



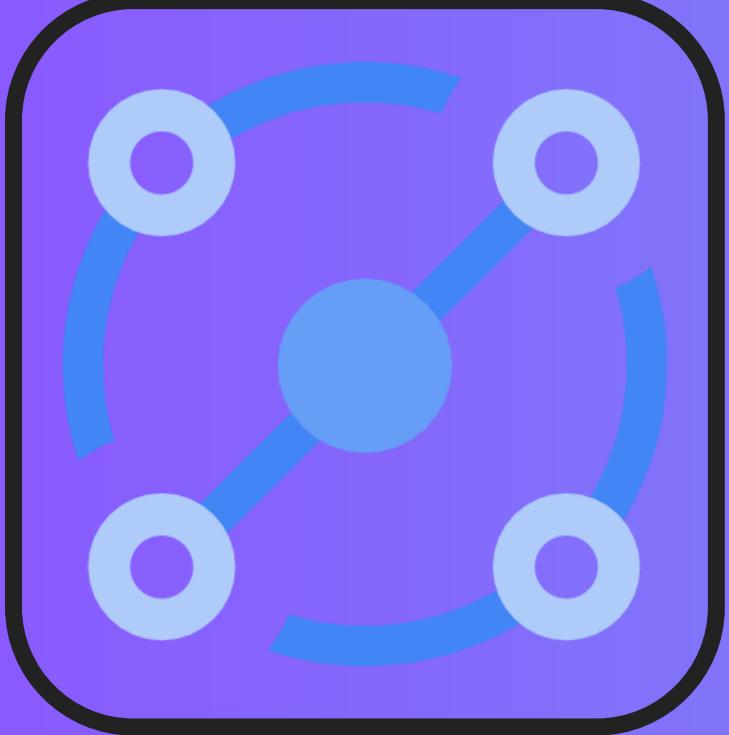
Data Fusion

What it is?

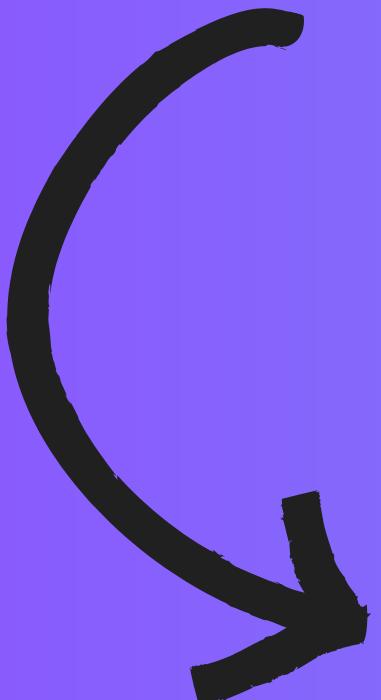


A fully managed service for building and running data pipelines.

To build and run data pipelines to collect, transform, and load data into your data warehouse or other systems.



Where it can be used?



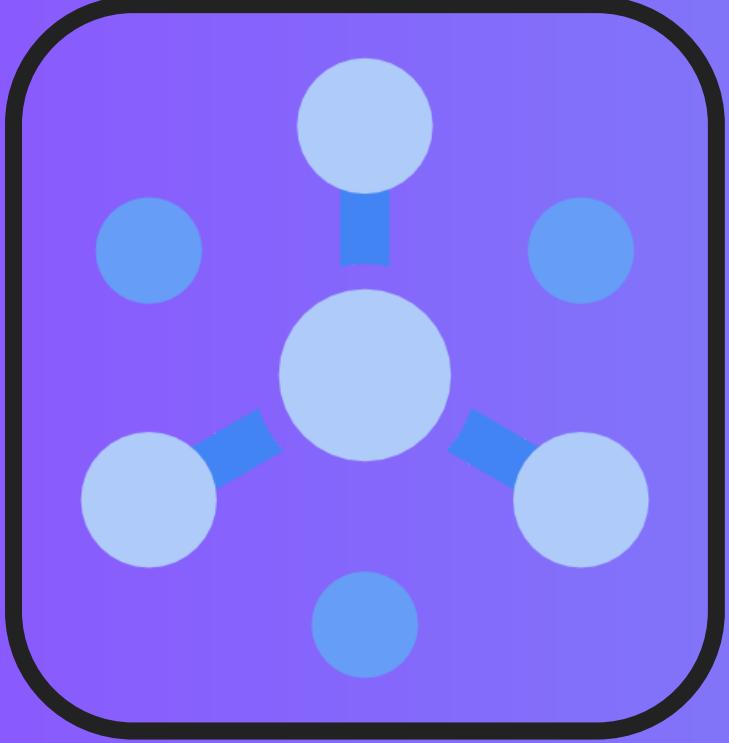
Eventarc

What it is?



A fully managed service for building event-driven applications.

To build event-driven applications that react to events from a variety of sources.



Where it can be used?



Pub/Sub

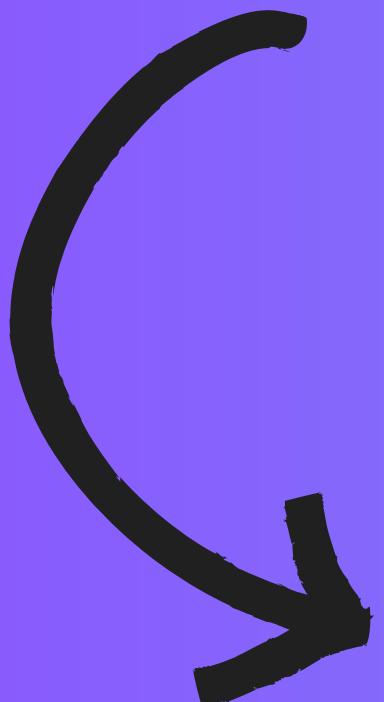
What it is? 

A fully managed real-time messaging service.

To send and receive messages between applications at scale.



Where it can be used?



Firebase Cloud Messaging

What it is?

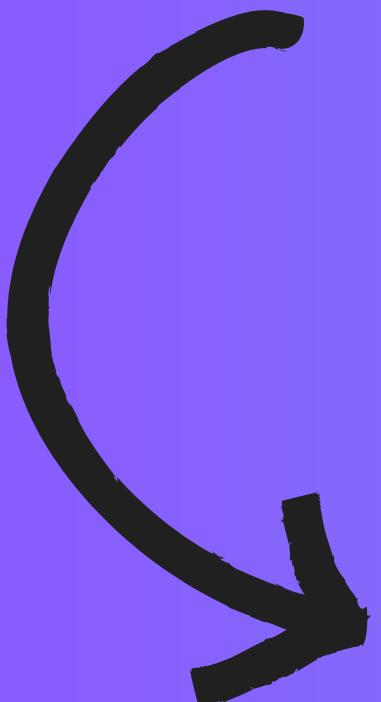


A cross-platform messaging service that allows you to send push notifications to your users.

To send push notifications to your users on iOS, Android, and web devices.



Where it can be used?



Cloud Monitoring

What it is?

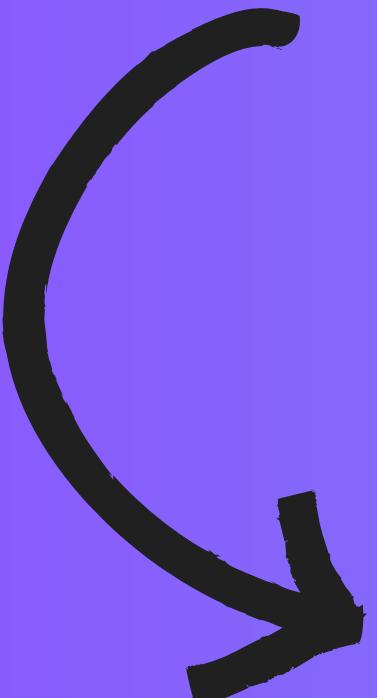


A service that monitors your applications and infrastructure.

To monitor the health and performance of your applications and infrastructure.



Where it can be used?



Deployment Manager

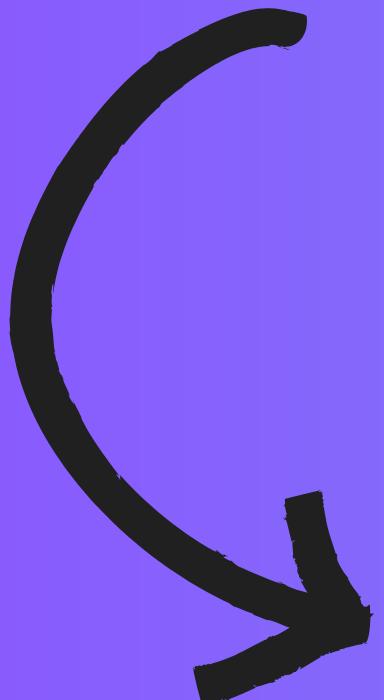
What it is? 

A service that allows you to define and manage deployments of your applications.

To deploy your applications to Google Cloud in a repeatable and consistent way.



Where it can be used?



Cloud Identity

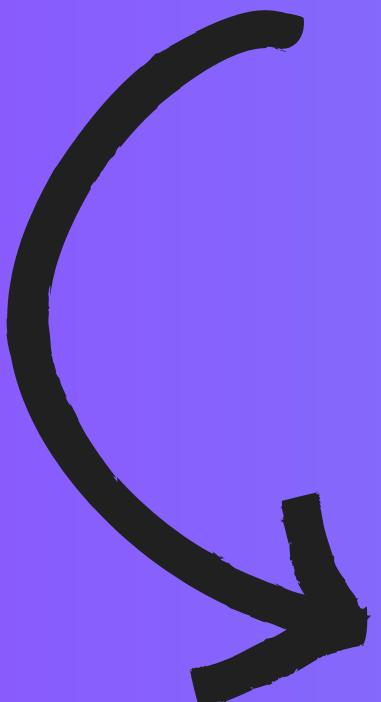
What it is? 

A service that provides identity and access management for your applications.

To manage the identities and access permissions of your users.



Where it can be used?



Cloud KMS

What it is? 

A service that provides key management for your data encryption.

To manage the keys that you use to encrypt your data.

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FREE DevOps
Resources



THANK YOU!