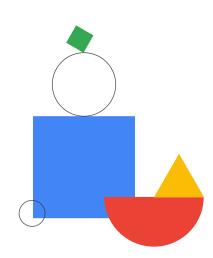
Google Cloud

Architecting with Google Compute Engine

Philipp Maier Mylene Biddle



Google Cloud Ecosystem

- Open-source software
- Providers

- Developers
- Partners

- Other cloud providers
- Third-party software

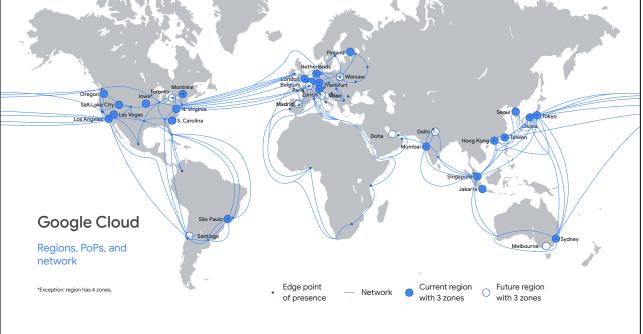
Google Cloud

- Chrome
- Google devices

- Google Maps
- Google Analytics
- Gmail

- Google Search
- Google Workspace (previously G Suite)

Google Cloud



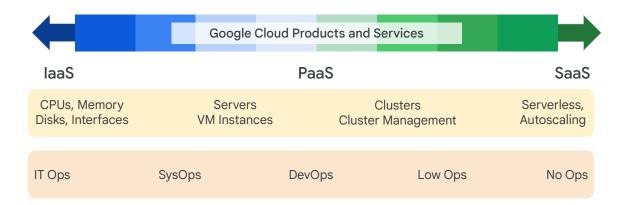
Google Cloud is...

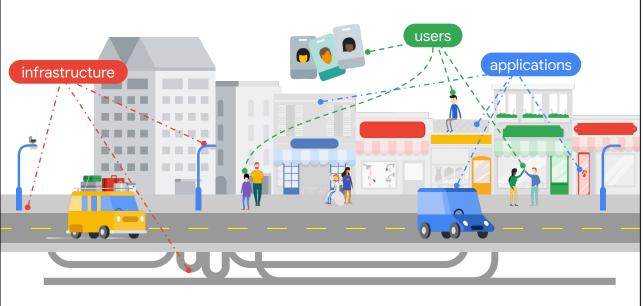


Google Cloud is...



Solution continuum





Google Cloud offers a range of compute services



Compute Engine



Google Kubernetes Engine



App Engine



Cloud Functions



Cloud Run

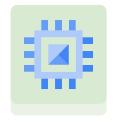
Cloud Run, a managed compute platform that lets you run stateless containers via web requests or Pub/Sub events.

Cloud Run is serverless. That means it removes all infrastructure management tasks so you can focus on developing applications.

It is built on Knative, an open API and runtime environment built on Kubernetes that gives you freedom to move your workloads across different environments and platforms. It can be fully managed on Google Cloud, on Google Kubernetes Engine, or anywhere Knative runs.

Cloud Run is fast. It can automatically scale up and down from zero almost instantaneously, and it charges you only for the resources you use, calculated down to the nearest 100 milliseconds, so you'll never pay for your over-provisioned resources.

Google Cloud offers a range of compute services



Compute Engine



Google Kubernetes Engine



App Engine



Cloud Functions



Cloud Run

Cloud Infrastructure learning path



Cloud Infrastructure

Google Cloud runs on the same global infrastructure that powers YouTube, Gmail, and other Google products used by billions of people around the world. Learn about Google Cloud's approach to infrastructure and implementing, deploying, migrating, and maintaining applications.

- Google Cloud Fundamentals:
 Core Infrastructure
- Architecting with Google Compute Engine
- Architecting with Google Cloud:
 Design and Process



Cloud Infrastructure: **Foundation**



Virtual Networks

Virtual Machines





Cloud Infrastructure: Core Services



01	Identity and Access Management (IAM)
02	Data Storage Services
03	Resource Management
04	Resource Monitoring



Cloud Infrastructure: Scaling and Automation



91	Interconnecting Networks
02	Load Balancing and Autoscaling
03	Infrastructure Automation
04	Managed Services

