

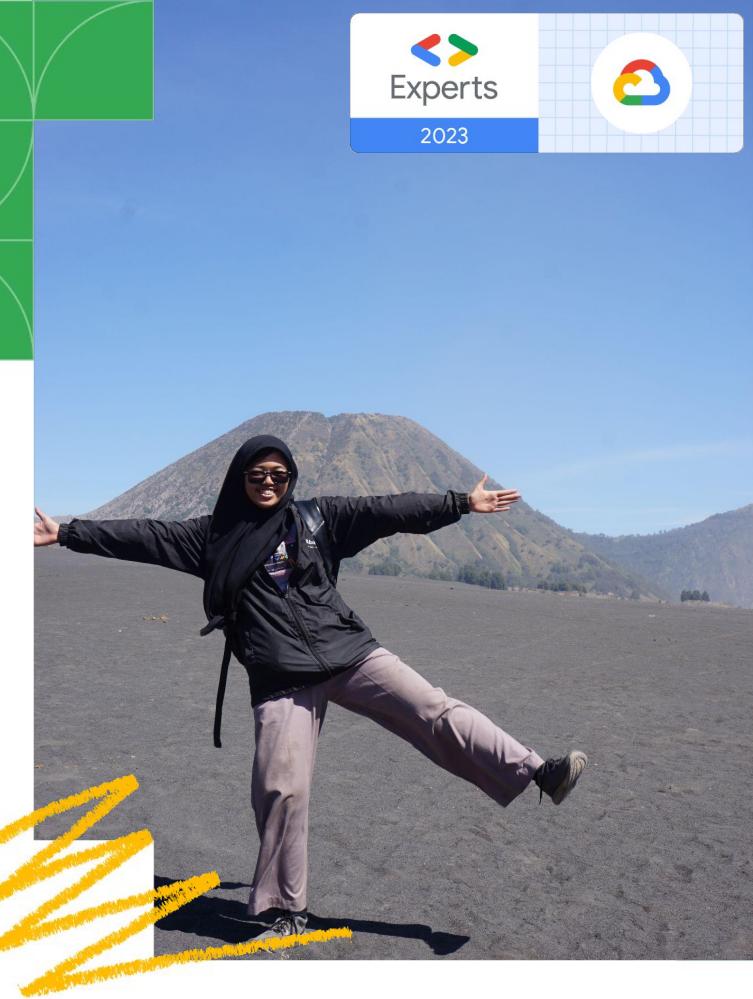
```
// You'll need
// com.google.
listRef.listAll()
  .addOnSuccessListener {
    pictures.forEach {
      // All
      // You
    }
    it.forEach { item
      // the items
    }
  }
}
```

devfest



Cloud Surfing with GCP: A Beginner's Adventure

 Google Developer Groups



Hello Vietnam!

Ananda Dwi Rahmawati

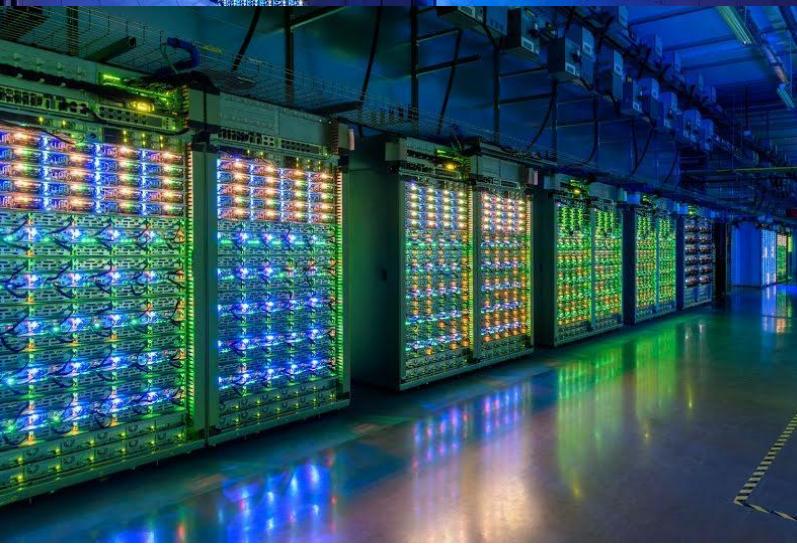
- Cloud Engineer @ Activate Interactive Pte Ltd Singapore | 2023 - present
- 4+ years experience
- GDE Cloud Modernization Apps
- Tech background: System, Networking, IaaS & PaaS Cloud, DevOps, a bit of Programming
- <https://linktr.ee/misskecupbung>



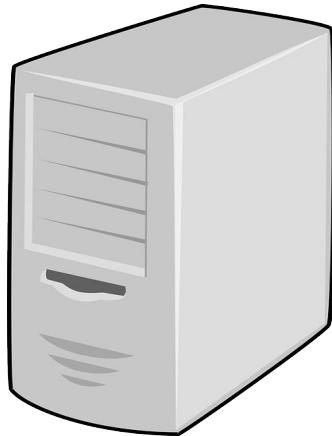
**BY THE WAY, THERE
IS NO CLOUD**

**JUST OTHER PEOPLE'S
COMPUTERS**

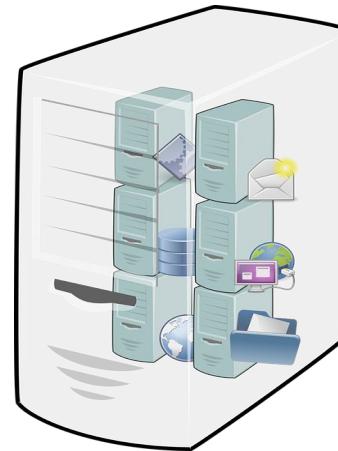
imgflip.com



A virtual machine is a software-based computer



Physical Computer

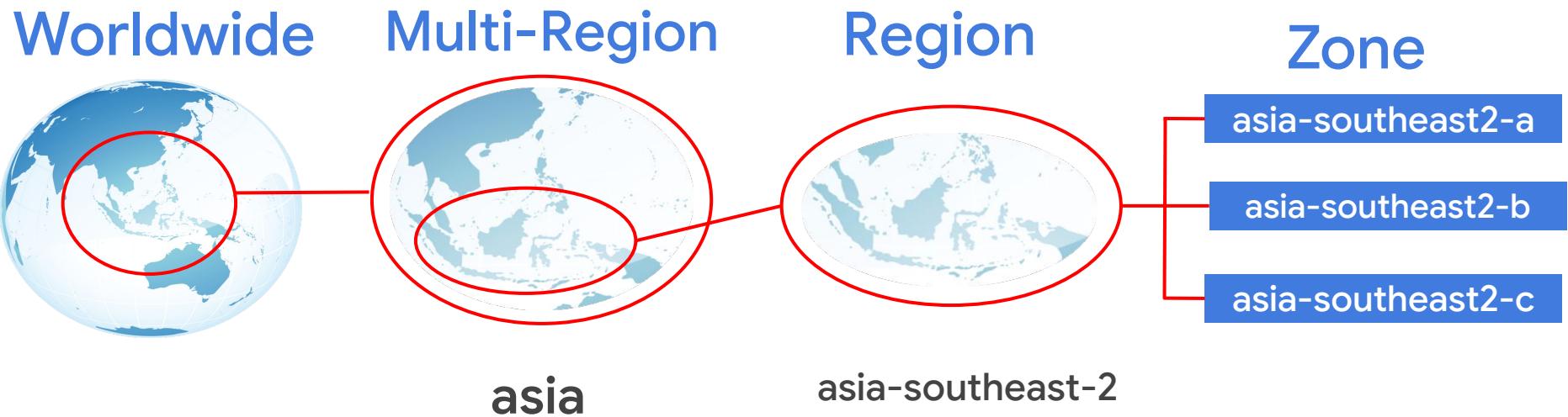


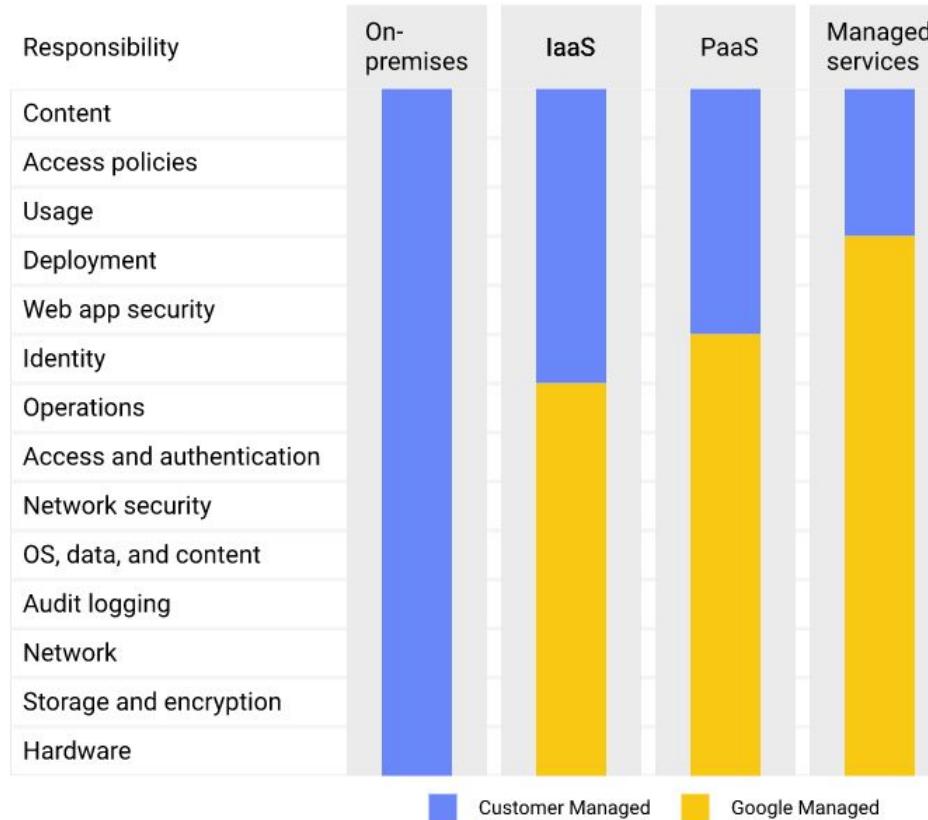
Virtual Machines in a
Physical Computer



- Current region with 3 zones
- △ Future region with 3 zones

Jakarta Region





Cloud Service

Infrastructure



Platform



Software

Google Workspace



... as a service

Benefits of Cloud Computing



Cost savings



Scalability



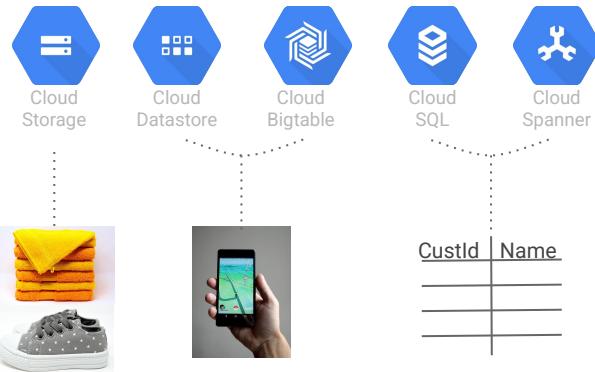
Security



Reliability

No need to manage your own infrastructure. Use managed services instead.

Application Data



Object data like multimedia

High-volume or semi-structured data like streaming or gaming data

Relational data

Application Logic



User data management

API gateways for other backend apps

Payment etc.

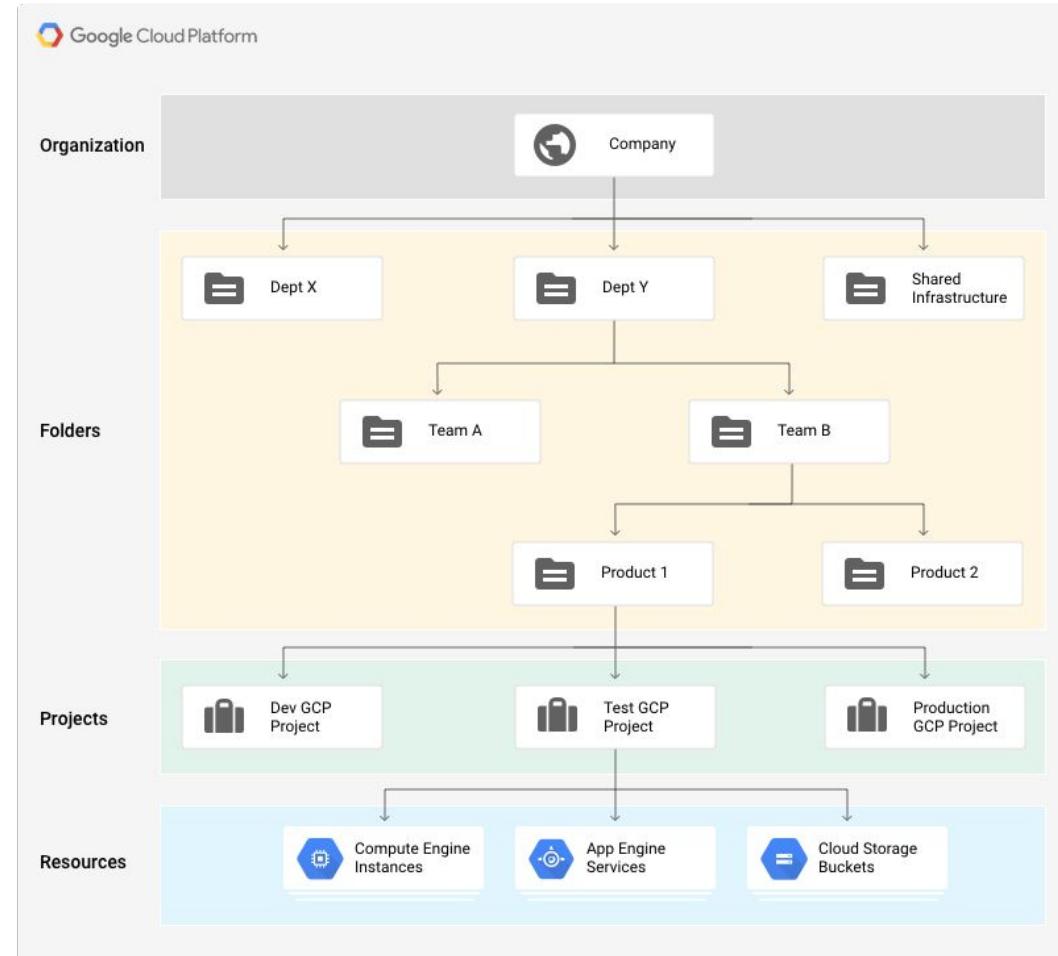
Integration with other Google services



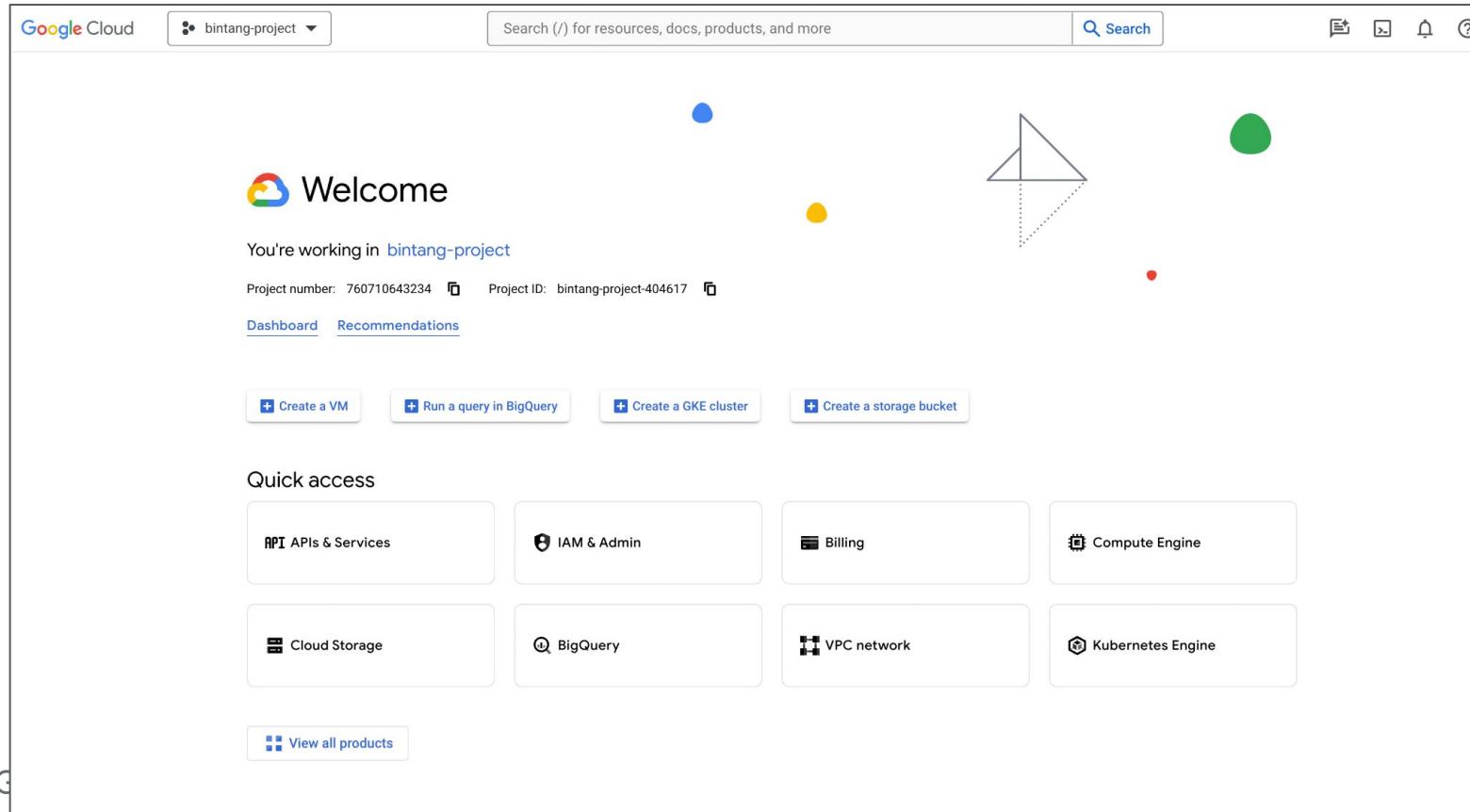
Google Maps, YouTube, and more

GCP Resource Hierarchy

- **Projects** : Base hierarchy level. Every resource is associated with a project.
- **Folders** : Provide additional grouping mechanism between projects. They can be nested.
- **Organization** : Represent an organization and the root node of Google Cloud resource hierarchy



Google Cloud Console



The image shows the Google Cloud Console dashboard. At the top, there is a navigation bar with the Google Cloud logo, a dropdown menu for the project (bintang-project), a search bar, and a 'Search' button. Below the navigation bar, the word 'Welcome' is displayed next to a colorful cloud icon. A message says 'You're working in bintang-project'. Below this, project details are shown: Project number: 760710643234 and Project ID: bintang-project-404617. There are two navigation links: 'Dashboard' and 'Recommendations'. Below these links are four buttons for quick actions: 'Create a VM', 'Run a query in BigQuery', 'Create a GKE cluster', and 'Create a storage bucket'. The main area is titled 'Quick access' and contains eight boxes, each with an icon and a label: 'API APIs & Services', 'IAM & Admin', 'Billing', 'Compute Engine', 'Cloud Storage', 'BigQuery', 'VPC network', and 'Kubernetes Engine'. At the bottom, there is a button labeled 'View all products'. The dashboard features abstract geometric shapes (a triangle, circles, and a hexagon) in blue, green, yellow, and red.

Google Cloud bintang-project

Search (/) for resources, docs, products, and more

Search

Welcome

You're working in [bintang-project](#)

Project number: 760710643234 [Project ID: bintang-project-404617](#)

[Dashboard](#) [Recommendations](#)

[Create a VM](#) [Run a query in BigQuery](#) [Create a GKE cluster](#) [Create a storage bucket](#)

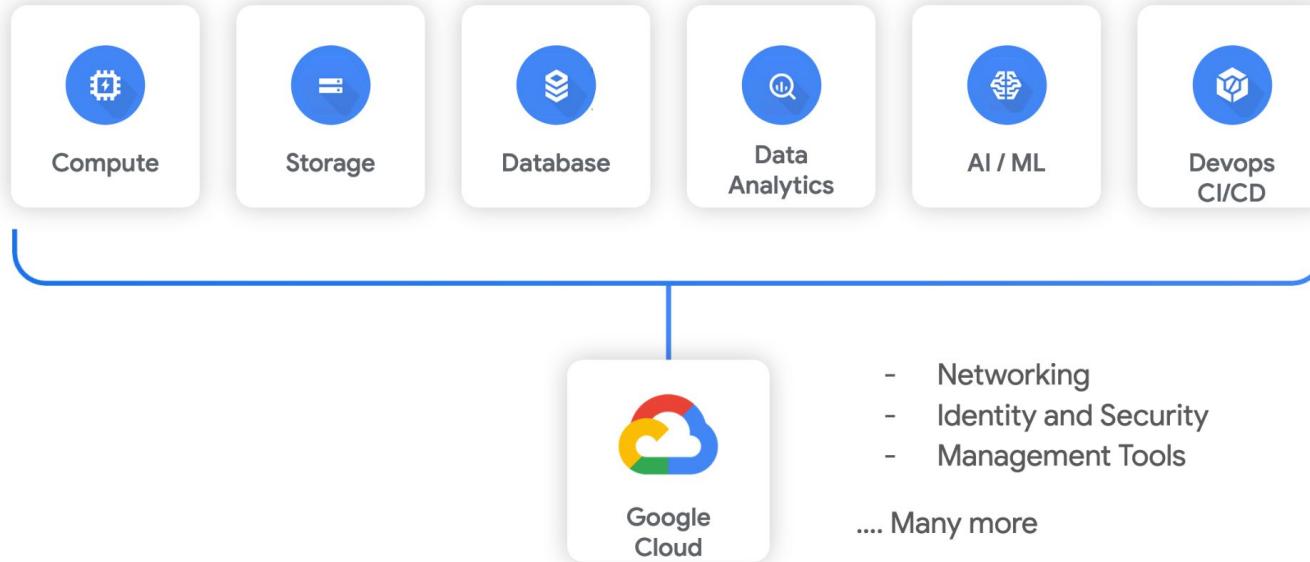
Quick access

[API APIs & Services](#) [IAM & Admin](#) [Billing](#) [Compute Engine](#)

[Cloud Storage](#) [BigQuery](#) [VPC network](#) [Kubernetes Engine](#)

[View all products](#)

Google Cloud Platform (GCP)



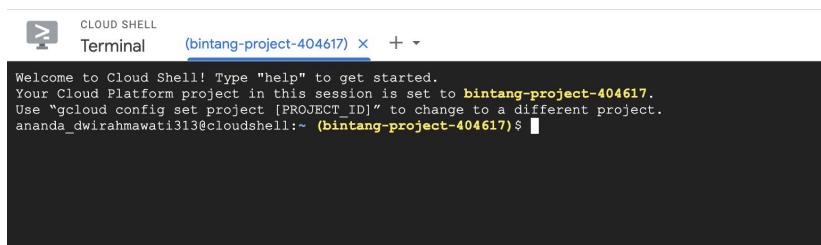
gcloud CLI

gcloud CLI is a set of tools for creating and managing Google Cloud resources:

- Compute Engine virtual machine instances
- Cloud SQL instances
- Google Kubernetes Engine clusters
- Dataproc clusters and jobs
- Cloud DNS managed zones and record sets
- Cloud Deployment Manager deployments

Cloud Shell

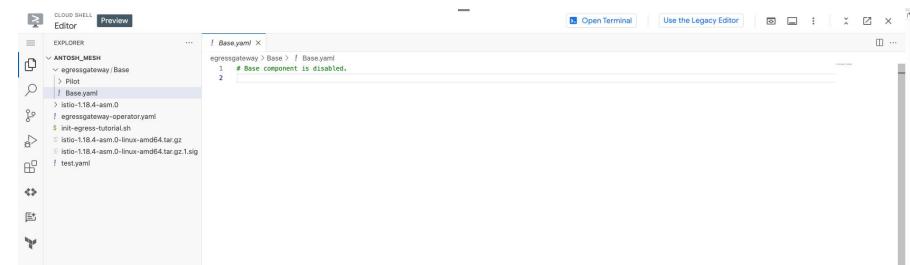
Cloud Shell terminal



CLOUD SHELL
Terminal (bintang-project-404617) +

```
Welcome to Cloud Shell! Type "help" to get started.  
Your Cloud Platform project in this session is set to bintang-project-404617.  
Use "gcloud config set project [PROJECT_ID]" to change to a different project.  
ananda_dwirahmawati313@cloudshell:~ (bintang-project-404617)$
```

Cloud Shell editor



CLOUD SHELL Preview

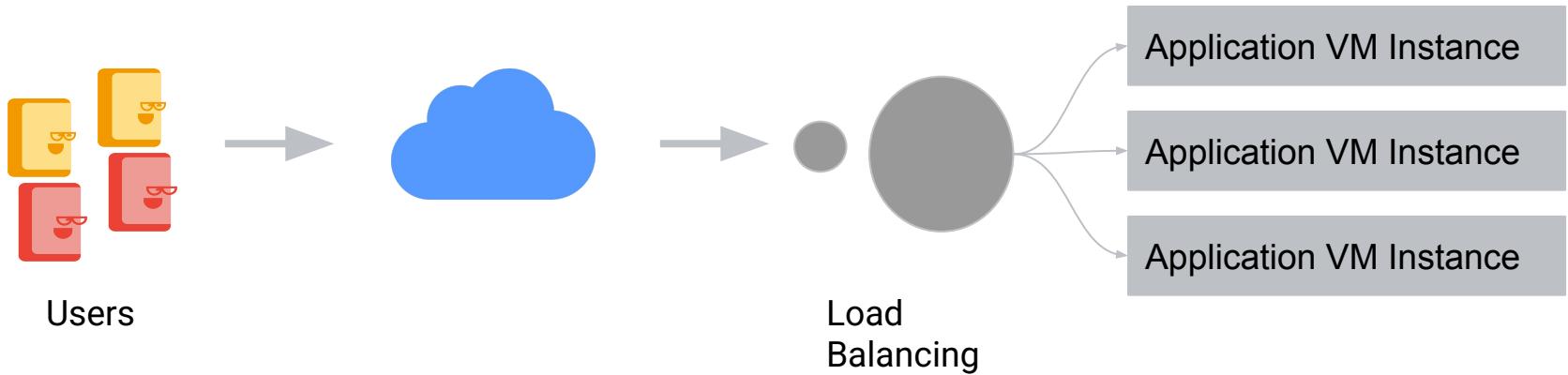
EXPLORER

- AKS-EGRESS-MESH
 - egressgateway/Base
 - ! Base.yaml
 - ! Pilot
 - ! istio-1.18.4-asn.0
 - ! egressgateway-operator.yaml
 - ! istio-1.18.4-asn.0-amd64.tgz
 - ! istio-1.18.4-asn.0-linux-amd64.tgz
 - ! test.yaml

! Base.yaml x

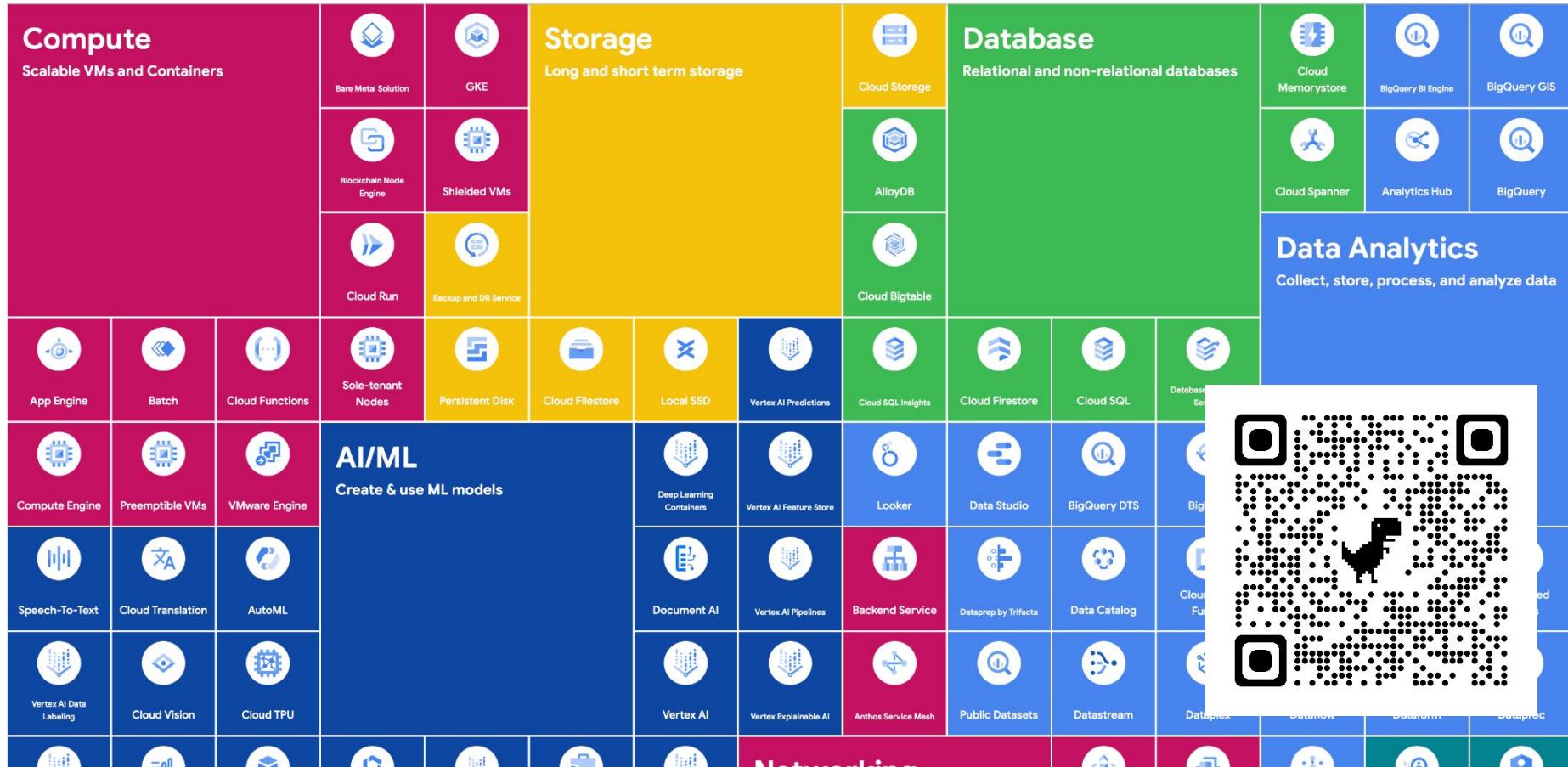
```
egressgateway > Base > ! Base.yaml
1
2 # Base component is disabled.
```

Handle heavy traffic with load balancing

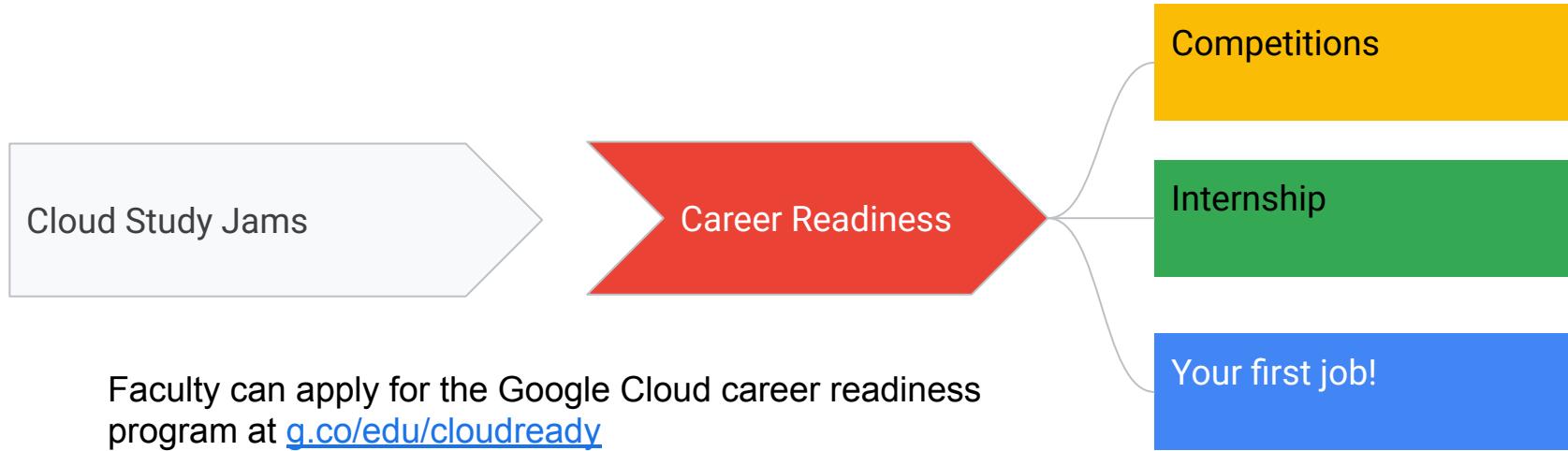


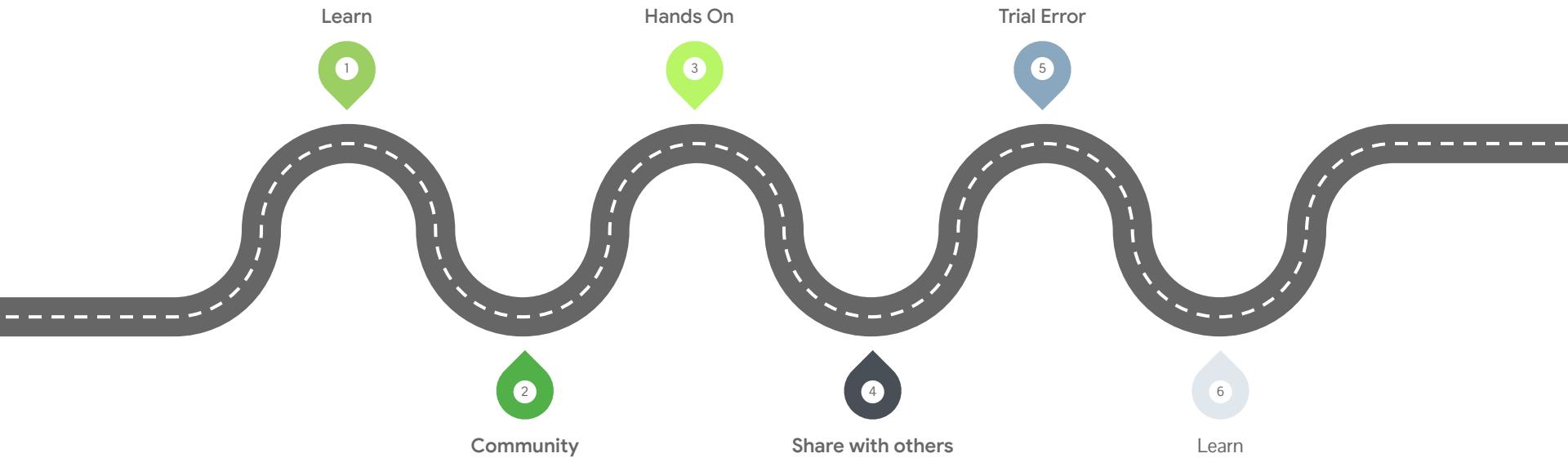
Tips!

1. Use managed services whenever possible
2. Automate tasks to save time and money
3. Monitor your resources and costs
4. Keep your software up to date
5. Have fun!



Leverage cloud skills to launch your startup or land your first job!





Keep the learning going

```
text  
  'Simple Statement or URL',  
  style: TextStyle(  
    color: Colors.green[200],  
  ),  
,
```

devfest

```
s.star,  
r: Colors.green[500],
```

```
Text('23'),
```

<http://goo.gl/googl>
e-cloud-edu

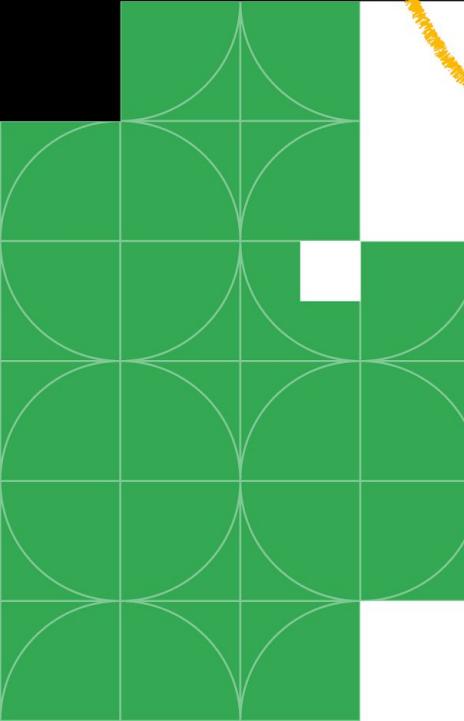


```
text  
'Section Title',  
style: TextStyle(  
  color: Colors.green[200],  
,  
,
```

devfest

```
s.star,  
r: Colors.green[500],
```

```
Text('23'),
```



Thank you!