



# Google Cloud Orientation

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Google Cloud



# Introductions



# GCP Technical Onboarding Overview



# GCP Technical Onboarding Overview

## Kickoff and Orientation

- Orientation session to provide Overview of Google Cloud on all the foundational aspects
- Overview of foundation setup steps and how to provide required inputs

## Foundations Preparation

- Targeted sessions for the different areas of foundations setup.
- Capture required inputs for successful foundations implementation using templates

## Foundations Implementation

- Foundations setup using GCP recommended practices and inputs provided in the templates
- Leverage Cloud Console Setup for IaC based setup

## First Workload Migration

- Pre-work to support First Workload Migration
- Migrate First Workload on to GCP



# GCP Foundations



# Agenda

- 1. Kickoff / Introductions
- 2. GCP Technical Onboarding Overview
- 3. Foundations
  - 1. Cloud Identity and Organisation
  - 2. Users and Groups
  - 3. Administrative Access
  - 4. Billing
  - 5. Resource Hierarchy and Access
  - 6. Network Configuration
  - 7. Logging and Monitoring
  - 8. Organizational Security
  - 9. Support
- 4. Technical Setup Assets
- 5. Questions / Next Steps



# Cloud Identity and Organisation



# Controlling access

Authentication



Cloud Identity

Authorization



Cloud IAM

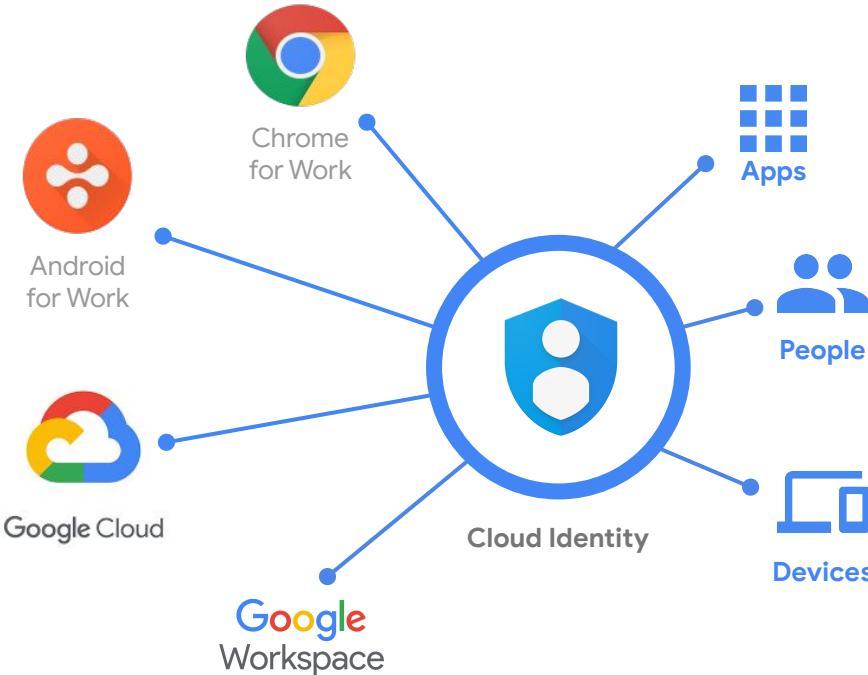
Auditing



Cloud Operations  
Audit Logging &  
Reports API



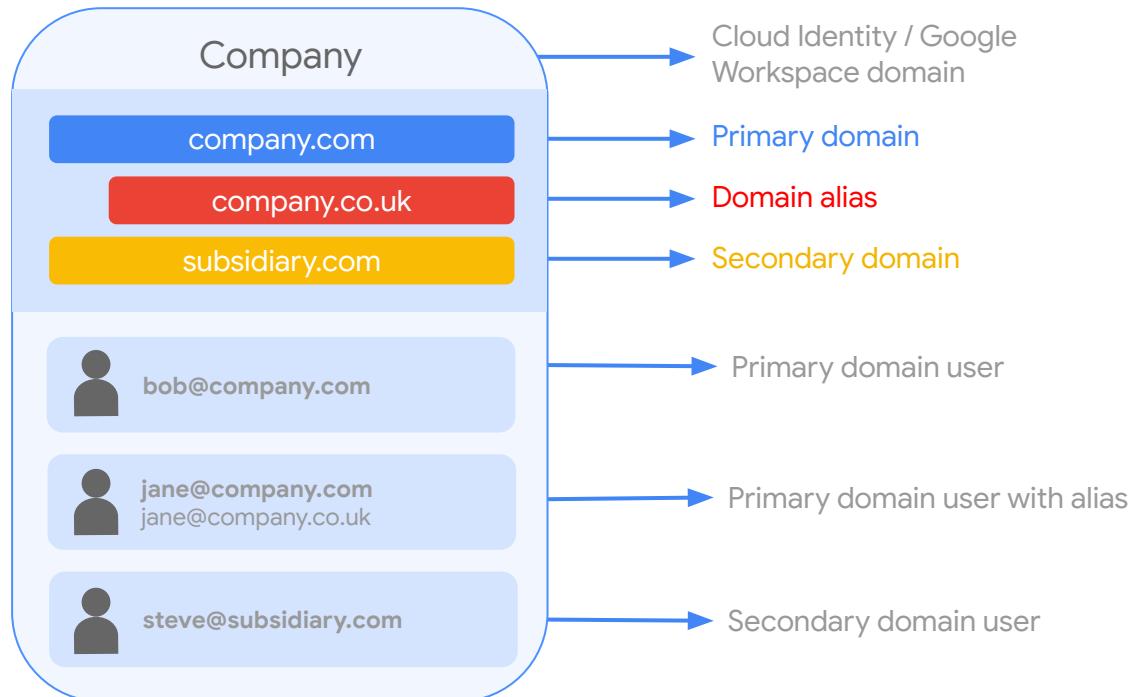
# What is Cloud Identity?



- Cloud Identity is an Identity as a Service (IDaaS) solution that **allows you to centrally manage users and groups** who can access GCP and Workspace resources
- It is the same identity service that powers Workspace and can also be used as IdP for third party applications (supports SAML and LDAP applications)



# Cloud Identity: Key terminology



# Cloud Identity: Free versus Premium

Feature	Details	Free	Premium
<b>Unlimited user cap</b>	With Cloud Identity Free, user cap is 50. Increase is possible based on reputation.	✗	✓
<b>User Security Management</b>	Includes Two Step Verification (2SV) and Security Key management and enforcement	✓	✓
<b>Secure LDAP</b>	Connect LDAP-based apps	✗	✓
<b>Google Security Center</b>	Security information and analytics, added visibility and control into security issues	✗	✓
<b>Admin Console Audit Logs</b>	Audit logs for Admin Console activities	✓	✓
<b>BigQuery export</b>	Audit logs export to BigQuery	✗	✓
<b>Cloud logging integration</b>	Send Cloud Identity logs to Cloud Logging	✓	✓
<b>SLA</b>	99.9%	✗	✓
<b>Session Length Control</b>	Control the duration of authentication tokens. (Always available for Google Cloud)	✗	✓

# Two consoles & Two key admin functions

	(CI) Super Admin	(Cloud IAM) Org. Admin
Role	GCP Org. Admin by default	Can add/assume any other IAM roles
Manages	User/group account lifecycle and Org's security settings	IAM policies and Resource Manager hierarchy
Delegates	GCP Org. Admin role and CI admin roles	GCP IAM roles to users and groups
Managed in	Admin console	GCP console
Visibility	Cloud Identity and GCP environments	GCP environment

The screenshot shows the Google Admin (Cloud Identity) interface. It features a sidebar with links like Home, Directory, Devices, Apps, Security, Reporting, Billing, Account, and Rules. The main area has sections for 'Users' (with links to 'Groups', 'Organizational units', and 'Buildings and resources'), 'Billing' (with a link to 'Large subscriptions and billing'), and 'Admin roles' (with a link to 'Manage administrative roles'). There is also a 'Company profile' section.

Cloud Identity  
(admin.google.com)

Managing Users, Groups, and Authentication settings



(Cloud Identity)  
Super Admin

The screenshot shows the Google Cloud Platform (GCP) console. It includes a sidebar with links for Home, Compute Engine, BigQuery, Marketplace, Billing, APIs & Services, Support, IAM & admin, Getting started, Security, Compute, and App Engine. The main area displays various monitoring and management dashboards, such as one for Compute Engine showing CPU utilization over time.

GCP Console  
(console.cloud.google.com)

Roles and Authorisation for GCP



(Cloud IAM)  
Organization Admin



# Super admin best practices

- **Protect every Super Admin with a Security Key**

Security

- Keep a backup security key in a secure location
- Disable device trust
- Limit web session length
- Set recovery phone and email options, and ensure the recovery email is secure and protected with 2SV. Domain DNS access to verify domain ownership is needed in the event that you lose access to super admin accounts if a recovery email/phone was not set up.

- **Do not use Super Admin as a regular account.**

Best practice

- Super Admin has a powerful set of permissions that is not necessary for day to day. Create a dedicated super admin account and lock away

- **Limit the number of Super Admin accounts**

Best practice

- Assign more than one Super Admin

- **Apply the principle of least privilege**

Best practice

- Delegate setup and management of GCP organization resources to other users and assign fundamental Cloud IAM roles to users to ensure separation of duties

Super Admins bypass SSO!



# User authentication options

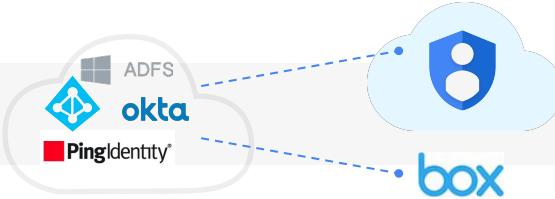
1

Google authentication — No SSO



2

Single sign-on (SSO) — External Identity Provider



# Key decisions

1

What will be the primary domain for Cloud Identity?

2

Are you an existing Workspace/Cloud Identity customer? Or is your domain already registered with Google?

2a

If yes, do you have access to super-admin account?

2b

If no, who would be your super-admin? What would be the username of super-admin?



# Users and Groups



# User provisioning options

Method	Effort	Staff involved	Notes
Manual provisioning	High	Workspace admin	Easiest method, but not scalable
CSV upload via Admin Console	Medium	Workspace admin	More flexibility, but not scalable
Google Cloud Directory Sync	Medium	LDAP Admin	Integrates with LDAP, scalable, requires no programming
Third party tools (Okta, Ping, ...)	Medium	LDAP admin	Scalable, may incur additional cost
Admin SDK Directory API	High	LDAP Admin Development staff	Scalable, flexible, requires in-depth programming



# Google account types

## Cloud Identity managed account

An account created under a Cloud Identity instance that has centralized administration controls and security options, such as:

- User management
- SSO authentication
- 2-step verification
- Audit reports
- API access

## Google consumer account

An account created to access consumer products such as AdWords, YouTube, Blogger, and so on.

Google consumer accounts can be created with a verified email login account (e.g., user@company.com) or with Gmail accounts (e.g., user@google.com).

Google recommends avoiding the use of consumer accounts with GCP.

Best Practice

**Use Cloud Identity to centrally manage and administer your end user accounts**



# Conflicting accounts

**What are they?** A personal Google account with the same email address as a Cloud Identity account

**How they occur** Employees utilized Google services before the organization adopted Google Cloud

Proactively identify conflict accounts using the **transfer tool for unmanaged users**  
<https://admin.google.com/AdminHome#ConsumerInvite>:

## What to do

Consider whether a conflict account is a semi-official account using Google business services such as AdWords or DoubleClick, or published marketing materials in YouTube

1) Invite users to join the domain. Users will keep their account but become managed (it requires user action and can't be "forced" in any way)

## Options

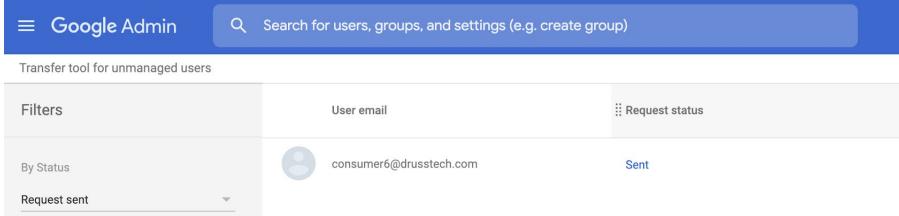
2) Provision the user, group, or alias in the Admin Console. Any consumer user using the same address will be "evicted" and will be prompted to select a new email address for their consumer identity



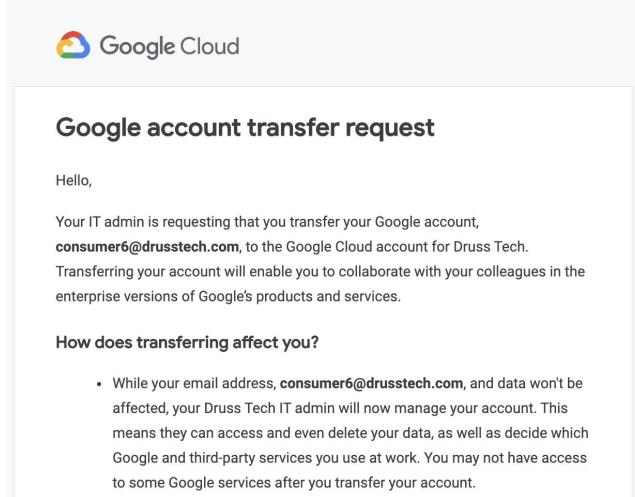
# Transfer tool for unmanaged users

## Best practices:

- Warn users in advance that this is happening
- Advise them on recommended action
- If they are using Docs, Sheets, or Drive, and you are only using Cloud Identity, users may lose access depending on permitted services and licensing in Google Admin
- Consider adding a business license to account to allow certain users access to Workspace apps



The screenshot shows the Google Admin interface with a blue header bar containing the text "Google Admin" and a search bar. Below the header, the title "Transfer tool for unmanaged users" is displayed. A table lists user information: "User email" (consumer6@drusstech.com) and "Request status" (Sent). Filters are applied by "Status: Request sent".



The email subject is "Google account transfer request". The message body starts with "Hello," followed by a description of the account transfer request from the IT admin. It explains that the user's account will be transferred to the Google Cloud account for Druss Tech, enabling collaboration with colleagues. The "How does transferring affect you?" section includes a bullet point about the IT admin managing the account and potentially deleting data.

**Google account transfer request**

Hello,

Your IT admin is requesting that you transfer your Google account, [consumer6@drusstech.com](mailto:consumer6@drusstech.com), to the Google Cloud account for Druss Tech. Transferring your account will enable you to collaborate with your colleagues in the enterprise versions of Google's products and services.

**How does transferring affect you?**

- While your email address, [consumer6@drusstech.com](mailto:consumer6@drusstech.com), and data won't be affected, your Druss Tech IT admin will now manage your account. This means they can access and even delete your data, as well as decide which Google and third-party services you use at work. You may not have access to some Google services after you transfer your account.



# Key decisions

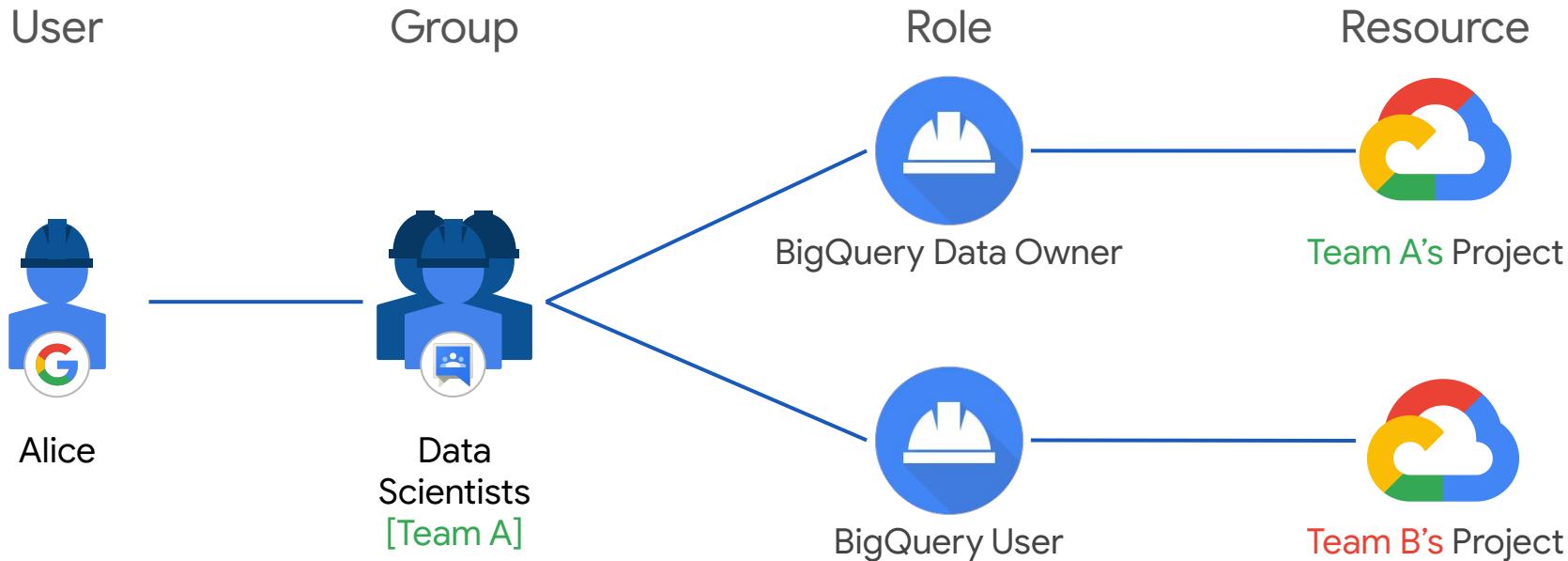
- 1 Who would be your Identity Provider? Google, On Prem AD, Azure AD etc?
- 2 How will users be provisioned to Cloud Identity?



# Administrator Access



# Grant Roles to Groups, not Users



# Example: Org-level groups



## Org admin

- Define IAM policies
- Determine structure of the resource hierarchy
- Create projects, until org is mature



## Billing admin

- Set up a billing account
- Monitor usage



## Network admin

- Create networks, subnets, network devices (cloud routers, cloud VPNs, and cloud load balancers)
- Maintain firewall rules, unless maintained by the security admin



## Security admin

- Establish policies and constraints for the entire organization
- Establish IAM roles for projects
- Maintain visibility on logs and resources



## Logging admin

- Administer all resources belonging to Logging

*Important: Audit users with permissions to add/remove users from groups.*

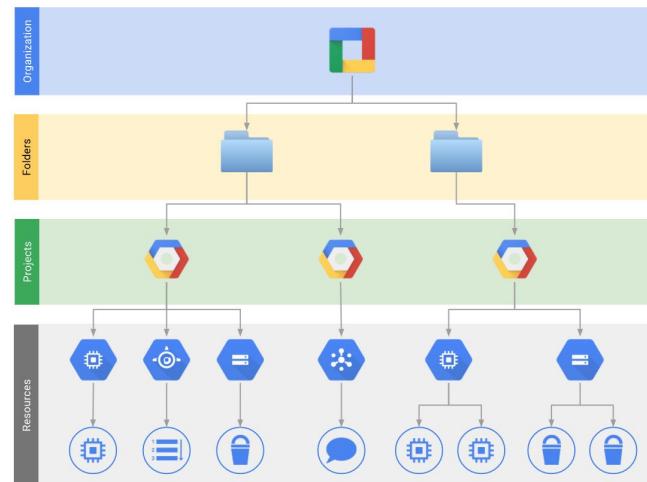


# Example: Org admin group



Role	IAM Area	Description
Org admin	Resource Manager	Manage IAM assignments for the org node
Folder admin	Resource Manager	Create folders, manage their IAM assignments, and place projects into folders
Project creator	Resource Manager	Create projects (eventually delegated)
Billing account user	Billing	Associate the billing account to projects (eventually delegated)
Org Role Admin	Roles	Admin all custom roles
Organization Policy Administrator	Org Policy	Manage Organisation Policies
Security Center Admin	Security Center	Manage and Administer Security Center
Support Account Admin	Support	Manage GCP support subscriptions

► gcp-org-admins@



# Key decisions

- 1** Who should be assigned the Organization Administrator role?
- 2** Who should be assigned the Network Administrator role?
- 3** Who should be assigned the Security Administrator role?
- 4** Who should be assigned the Billing Administrator role?

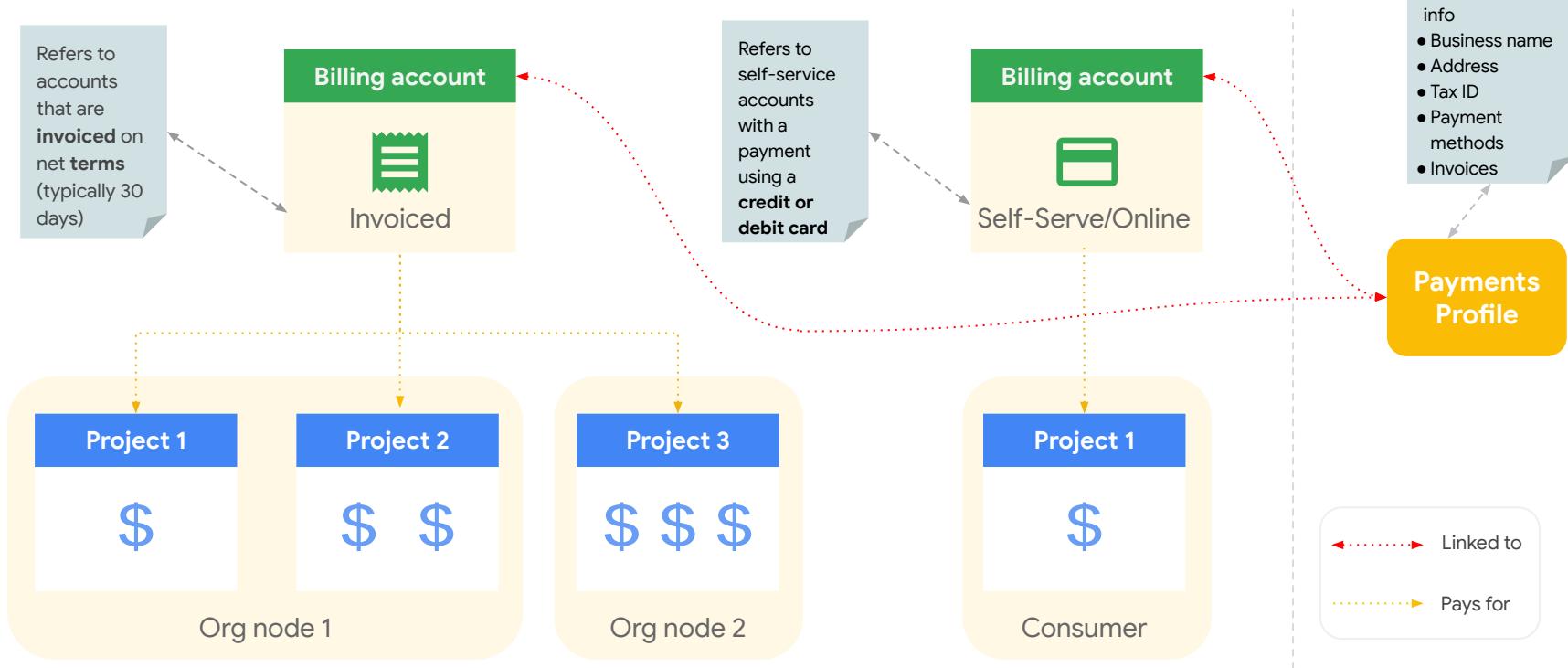


# Billing

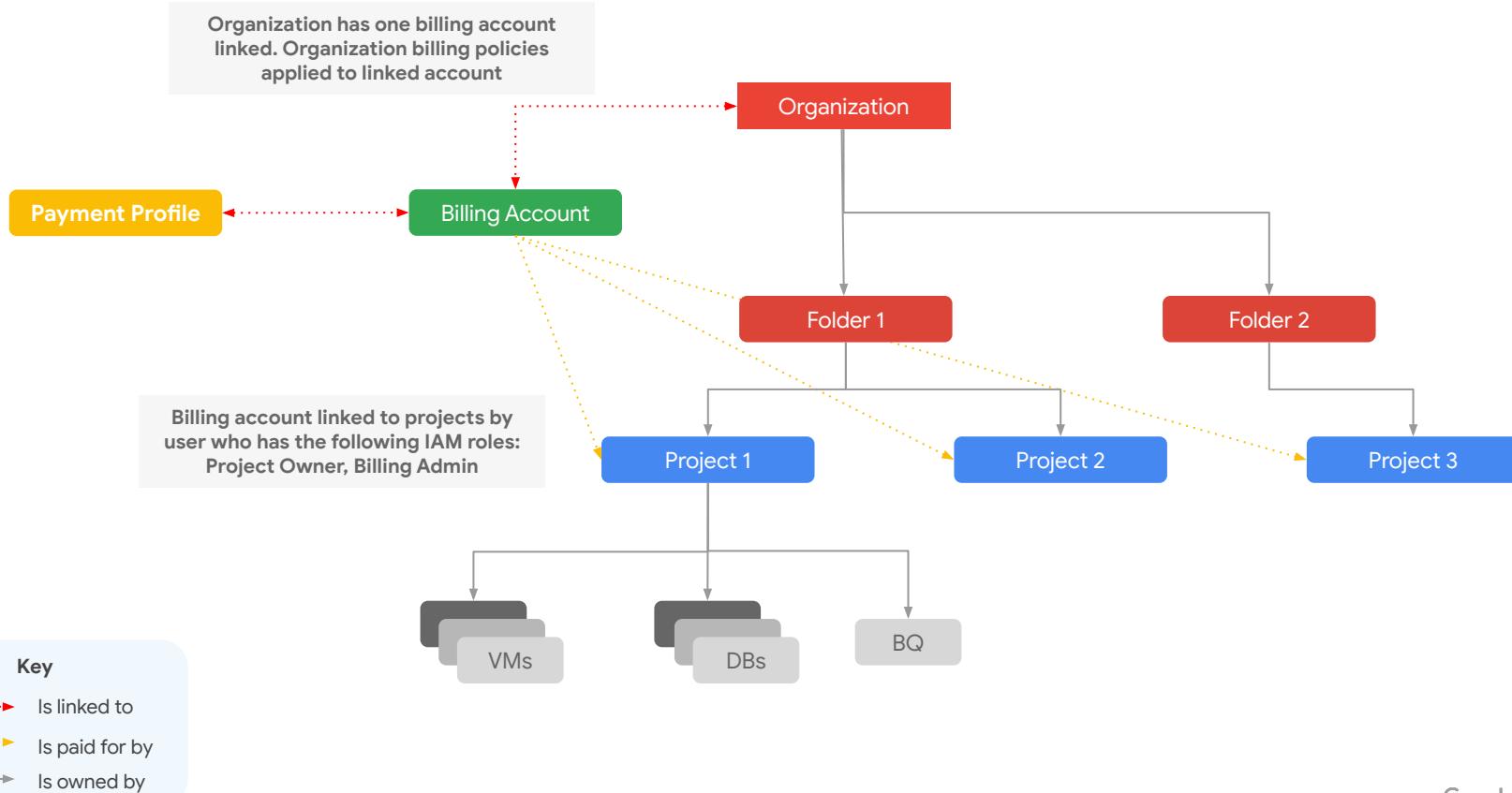


# What are billing accounts?

- Billing accounts are payment vehicles for your GCP spend. They come in **two** types:



# Single Billing Resource Hierarchy



# Key decisions

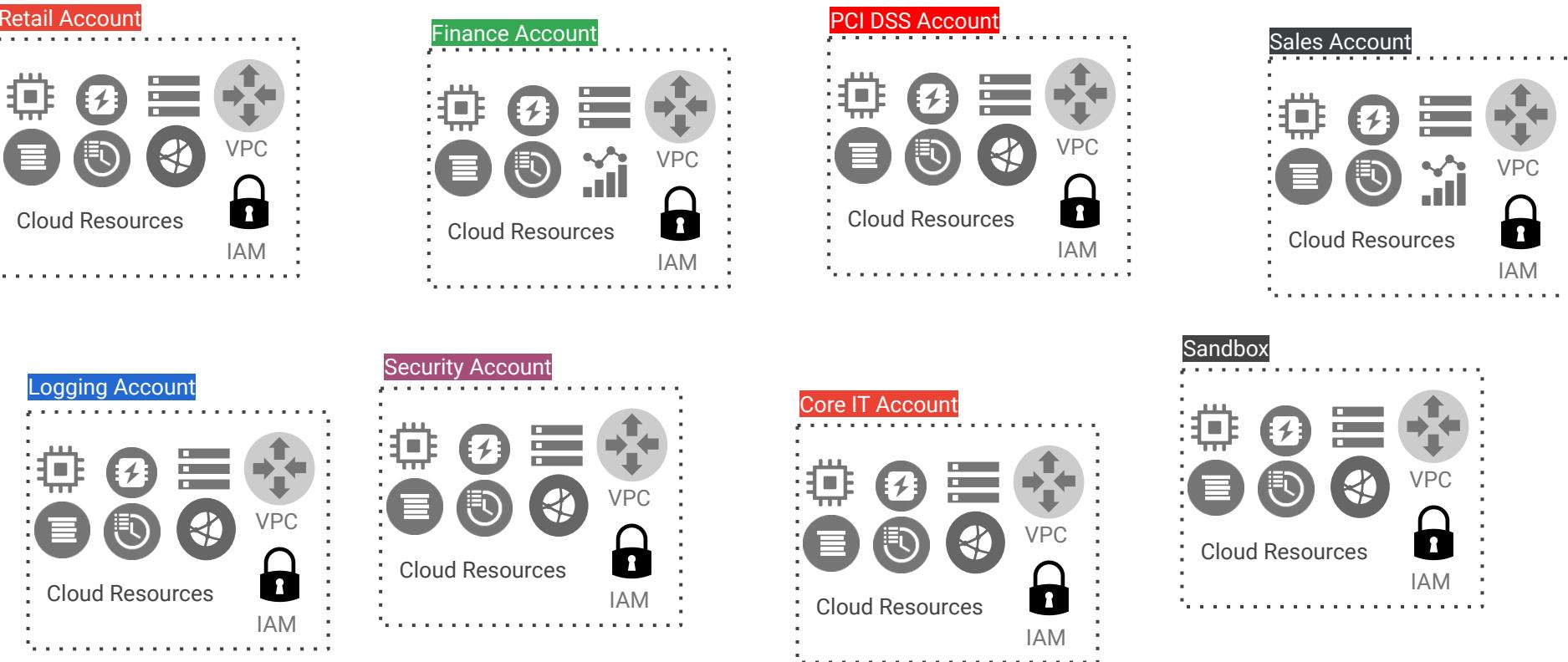
- 1** Do you already have a billing account that should be used for this engagement?
  
- 2** If yes, is it self-serve/online or invoiced billing?



# Resource Hierarchy

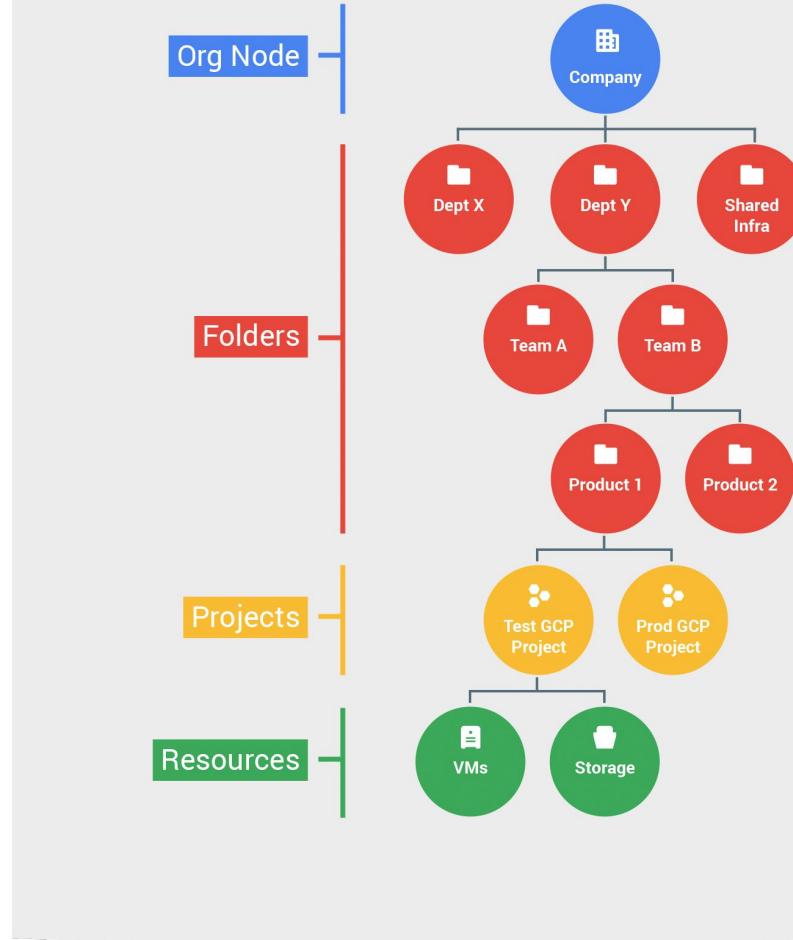


# The challenge of Cloud account silos



# Enter Resource Manager

- Organizes Cloud Platform resources
- Facilitate governance when applying IAM permissions and security controls
- 3 main resource containers
  - Organization
  - Folders
  - Projects



# Resource Hierarchy Components



## Organisation

- Root node and hierarchical super-node of projects
- Closely associated with a **Workspace / Cloud Identity** account
- Single directory containing the **organization's users and groups**
- Apply policies across all resources: **IAM policies, Organization policies**

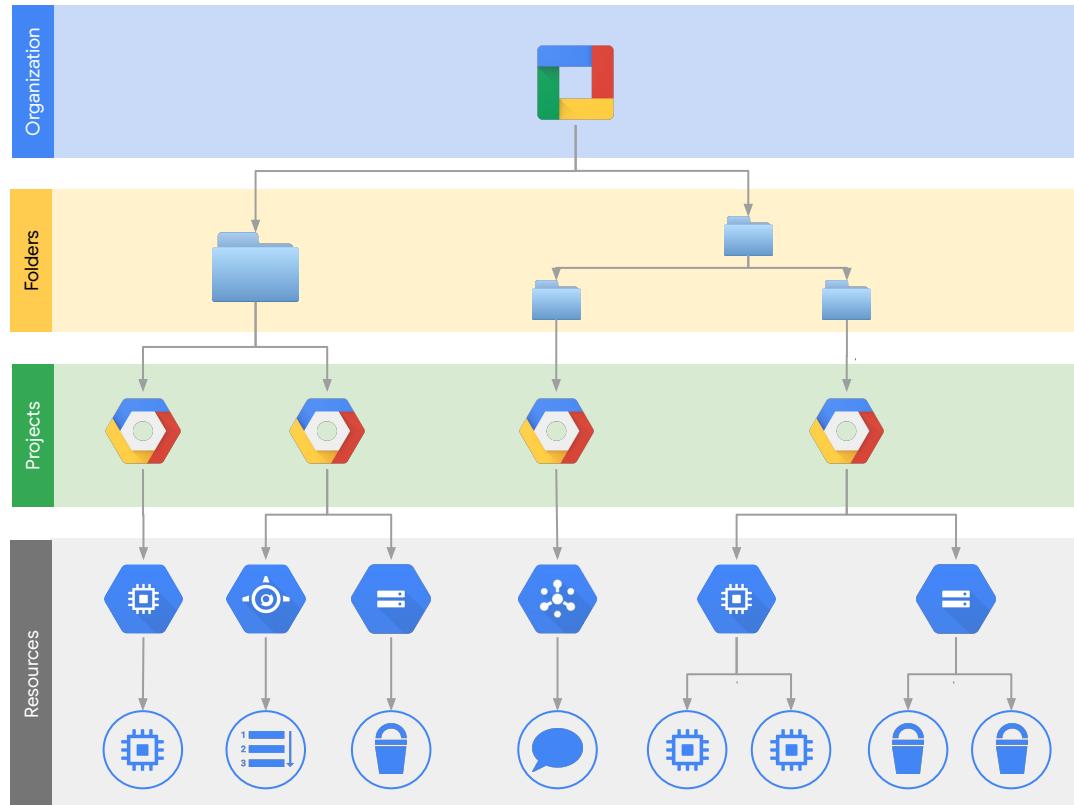
## Folder

- Grouping similar projects together to **consistently apply policies** (IAM and Organization policies)
- **Enumerating** projects that belong to parts of the organisation
- **Integration** with other functionalities (e.g: BigQuery slot reservation hierarchy)
- Up to **ten levels deep** (hard limit)

## Projects

- Contains **resources**
- Projects are **completely separate** from one another. Useful to **group related resources** from a functional and access standpoint.
- An **IAM enforcement point**
- Provisioning is **simple and free of charge**

# Resource hierarchy

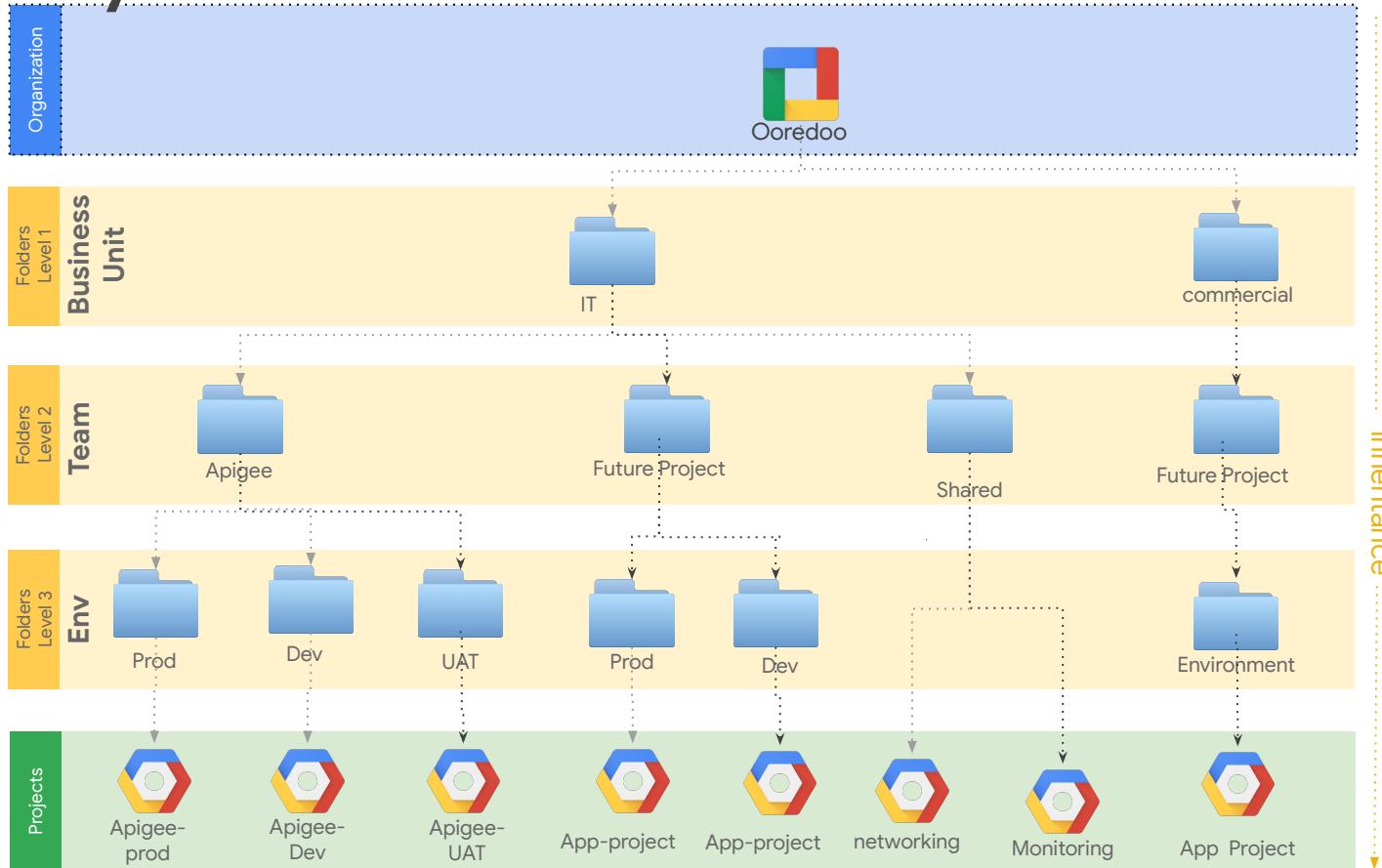


Top-down access  
inheritance:  
Additive only

The effective policy for a resource is the union of the policy set at that resource and the policy inherited from its parent.



# Approved by Ooredoo: Business Unit oriented hierarchy



# Key decisions

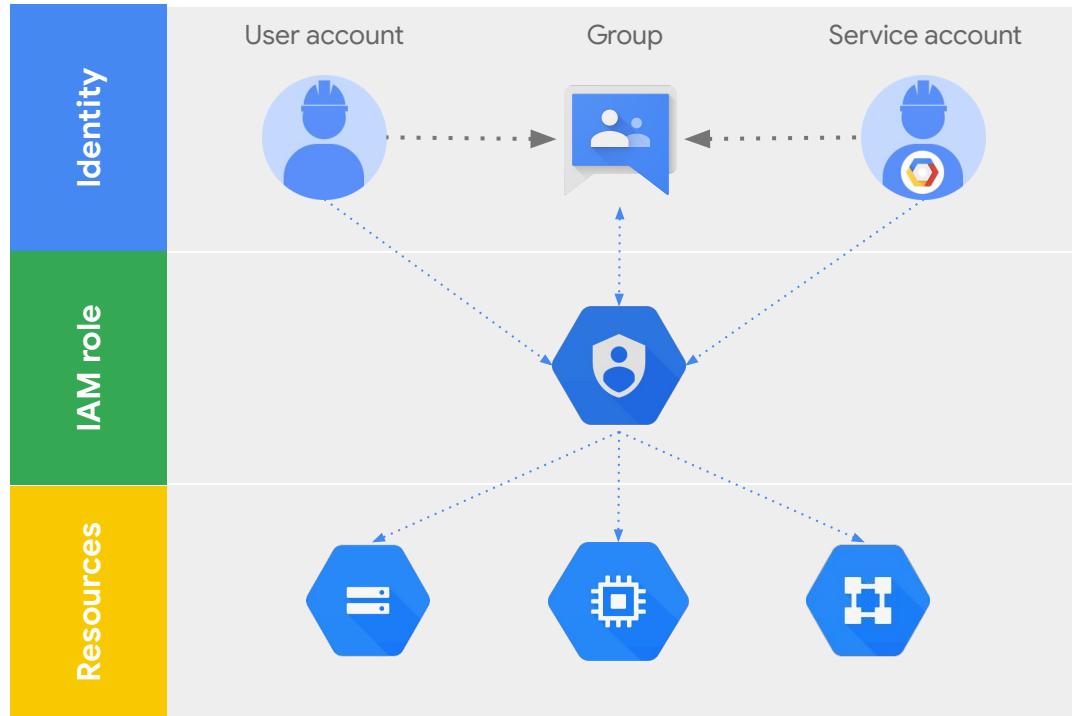
- 1** Which Resource Hierarchy Model you would like to adopt? Env, Team or BU?
  
- 2** Details of Env, Business Unit and Teams



# Identity & Access Management



# IAM policy



# IAM roles

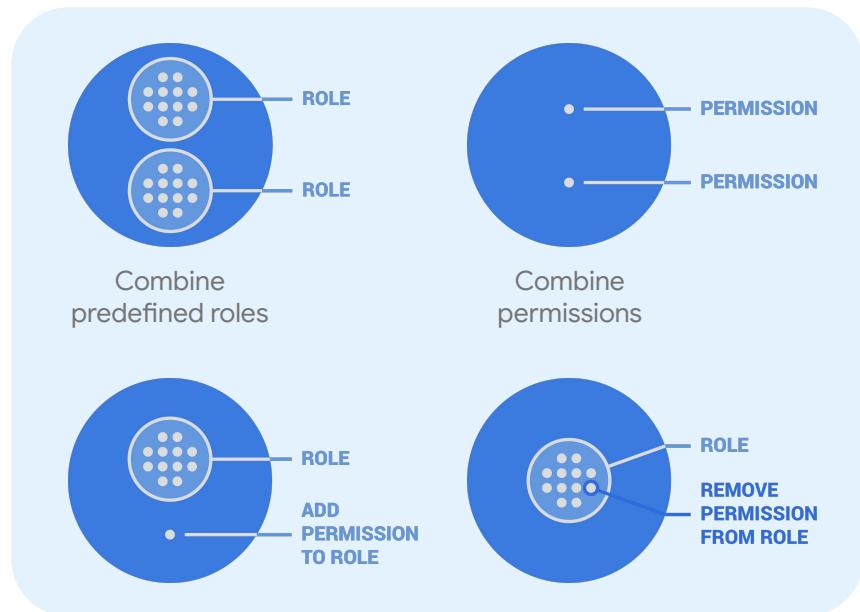
- ▶ Roles are a collection of **permissions** that may be assigned to **users**, **groups**, and **service accounts**.
- ▶ **Permissions** grant the ability to execute specific API calls. For example: compute.instances.create

Primitive roles	Predefined roles	Custom roles
Legacy GCP roles that grant broader set of permissions (Owner, Editor, Viewer)	More granular roles than primitive, based on job function	Ability to create roles with specific permissions desired



# Custom roles

- ▶ **Predefined roles** provide permissions (specific actions allowed) bundled together for various job functions.
- ▶ **Custom roles** provide granular control over the exact permissions provided to a role
  - Review available roles and their permissions through [Roles](#) page in Cloud Console
  - Custom roles may be defined at the organizational level



# IAM conditions



Who



can do  
what



on which  
resource



under which  
conditions

Use case	Example
Grant time limited IAM policies	<ul style="list-style-type: none"><li>Support engineer requires temporary access to production.</li><li>Only allow access during working hours.</li></ul>
Give access to a <b>subset of resources</b> within a project	Team member only requires access to GCE instances starting with 'webapp-frontend'
Condition access based on <b>context-aware access levels</b>	<ul style="list-style-type: none"><li>Only grant Editor role when accessing from corporate network</li><li>Only grant Viewer role when accessing from trusted devices</li><li>No access otherwise</li></ul>

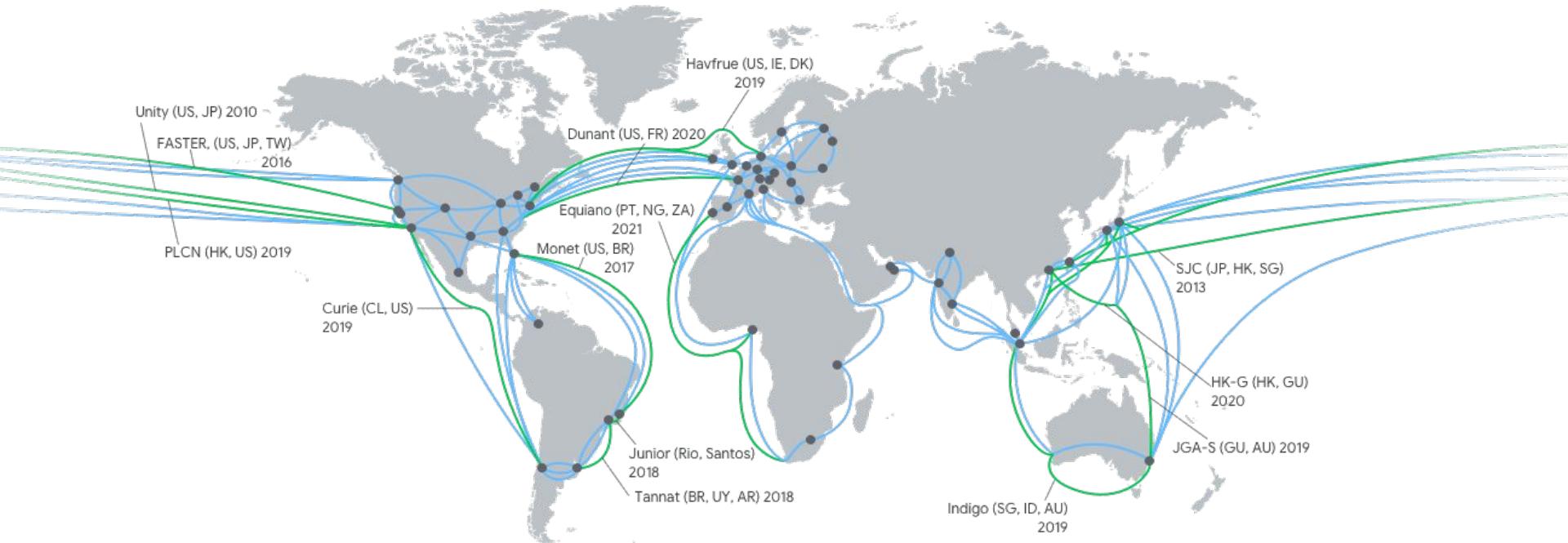


# Network Configuration



# Google's global network infrastructure

*Hundreds of thousands of miles of fiber optic cable connecting all of our data center regions and 100+ points of presence.*



# Network tiers

Premium

Standard



# Network concepts

Project

Network (VPC)



Region

Zone a

Zone b

Zone c

Subnet

192.168.0.0/16



Subnet

10.0.0.0/8

Region

Zone a

Zone b

Subnet

172.16.0.0/12



# Subnet creation modes

## Best Practice

### Custom subnet mode

- Network admin **defines subnets** and IP ranges
- No default firewalls rules
- **Expandable** to any RFC-1918 size
- Good for
  - **Production** environments
  - **Preventing CIDR overlap** between environments

VPC networks					
Name	Region	Subnets	Mode	IP addresses ranges	Gateways
default		17	Auto		
	us-central1	default		10.128.0.0/20	10.128.0.1
	europe-west1	default		10.132.0.0/20	10.132.0.1
	us-west1	default		10.138.0.0/20	10.138.0.1
	asia-east1	default		10.140.0.0/20	10.140.0.1
	us-east1	default		10.142.0.0/20	10.142.0.1
	asia-northeast1	default		10.146.0.0/20	10.146.0.1
	asia-southeast1	default		10.148.0.0/20	10.148.0.1
	us-east4	default		10.150.0.0/20	10.150.0.1
	australia-southeast1	default		10.152.0.0/20	10.152.0.1
	europe-west2	default		10.154.0.0/20	10.154.0.1
	europe-west3	default		10.156.0.0/20	10.156.0.1
	southamerica-east1	default		10.158.0.0/20	10.158.0.1
	asia-south1	default		10.160.0.0/20	10.160.0.1
	northamerica-northeast1	default		10.162.0.0/20	10.162.0.1
	europe-west4	default		10.164.0.0/20	10.164.0.1
	europe-north1	default		10.166.0.0/20	10.166.0.1
	us-west2	default		10.168.0.0/20	10.168.0.1
vpc-network-a		1	Custom		
	us-east1	subnet-network-a		10.1.0.0/16	10.1.0.1

### Auto subnet mode

- Default network **when project is created**
- **Default /20** subnetwork per region
- **Expandable** up to /16
- Subnets created as new regions are launched
- Comes with **default FW rules** (e.g. TCP 22)
- Good for isolated use cases (PoCs, testing)



# Private Google Access

Compute instances require public IP addresses to communicate directly with resources outside of their network.

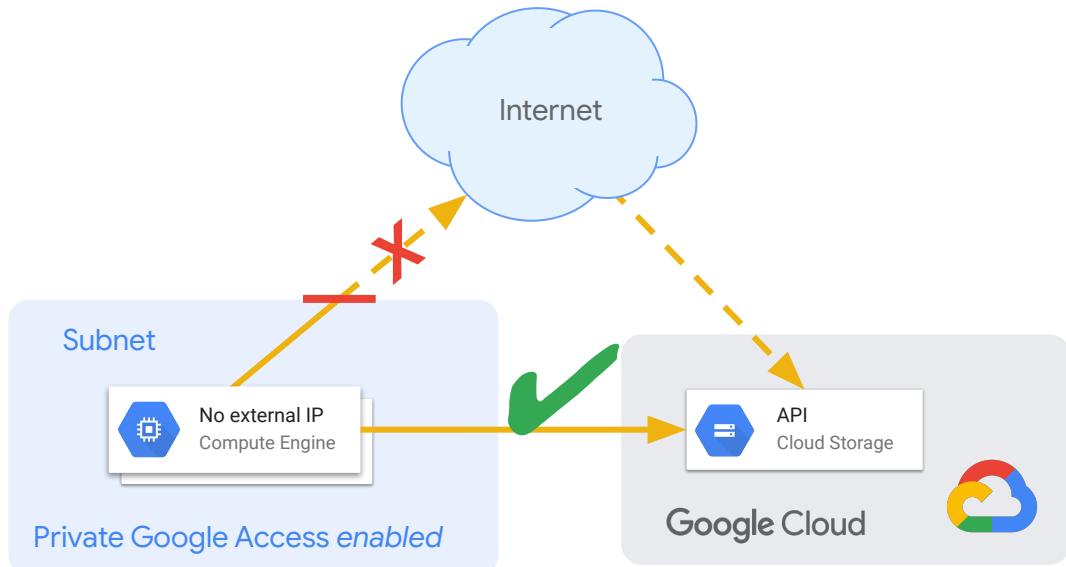
## Problem:

Instances without public IP addresses can't access Google Cloud's public API endpoints.

## Solution:

Enable **Private Google Access** in the subnetwork the instance is attached to.

Can be stretched to on-premise through Cloud VPN or Cloud Interconnect



# Cross project communication

	Shared VPC	VPC Peering	Cloud VPN
Network services management <small>(Firewalls, subnets, routes, VPN, DNS)</small>	Central management of shared network resources	Clear network and security administrative boundaries	Clear network and security administrative boundaries
Transitivity	N/A	Non-transitive	Transitive
Scale	1000 service projects or more, depending on multiple factors	Up to 25 peered networks	Approximately 100 connected projects
Pricing	General network pricing	General network pricing	General network pricing. Excluding intra-zone traffic which is <u>billed</u> as interzone.
Performance implication	None	None	Throughput limited based on number of tunnels (1.5 to 3 Gbps per tunnel)



# Shared VPC overview

## Centered around 2 types of Google Cloud projects



### Host Project

Contains networking resources that are **SHARED** with service projects.

#### Example:

- VPCs and Subnets
- Cloud NAT
- Firewall Rules

Managed by a central networking team



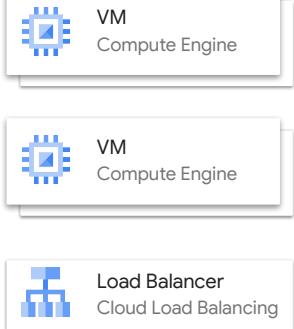
### Service Projects

Application-level resources are created there, using the networking resources in the HOST project.

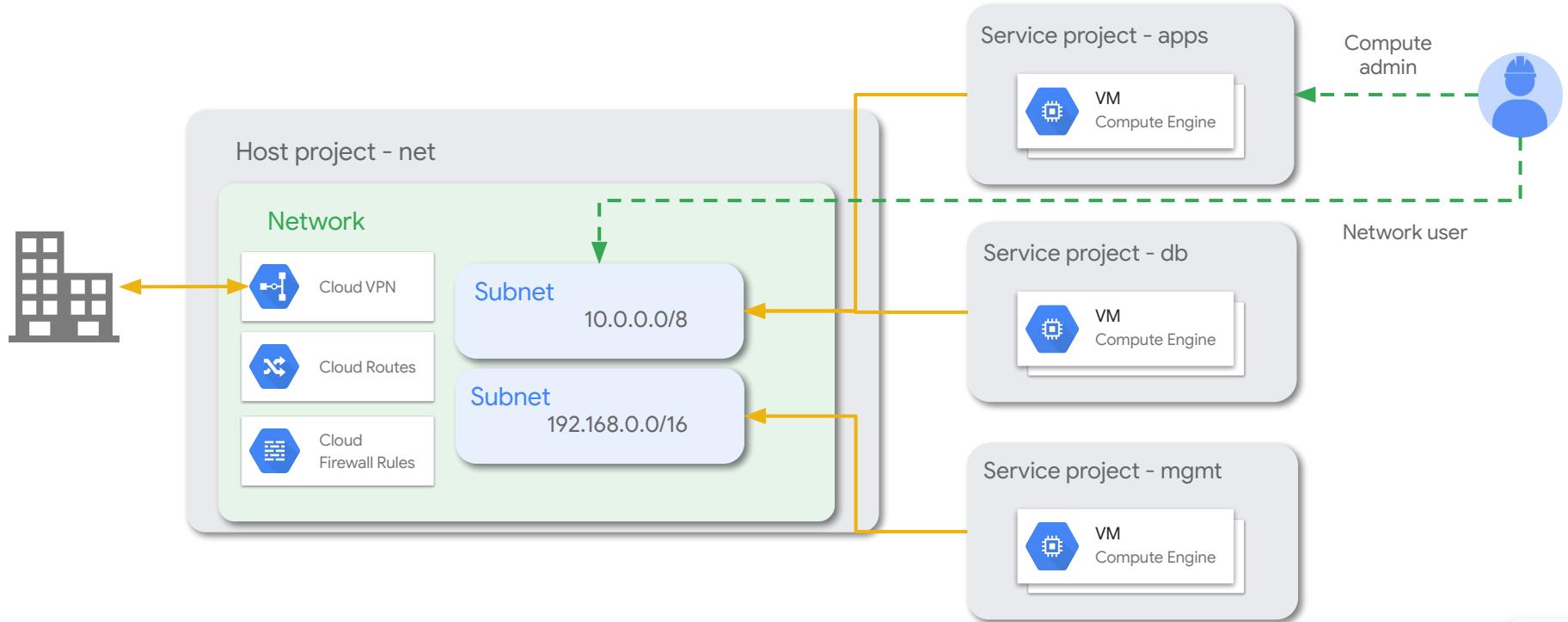
#### Example:

- Compute Engine instances
- Load Balancers

Managed by application teams



# Shared VPC networks



# VPC network best practices

## Custom mode VPCs

Prevent overlapping IPs and control subnet creation by creating VPCs with custom subnet creation mode.

## Use Shared VPC

Reduce management and topology complexity by making use of Shared VPC where fit.

## Fewer subnets

Group similar applications into fewer, more manageable and larger subnets.



# Connectivity options



## Public Internet (IPSEC VPN)

- Fastest way to connect to the cloud or between clouds
- Leverages existing internet network connectivity
- Supports high availability and aggregated bandwidth with **1.5 to 3 Gbps per tunnel**
- Static/dynamic (BGP) based VPN



## Cloud Interconnect

- Enterprise-grade, private connectivity to GCP
- Provisioned as a dedicated link to a Google PoP or via a partner
- Dedicated Interconnect: Highest bandwidth with **10 Gbps and 100 Gbps links**
- Partner Interconnect offers more flexible subscriptions (**50 Mbps to 10 Gbps**)

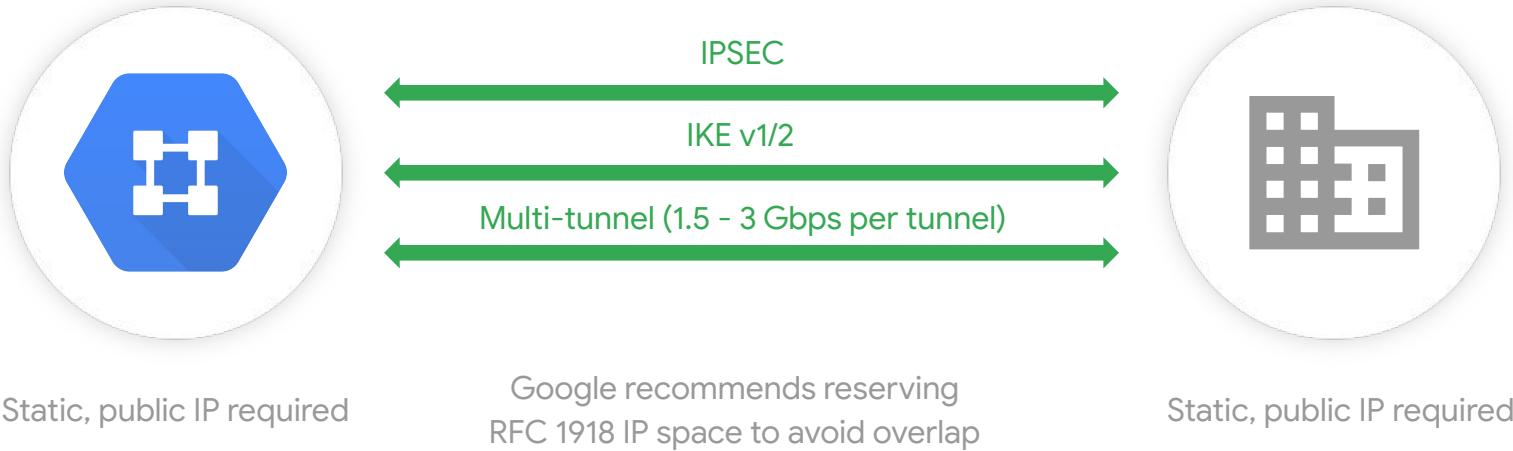


## Peering

- Access Workspace and Google services, as well as GCP with reduced egress rates
- Utilizes existing BGP route selection and internet routing
- Greater control of peering facilities
- Direct or carrier



# Cloud VPN



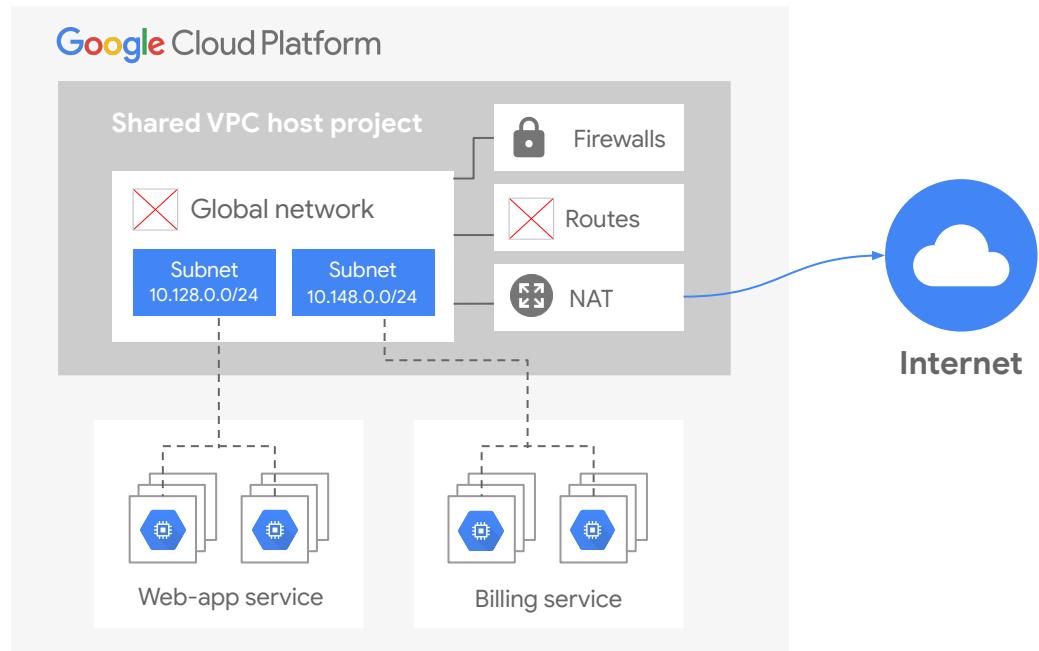
# Cloud NAT

Managed NAT solution

Improved security, only outbound connections to the Internet

Scales seamlessly

- Static IPs
- Auto-allocated IPs
- Not proxy based, single NAT gateway scales to thousands of VMs in a region



# Key decisions

- 1** Which Subnets do you need in Prod and Non-prod Environments?
- 2** Do you need to enable Google Private Access?
- 3** What is the VPN device on your on-prem/other CSP?
- 4** Do you need to enable NAT?



# Logging & Monitoring



# Logging

## Collect

[Automatic logging](#) to Cloud Operations on all GCE and GKE VMs

Logs organized [by project](#)

Additional [log parsing](#) through custom fluentd configuration

## Export

Export to [Google Cloud Storage](#), or [Pub/Sub](#), or [BigQuery](#)

Export [log-based metrics](#) to Cloud Operations Monitoring

## Analyze

Analyze log data [in real-time](#) with [Pub/Sub](#), [Dataflow](#) and [BigQuery](#)

Analyze [archived logs](#) from [Cloud Storage](#)

## Retain

Cloud Operations retains logs for [30 days](#) and admin logs for [400 days](#)

[Longer retention](#) available in Google Cloud Storage or BigQuery



# Logging type overview



## Admin audit logs

- Admin console audits
- User audits
- Separate API and UI
- Export to BigQuery (eSKU and TT)



## GCP audit logs

- Admin activity logs (always enabled)
- Data access logs (disabled by default)
- Access transparency (disabled by default)



## Cloud Operations logging agent

- FluentD agent
- Common third-party applications
- System software

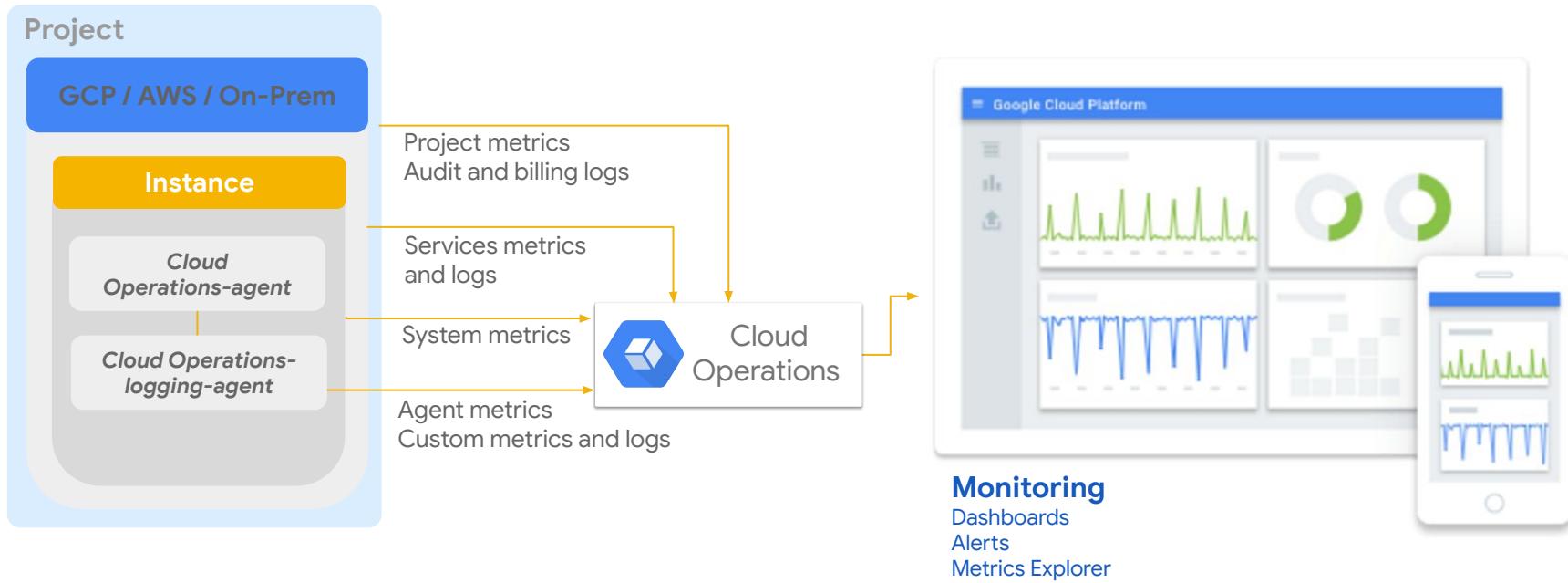


## Network logs

- VPC flow
- Firewall rules
- NAT gateway



# Resource monitoring



# Aggregation levels



## Project

A **project-level log sink** exports all the logs for a **specific project**.

A **log filter** can be specified in the sink definition to include / exclude certain log types.



## Folder

A **folder-level log sink** aggregates logs on the folder level.

You can also include logs from children resources (subfolders, projects).



## Organization

An **organization-level log sink** aggregates logs on the organization level.

You can also include logs from children resources (subfolders, projects).



# Organizational Security



# Organization policies

The [Organization Policy Service](#) constrains the allowed resource configurations. Policies can be applied to the **org**, **folders**, and **projects**.

Requires IAM role: Organization policy / organization policy administrator

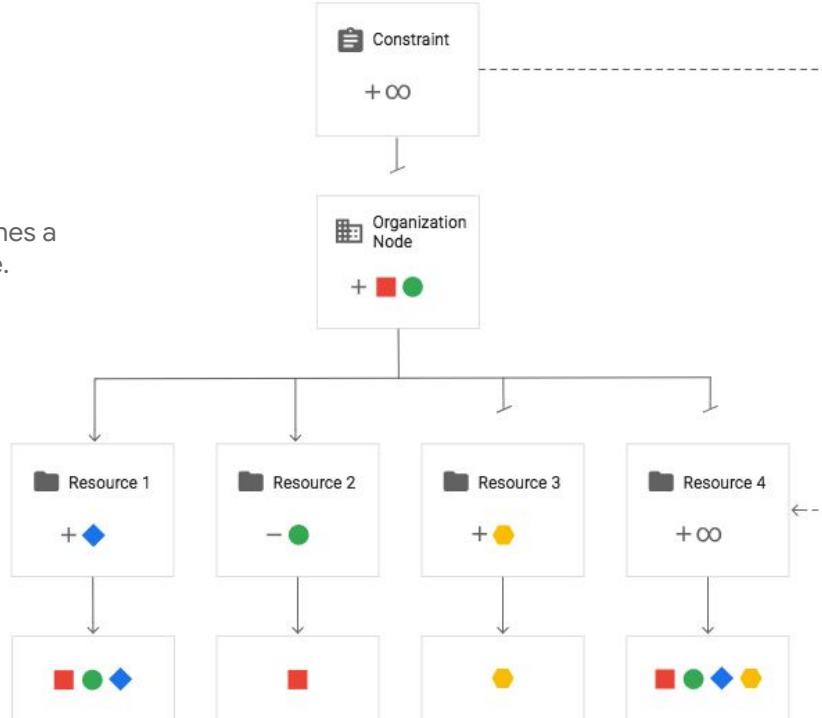


# Organization policy hierarchy evaluation

In this example, the **Organization Node** defines a policy that allows red square and green circle.

**Resource 1** defines a custom policy that sets inheritFromParent to TRUE and allows blue diamond. The effective policy evaluates to allow red square, green circle, and blue diamond.

**Resource 2** defines a custom policy that sets inheritFromParent to TRUE and denies green circle. Deny takes precedence. The effective policy evaluates to allow only red square.



**Resource 3** defines a custom policy that sets inheritFromParent to FALSE and allows yellow hexagon. The effective policy evaluates to only allow yellow hexagon.

**Resource 4** defines a custom policy that sets inheritFromParent to FALSE and includes the restoreDefaultValue. The default constraint behavior is used, so the effective policy evaluates to allow all.

**Note:** The exceptions are always set by org-level Organization Policy roles, and not by project-level roles.

# Organization policies



Constraints every customer should have in place:

Services	Constraints	Description	Useful for
Google Compute Engine	External IPs for VM instances	Defines a set of VM instances allowed to use external IP addresses	Ensuring <b>minimal external surface</b> . VM's should normally get internal IP's only.
Cloud IAM	Domain restricted sharing	Defines the set of members (domains) that can be added to Cloud IAM policies.	Protect against <b>malicious acts and human mistakes</b> by <b>ensuring access</b> only to users in <b>whitelisted domains</b> .
Google Compute Engine	Skip default network creation	Skips the creation of the default network and related resources during project creation.	Enforcing usage of <b>centrally managed and secured VPC networks</b>



# Cloud Security Command Center

Cloud Security Command Center is a security management and data risk platform for Google Cloud Platform that helps prevent, detect, and respond to threats.

The screenshot shows the Google Cloud Platform Security Command Center interface. The left sidebar lists various security components: Threat detectors, Vulnerability detectors, Cloud Phishing Protection, VM Patching, Access Transparency, Identity-aware Proxy, Cryptographic Keys, VPC Service Controls, Binary Authorization, Access Context Management, and Security Scanner. The main dashboard has tabs for DASHBOARD, ASSET, and FINDINGS. The ASSET tab is selected, showing a table of assets categorized by type (All, Organization, Project, Application, Service, Address, Disk, Firewall, instance, Network, Route, Subnetwork, Kind, Bucket) with columns for Deleted, New, and Total counts. Below this is a 'VIEW ASSET INVENTORY' button. The FINDINGS tab is also visible. To the right, there are two expanded sections: 'Findings Summary' (listing findings from various sources like Event Threat Detection, Security Health Analytics, etc.) and 'Event Threat Detection' (listing active threats over 24 hours and 7 days, such as Malware: domain, Cryptomining: IP, etc.).

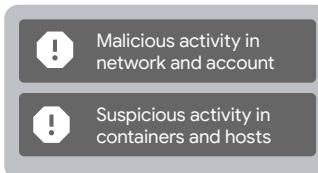
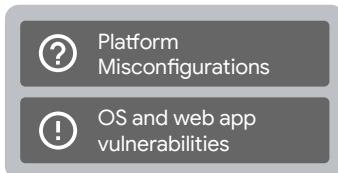
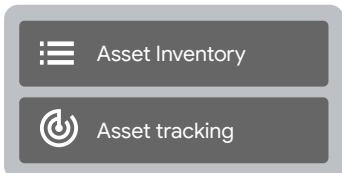
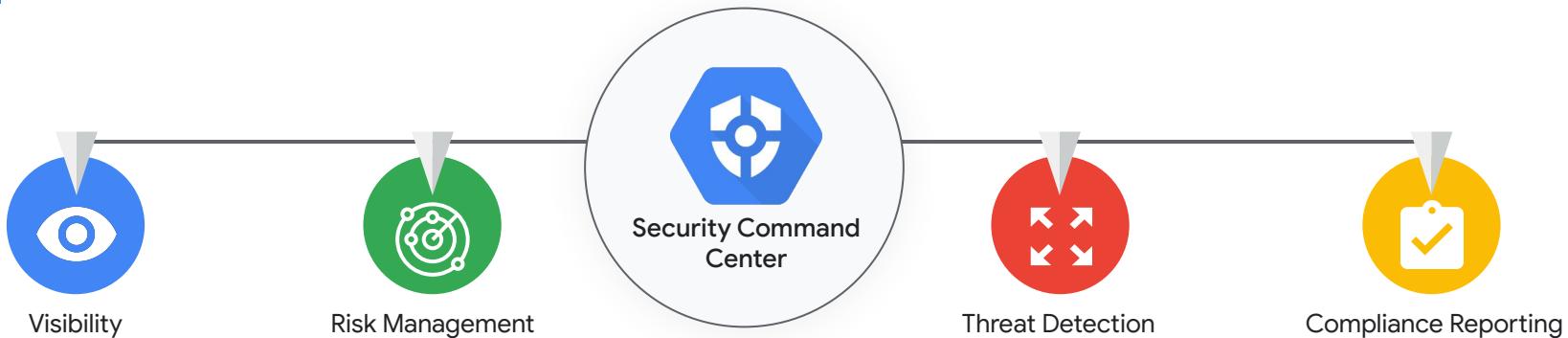
Type	Deleted	New	Total
All	2	23	500
Organization	3	3	50
Project	0	10	40
Application	0	1	30
Service	0	0	30
Address	0	0	20
Disk	0	0	10
Firewall	0	23	5
instance	2	3	4
Network	3	1	3
Route	2	3	2
Subnetwork	1	4	1
Kind	2	3	1
Bucket	3	4	1

Source	Count	Type	Count
Event Threat Detection	374	RedLock	10
Security Health Analytics	112	Cloudflare	10
Enterprise Phishing Protection	15	Qualys	8
CrowdStrike	14	Data Loss Prevention	7
Palo Alto Networks	12	+10 more	

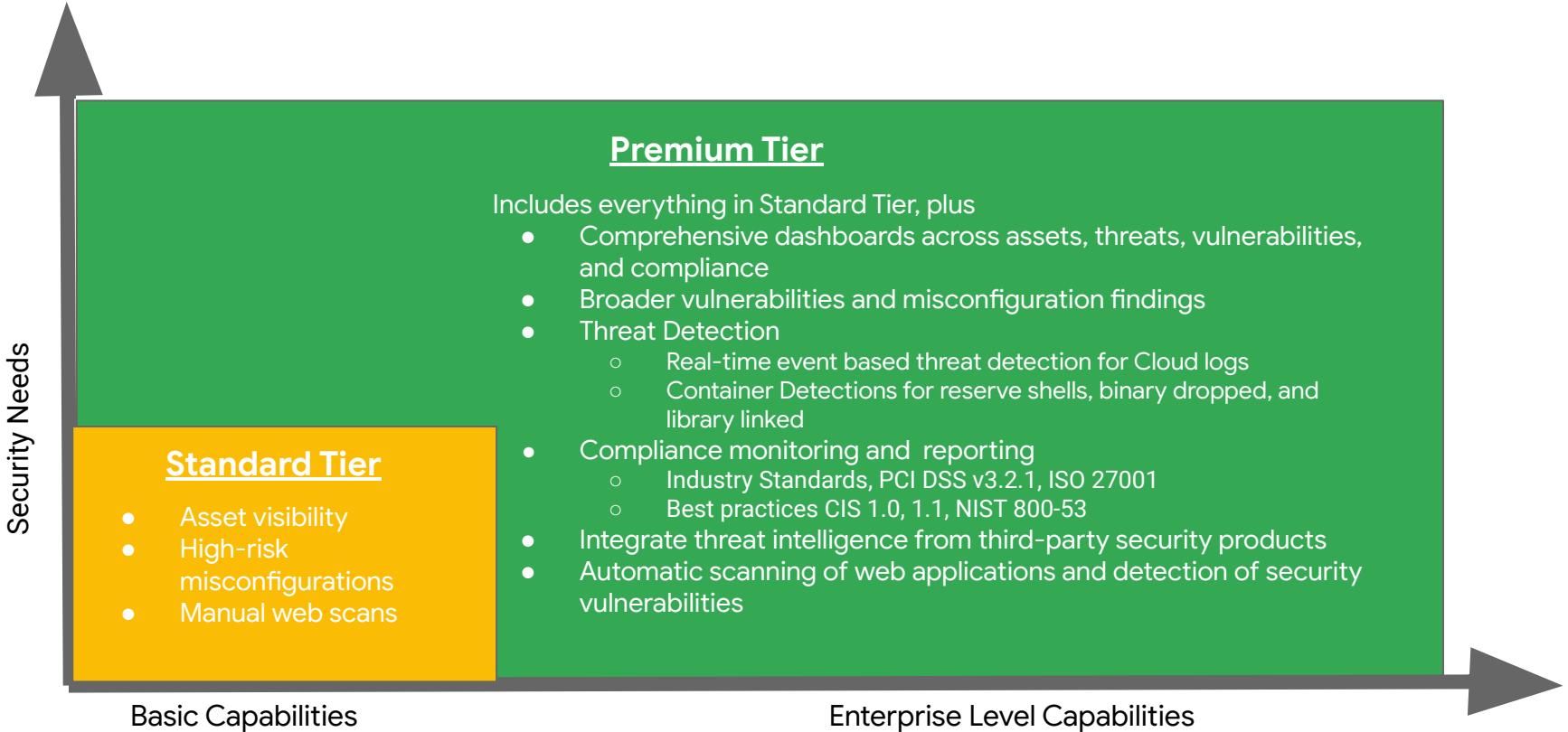
Active threats (last 24 hours)		Active threats (last 7 days)			
Threat	Severity	Count	Type	Severity	Count
Malware: domain	8	Malware: domain	52		
Cryptomining: IP	4	Malware: IP	37		
Malware: hash	4	Malware: hash	32		
Brute force: SSH	2	IAM: anomalous grant	11		
	+4 more		+4 more		

Cloud Native Protection

# Security Command Center



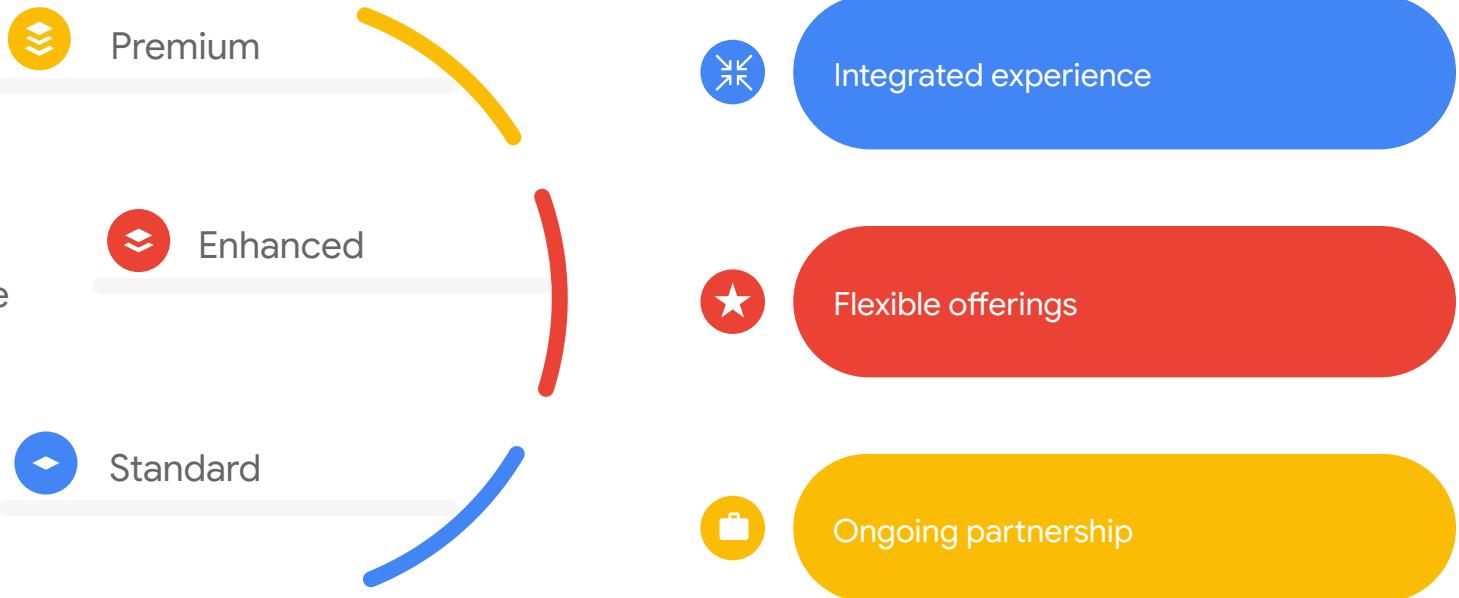
# Security Command Center Standard & Premium tiers



# **Customer Care Portfolio - Support**

# Google Cloud Customer Care Offerings

A support model  
built with  
the **customer** at the  
center



<https://cloud.google.com/support>



# Customer Care Offering - Recap

	Standard	Enhanced	Premium
<b>P1 Response SLO</b>	4 hours *P2 highest priority	1 hour	15 mins
Recommenders	✓	✓	✓
Case Escalation		✓	✓
3rd Party Technology support		✓	✓
Technical Account Management		✓ <small>*Access to purchase TAM Advisory Service</small>	✓
Cloud Support API		✓	✓
Unlimited Contacts	✓	✓	✓
Price	\$29 / month + 3% net spend	\$500 / month + 3% net spend	<a href="#">Estimate Cost</a>

<https://cloud.google.com/support>



# Technical Setup Assets



# Technical Setup Assets (Cloud Identity)

Quick reference for assets used during Google Cloud Technical Setup

Cloud Identity Admin Console

<https://admin.google.com>

Sign up for cloud identity

<https://workspace.google.com/signup/gcpidentity/welcome#0>

Google Cloud console

<https://console.cloud.google.com>

Google Cloud Directory Sync (Download)

<https://tools.google.com/dlpage/dirsync/>

Federating Google Cloud with Azure AD

<https://cloud.google.com/architecture/identity/federating-gcp-with-azure-active-directory>

Azure AD SSO Integration with Google Cloud

<https://docs.microsoft.com/en-us/azure/active-directory/saas-apps/google-apps-tutorial>

Okta SSO Integration with Google Cloud

[https://saml-doc.okta.com/SAML\\_Docs/How-to-Configure-SAML-2.0-for-Google-Cloud-Platform.html](https://saml-doc.okta.com/SAML_Docs/How-to-Configure-SAML-2.0-for-Google-Cloud-Platform.html)

Best Practices for Managing Google Cloud Identities

<https://docs.google.com/document/d/1O4Dv3WFY39mdb-IHWVCA-nEv-Tgmq1Q5dnB6UlutUQww/edit>

# Technical Setup Assets (Users and Roles)

Quick reference for assets used during Google Cloud Technical Setup

Google Cloud IAM Overview

<https://cloud.google.com/iam/docs/overview>

Pre-built administrator roles

<https://support.google.com/a/answer/2405986>

Understanding IAM custom roles

<https://cloud.google.com/iam/docs/understanding-custom-roles>

Assessing existing user accounts

<https://cloud.google.com/architecture/identity/assessing-existing-user-accounts?hl=tr>

Managing conflicting accounts

<https://support.google.com/a/answer/7062710?hl=en>

# Technical Setup Assets (Billing)

Quick reference for assets used during Google Cloud Technical Setup

Overview of Cloud Billing concepts

<https://cloud.google.com/billing/docs/concepts>

Payments Profile

<https://pay.google.com>

Remove a domain or domain alias

<https://support.google.com/cloudidentity/answer/183028?hl=en>

Change your primary domain

<https://support.google.com/a/answer/7009324>

Creating and managing labels

<https://cloud.google.com/resource-manager/docs/creating-managing-labels>

Migrating projects into an organization

<https://cloud.google.com/resource-manager/docs/migrating-projects-billing>

# **Technical Setup Assets (General)**

Quick reference for assets used during Google Cloud Technical Setup

Enterprise onboarding checklist

<https://cloud.google.com/docs/enterprise/onboarding-checklist>

Google Cloud setup checklist (in-console)

<https://console.cloud.google.com/getting-started/enterprise>

Presentation Deck

Available upon request

# Google Cloud Foundations Inputs Template

Documenting critical data inputs for an efficient standard foundations setup

## Key motivations

- Offline, non-interventional collection of inputs for efficient and transparent standard foundations setup
- Simple, and user friendly structure
- Automation friendly

## Salient features

- Covers all steps for a standard foundations setup
- Process flow and nomenclature are consistent with the online console setup wizard
- Reduced, minimal set of data inputs

# Questions / Next Steps

