

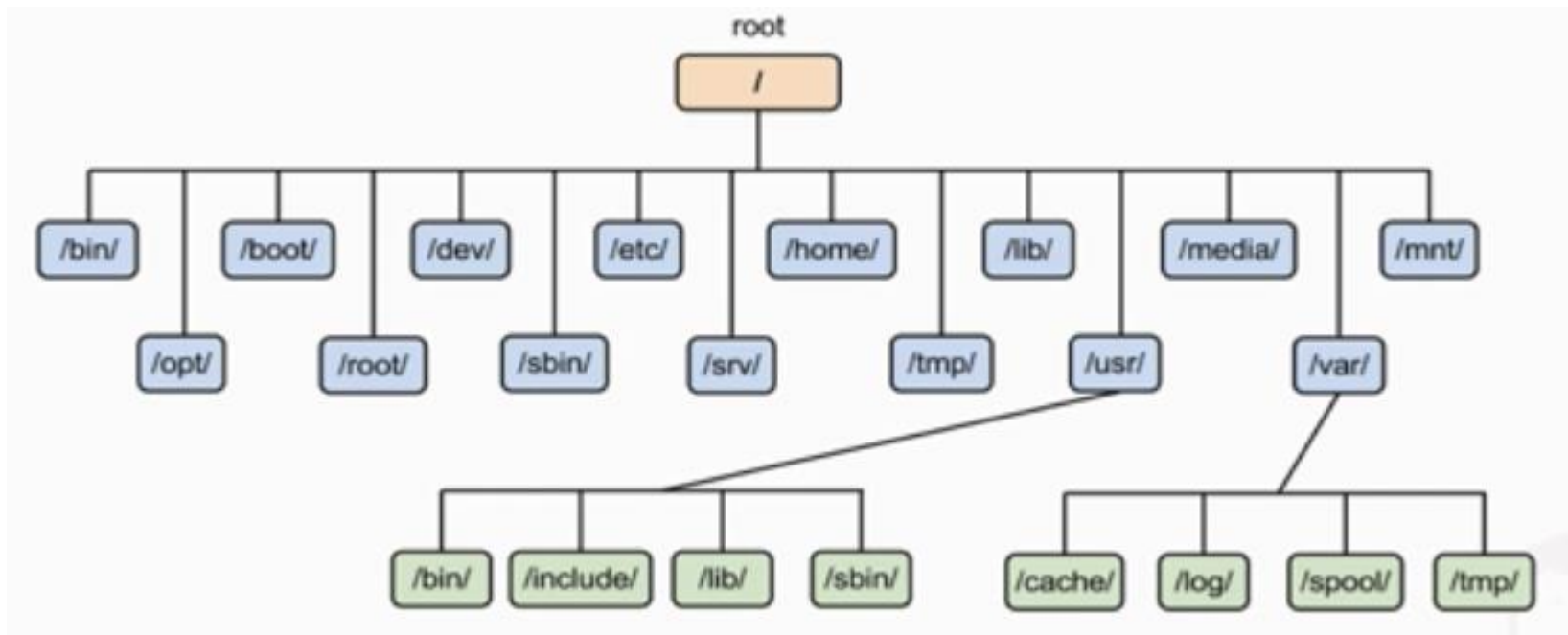


Cloud Computing



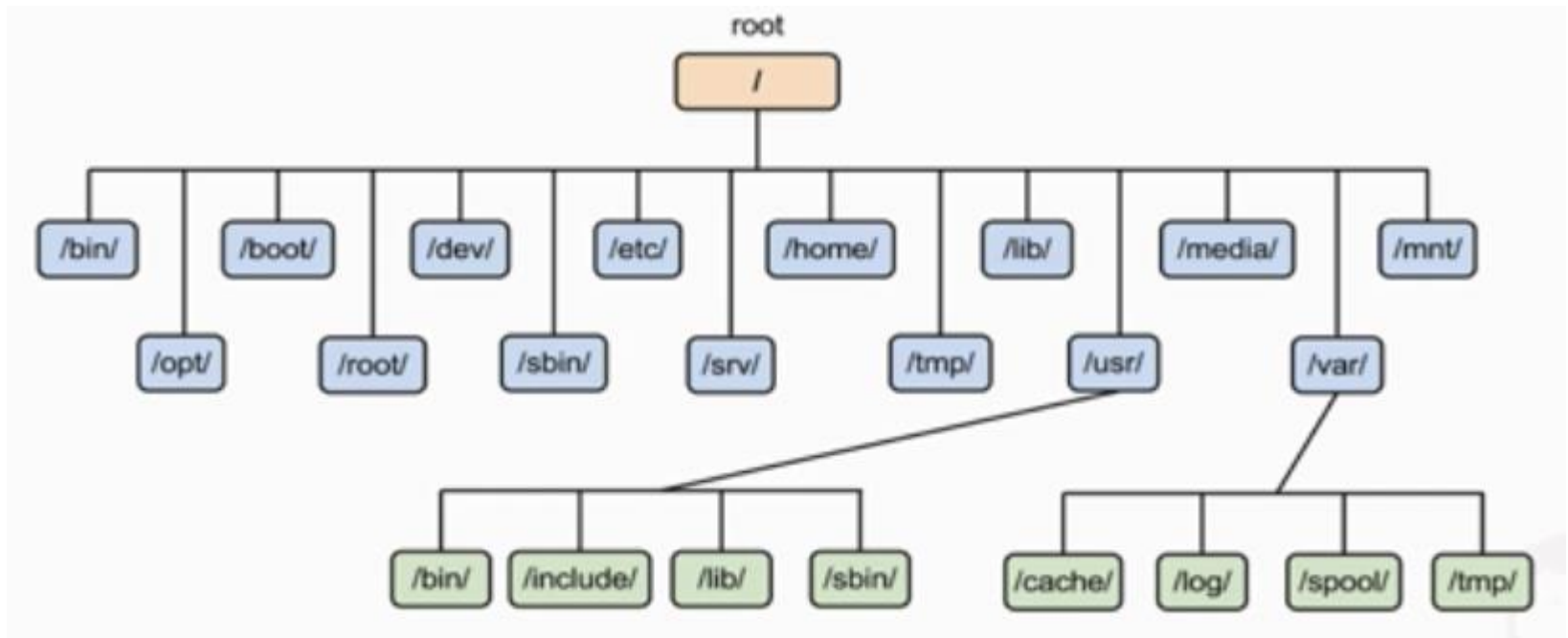
GCP Organization Hierarchy

- Like any operating system or complex tech resource, some form of organization and access control is a necessity.
- GCP's implementation is called Cloud Resource Hierarchy.



Purpose of the Cloud Resource Hierarchy

- Provide a hierarchy of ownership.
 - Identity and Access Management (IAM)
- Provide attach points and inheritance for access control and organization polices.



Hierarchy Overview

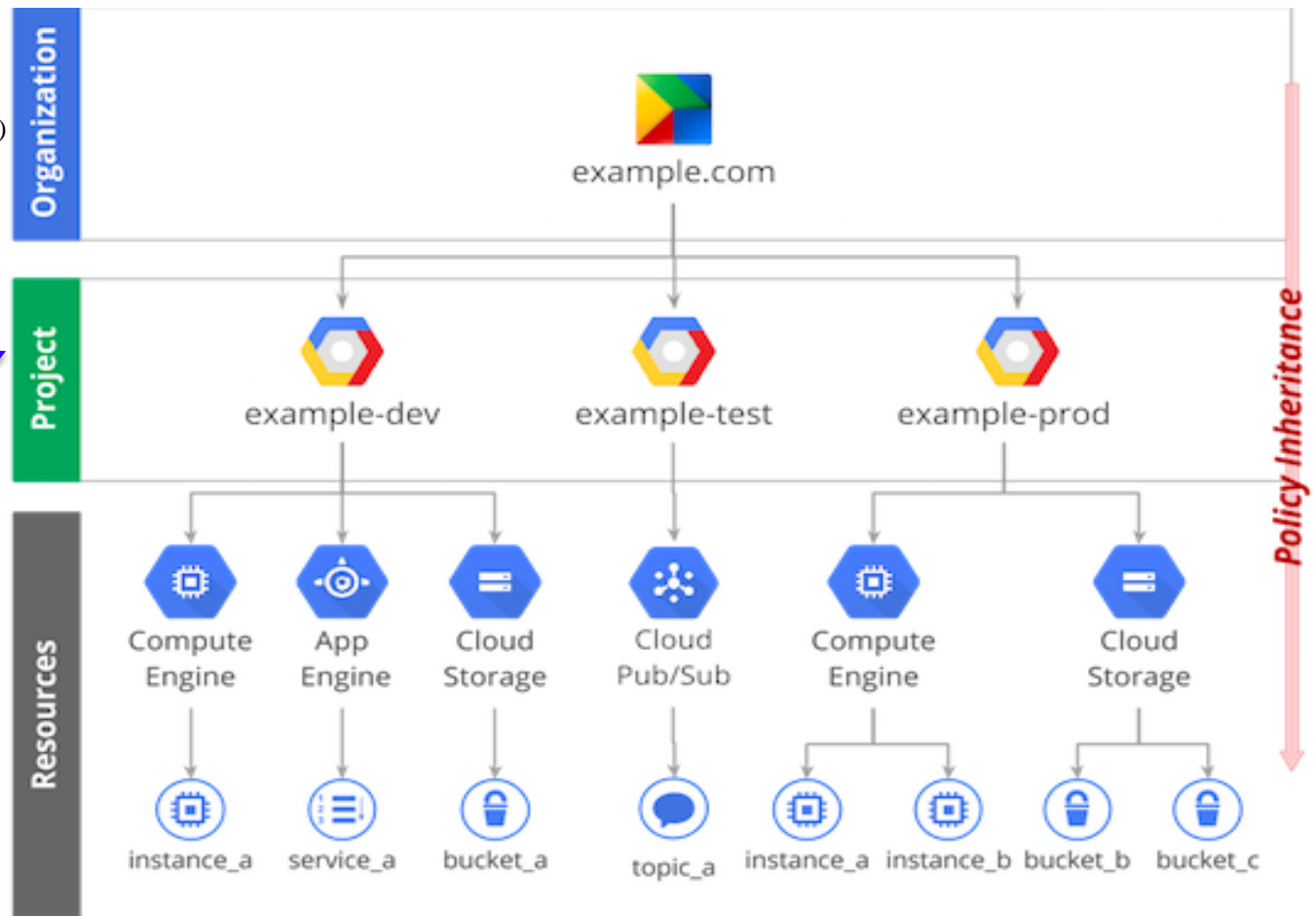
- Organization

(not applicable to individual accounts)

- Projects

Our focus

- Resources





Projects

- Core organizational components of GCP
- Control access to resources.
 - Who has access to what?
- Creating, enabling, and using all Cloud Platform services:
 - Per project basis
 - Permissions
 - Billing
 - API's



Projects Identifiers

- Project Name – aka “Friendly Name”
 - Not necessary need to be unique to Google platform
- Project ID – aka “Application ID”
 - It get created automatically
 - It must be unique in Google platform
 - It can't be change once it get created
- Project Number
 - Used in various places for identifying resources that belong to specific projects. For example, service account access and names.

Go to your Dashboard

The screenshot shows the Google Cloud Platform dashboard for a project named 'My First Project'. The interface is organized into a grid of widgets. The top navigation bar is blue and contains the Google Cloud Platform logo, the project name, a search bar, and various utility icons. Below the navigation bar, there are tabs for 'DASHBOARD' and 'ACTIVITY', with 'DASHBOARD' being the active tab. A 'CUSTOMIZE' link is visible in the top right corner. The dashboard widgets include: 'Project info' showing the project ID and a link to settings; 'Resources' showing a message about permissions for Compute Engine; 'Trace' showing no data from the past 7 days and a link to get started; 'Getting Started' with a link to enable APIs; 'Compute Engine' showing CPU usage and a link to the dashboard; 'APIs' showing no data for requests per second; 'Google Cloud Platform status' showing all services normal and a link to the status dashboard; 'Billing' showing \$0.00 in charges and a link to view detailed charges; 'Error Reporting' showing no errors and a link to learn how to set up; and 'News' featuring an article about API versioning. The bottom of the dashboard has a dark bar with a link to enable APIs.

Google Cloud Platform My First Project

DASHBOARD ACTIVITY

Project info
My First Project
Project ID: my-first-project-172015
#428062308517
→ Go to project settings

Resources
Compute Engine
You do not have permission to see this information

Trace
No trace data from the past 7 days
→ Get started with Stackdriver Trace

Getting Started
RPI Enable APIs and get credentials like keys

Compute Engine
CPU (%)
There is no data for this chart
→ Go to the Compute Engine dashboard

APIs
Requests (requests/sec)
There is no data for this chart

Google Cloud Platform status
All services normal
→ Go to Cloud status dashboard

Billing
\$0.00
Approximate charges so far this month
→ View detailed charges

Error Reporting
No sign of any errors. Have you set up Error Reporting?
→ Learn how to set up Error Reporting

News
Versioning APIs at Google
20 hours ago

CUSTOMIZE

Create a Project



Unlock more of Google Cloud by upgrading now (\$272.42 credit and 192 days left in your free trial).

DISMISS

UPGRADE



Google Cloud Platform

CSULB-1



DASHBOARD

ACTIVITY

CUSTOMIZE

Project info

Project name

CSULB-1

Project ID

csulb-1

Project number

619032074624

→ Go to project settings

Resources

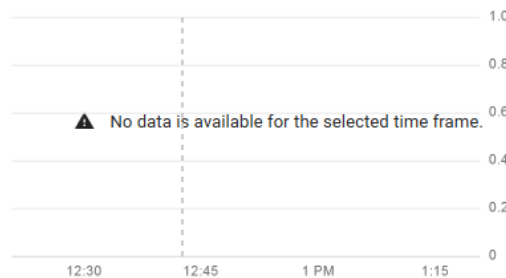
This project has no resources

Trace

No trace data from the past 7 days

API APIs

Requests (requests/sec)



→ Go to APIs overview

Google Cloud Platform status

All services normal

→ Go to Cloud status dashboard

Billing

Estimated charges

USD \$0.00

For the billing period Nov 1 – 25, 2018

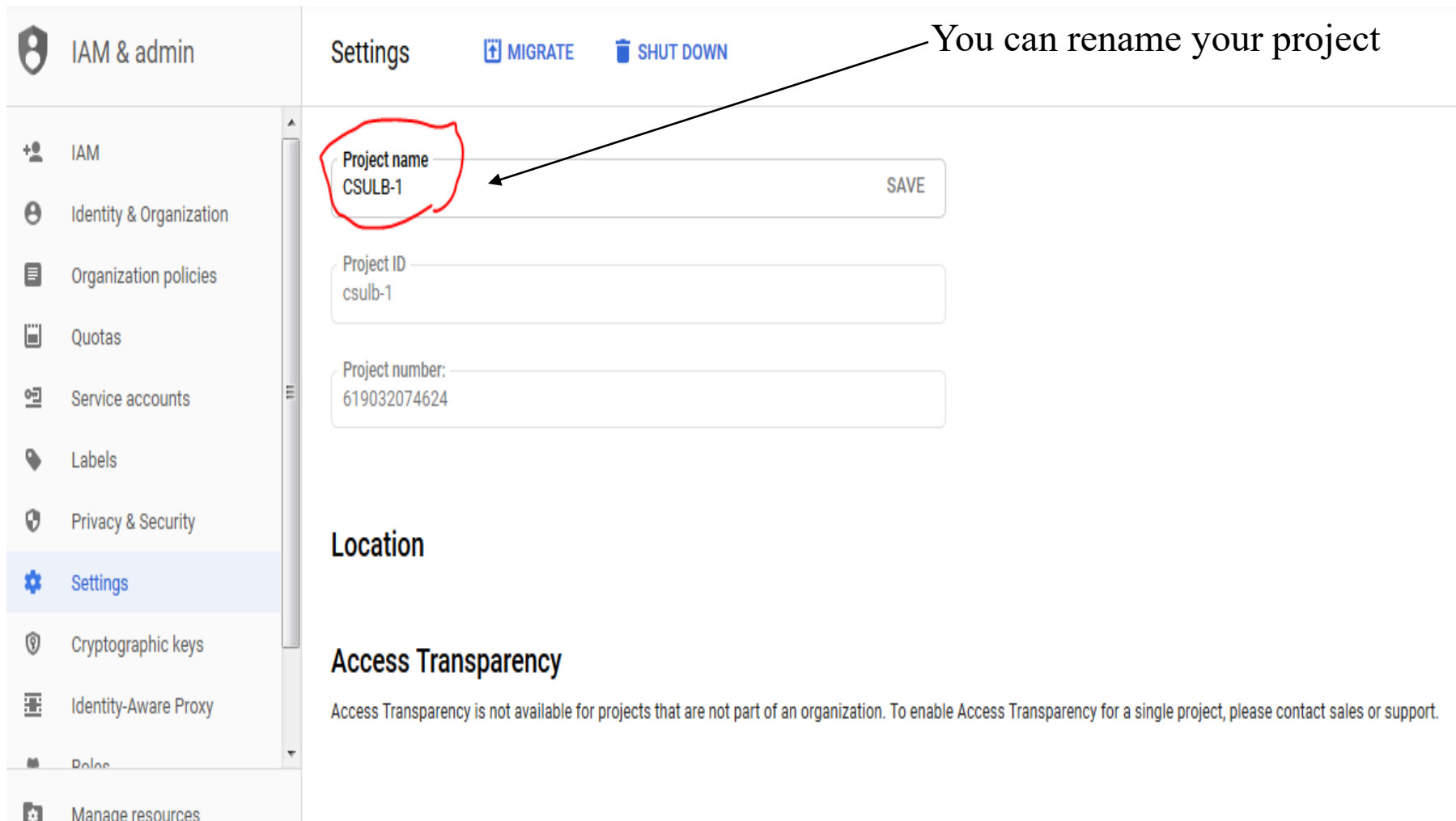
→ View detailed charges

Error Reporting

No sign of any errors. Have you set up Error Reporting?

→ Learn how to set up Error Reporting

Rename a Project



IAM & admin

- IAM
- Identity & Organization
- Organization policies
- Quotas
- Service accounts
- Labels
- Privacy & Security
- Settings**
- Cryptographic keys
- Identity-Aware Proxy
- Roles
- Manage resources

Settings [MIGRATE](#) [SHUT DOWN](#)

Project name
CSULB-1 [SAVE](#)

Project ID
csulb-1

Project number:
619032074624

Location

Access Transparency

Access Transparency is not available for projects that are not part of an organization. To enable Access Transparency for a single project, please contact sales or support.

You can rename your project

Delete a Project

Google Cloud Platform

My Project 21284

Search products

Admin

Privacy & Security

Settings

Labels

Organization Policies

Essential Contacts

Quotas

Settings

MIGRATE

SHUT DOWN

Project name

My Project 21284

SAVE

Project ID

avian-sandbox-275822

Project number:

924210954274

Location

Access Transparency

To enable [Access Transparency](#), please confirm your [eligibility](#) and contact support.

Delete a Project/Email Confirmation

Mail - Malik Luti - Outlook - Google Chrome

https://outlook.office.com/mail/deeplink

Delete Junk Block ...

Your Google Developers Console project is scheduled for deletion

Attachments, pictures, and links in this message have been blocked because the sender isn't in your Safe Senders list. I trust content from platformnotifications-noreply@google.com. | Show blocked content



Platform Notifications <PlatformNotifications-noreply@google.com>

Sun 11/25/2018, 10:32 PM
Malik Luti



Project Shutdown Announcement

Your Google Cloud Platform project cecs-227 was shut down on 2018-11-26T06:32:43+00:00.

If you take no action, after 2018-12-26T06:32:43+00:00, you will be unable to recover this project. If this was unintentional, visit this URL before 2018-12-26T06:32:43+00:00 to cancel the project shutdown:

<https://console.developers.google.com/project?pendingDeletion=true&organizationId=0>

If you have any questions, please visit the Developers Console Help at this URL, or contact support:

Restore Link





Homework

- Access Project Manager
- Create a Project
 - Chose a friendly name
 - Watch how Project ID is automatically created from friendly name
- Look up Project info after creation
- Delete your Project
- Create new Project – “BookStore Application”
 - Don’t delete this project