

Google Cloud Resource Manager

Google Cloud Resource Manager enables you to hierarchically manage resources by project, folder, and organization.

Organization

- Root node for Google Cloud resources.
- Includes two roles:
 - Organization Admin: gives control over all cloud resources.
 - Project Creator: gives Project creation rights.

Folders

Projects

- Track resources and quota usage.
 - Enable billing.
 - Manage permissions and credentials.
 - Enable services and APIs.
- Projects use three identifying attributes:
 - Project Name
 - Project Number
 - Project ID
- Managed through the Cloud Console or the Cloud Resource Manager API.

Project Quotas

There to protect you from a shocking bill.

- Applies to all resources.
- Three categories:
 - How many resources can you create per project.
 - How quickly you can make API requests in a project (rate limit).
 - Per region quotas.
- Examples: 5 networks per project, 24 CPUs per region per project.
- Can be increased.

Labels

Utility for organizing resources.

- Attached to resources such as VMs, disks, snapshots, etc.
- Managed through the Cloud Console or API (not in gcloud).
- Enables searches through all resources with filtering.
- Labels can be used in scripts.

Note: Use 'Show Info' to bulk edit within the Cloud Console

Note: Labels are not 'Tags'. Tags are used for networking (routes, firewall rules, etc).

Billing

- Can be exported to BigQuery for analysis.