

How-to · Use Opportunities

Introduction

Costimize will analyze all of the resources it has access to and, according to their usage and parameters, will recommend steps that will result in an optimized cloud.

Using the Google Cloud Console could get tricky once you have a large number of resources to manage. Once that happens, things can get under the radar and cause the cloud cost to go up before the problem is noticed.

Using data through the Google Cloud APIs, Costimize will do the investigation for you and provide the user with a list of actionable steps which, if made, will result in both a cost reduction and a more easily manageable cloud.

Costimize users can track hundreds of projects and resources simultaneously.

Opportunities

Opportunities screen gives the user the ability to see all of Costimize's suggestions aggregated in one place. There are 7 main groups of recommendations:

- Waste management suggestions
 - Orphan disks
 - Orphan IPs
 - Aged Snapshots
 - VMs with GPUs
 - Unused VMs
- Compute optimization suggestions
 - Migrate SSD->HDD
 - Add schedule
 - Move to a cheaper region
- Commitments suggestions
 - Compute Commitments
 - Underutilized Compute Commitments
 - BQ commitments
- Kubernetes suggestions
 - Imbalanced nodes
 - Horizontal autoscaler
 - Pod rightsizing

- Network suggestions
 - Network Traffic between Regions
 - Network Traffic outside of GCP
 - Not Enabled Flow Logs
- Storage suggestions
 - Move Files to a Colder Storage
 - Move Files to a Hotter Storage
 - Buckets without Policy
- Managed services suggestion
 - Underutilized spanner
 - Optimize BigQuery statements
 - Cluster BQ table
 - Partition BQ table

OPPORTUNITIES & RECOMMENDATIONS

FILTERS: PROJECTS: All current and future projects, RECOMMENDATION TYPE: 33/33, RECOMMENDATION STATE: Active

Cloud stats overview

Recommendation	Tags	Affected resources	Expected cost reduction /pa
Add a schedule to VM instances to turn them off while not in use.	Compute engine	4	\$393.44
Project 3	Instance name: first-test-instance, Environment: Not set		\$159.50
Project 2	Instance-1, development		\$159.50
Project 4	Instance-124, Not set		\$48.92
project 4	Instance-123, development		\$25.52
Add missing mandatory labels to improve cloud manageability.	Labeling	297	-
Cache hit ratio is under the optimal value of 80%.	Compute engine	1	-
Cluster tables to increase SQL query speed and reduce cost.	BigQuery	2	-
Cluster will benefit from Autoscaling.	Kubernetes	1	-
Delete external IPs that are not used.	Network	1	\$96.36

There are two main types of recommendations in Costimize - ones that can be done in Costimize (we can call them **active operations**) and ones that are just informative, e.g. no action in Costimize can be done.

Upon hovering or clicking the suggestion, the arrow_forward button will appear when an active operation can be performed. Clicking on it will take the user to the corresponding tool in Costimize. Alternatively, users can go to the screen from the Optimizers panel in the menu.

Although relevant, one could decide that it is not the right time to take action on some suggestions. In this case, the 'snooze' button dismisses the recommendation.

Move instances to a cheaper region if latency is within reasonable values.			Compute engine	18	\$31,502.90
Project	Resource Name	Current Region	Suggested Region(s)	Expected cost reduction /pa	
Veribet	water-buffaloea	europa-west3	us-central1, us-east1, us-west1	\$4,097.49	
Opela	tentacruclcius	europa-west3	us-central1, us-east1, us-west1	\$4,097.49	
Flowdesk	deerut	europa-west3	us-central1, us-east1, us-west1	\$4,097.49	
Voyatouch	persiana	europa-west3	us-central1, us-east1, us-west1	\$3,140.26	
Sonsing	venomotherum	europa-west3	us-central1, us-east1, us-west1	\$1,570.13	

The dismissed suggestions can still be viewed, using the filter. Use the alarm_on button to revert the previous choice.

OPPORTUNITIES & RECOMMENDATIONS

FILTERS

SAVED FILTERS 1

Projects

All current and future projects

Recommendation type

33/33

Recommendation state

Dismissed

save

|

reset

Apply

Cloud stats overview

Recommendation	Tags	Affected resources	Expected cost reduction /pa
Add a schedule to VM instances to turn them off while not in use.	Compute engine	2	\$1,101.70
Project	Instance name	Environment	Expected cost reduction /pa
E-Shop	test-e2	Not set	\$782.69
costimize-test	instance-1	Not set	\$319.01

Each filtering can be downloaded as a spreadsheet from the button on the right side at the top of the suggestions table.