## **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.

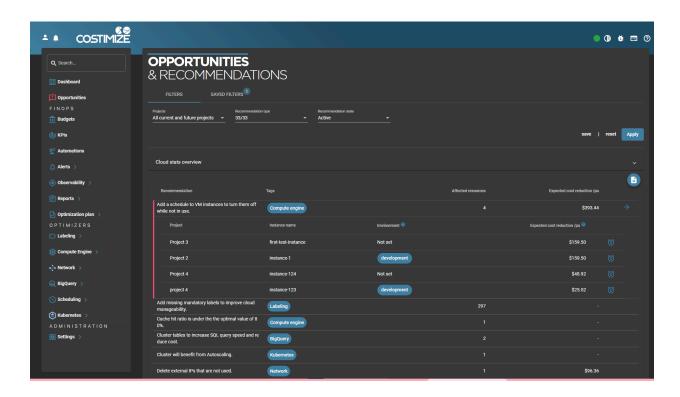
## **Opportunities**

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



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.

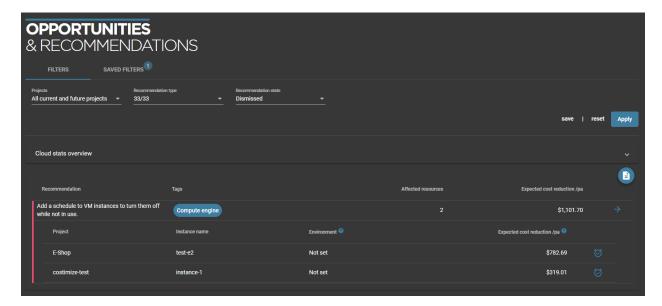
Upon hovering or clicking the suggestion, the arrow\_forward button will appear when an active operation can be performed. Clicking on it will take the user to the corresponding tool in Costimize. Alternatively, users can go to the screen from the Optimizers panel in the menu.

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.





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



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



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