# IBM Turbonomic for Google Cloud Platform

## Automate cloud optimization to prevent performance risk and cost overruns

**Highlights**

Get a full view of your hybrid cloud to reduce complexity

Optimize resources for performance and cost efficiency

Accelerate workloads onto GCP with migration planning

Optimize Kubernetes performance and minimize cost

As businesses embark on their cloud journey, the goal is often twofold: unlock scalability and keep costs within budget. For many, however, the promise of agility and elasticity is hindered by a lack of insight into what is needed from an application resourcing perspective. This challenge leads to poor performance and bills that exceed budget.

IBM® Turbonomic® continuously generates actions that optimize Google Cloud Platform (GCP) workloads, storage and disks based on real-time demand. Its recommended actions help ensure continued performance while minimizing cost. Additionally, the platform manages your committed use discounts (CUDs) and directs actions that maximize CUD utilization and coverage through the lens of application performance.

## Benefits

**Get a full view of your hybrid cloud to reduce complexity**
Turbonomic offers a comprehensive, end-to-end view of your applications and infrastructure stack in the public cloud and the data center. You gain real-time insights into the health and performance of your applications, empowering you to identify underutilized resources, rightsize instances, and deploy CUDs to facilitate performance while minimizing costs.

**Optimize resources for performance and cost efficiency**
The Turbonomic platform integrates with GCP to gather data for instant analysis. Turbonomic then uses AI-based insights to generate actions that optimize GCP VMs, databases and disks based on real-time demand. Its recommended actions help ensure performance while reducing costs.

**Accelerate workloads onto GCP with migration planning**
Turbonomic helps model and compare the performance and cost implications of both lift-and-shift and optimized migration plans. It maps existing workloads to fit GCP VMs and disk types, which are then optimized. This method accelerates workloads onto GCP through scalable, repeatable processes for future workload migrations and cloud consolidations.

**Optimize Kubernetes performance and minimize cost**
Turbonomic supports all Google Kubernetes Engine (GKE) instances and can "stitch" your GKE clusters to underlying GCP resources. It can continuously optimize Kubernetes performance and minimize cost by automated container rightsizing, pod moves, cluster scaling and planning.

**Conclusion**
Turbonomic, when integrated with the Google Cloud Platform, lets you efficiently use resources without overprovisioning. You benefit from lower cloud costs and higher ROI with optimal app performance.

**Why IBM**
IT automation solutions from IBM help ensure that the applications and infrastructure businesses you depend on are always functional and optimally performing to reduce costs, drive outcomes and protect brand value.

To learn more, contact your IBM representative or IBM Business Partner, or visit ibm.com/turbonomic.

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