GRANULATE

Granulate for GCP

Cut Compute Costs by 60% and Improve Performance

Granulate's real-time, continuous optimization solution cuts GCP compute costs by 60% while improving latency and quality of service. First, Granulate agents learn the application's particular resource usage pattern and data flow. After which, the agents optimize the OS and kernel in real-time, using various tools including scheduling and prioritization algorithms.

Reduce Costs By	Reduce Response Time By	Increase Throughput	Code Changes
60%	40%	5X	0

GCP ready from day one

Granulate is GCP-ready out-of-the-box, with broad support for GCP compute resources and services.

- *Extensive Support for GCP Compute Resources* - Granulate's agent improves application performance regardless of compute type, Linux distribution, or development language used. Agents run on Google Compute Engine VMs, Preemptible VMs, Shielded VMs, Sole-Tenant Nodes, and GCP's Bare Metal Solution. The agents optimize all of GCP's supported Linux distribution.

- *Cloud-Native, Elastic Environment Ready* - Granulate supports elastic environments out of the box, with full support for orchestrators, orchestration services, and Google's Cloud Build service.

  GCP Services Supported Upon Installation - Performance and cost improvements are automatically available for tracking and comparison in GCP's Service Monitoring service, Cloud Monitoring ser-
- vice, and Cloud Console. Granulate's GCP-ready agents work seamlessly with other Google Cloud services like Google Cloud Shell and Game Servers.
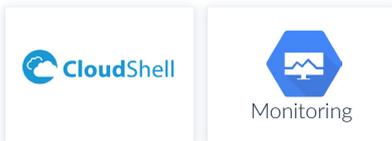
Orchestration

kubernetes | RED HAT OPENSHIFT | Kubernetes Engine | Anthos

Operating Systems

freeBSD | Red Hat Enterprise Linux | debian | ubuntu | CentOS | Container Optimized Operating System

Compute

Compute Engine | Shielded VM

GCP Services

CloudShell | Monitoring

Simple Installation - No Maintenance Required

Granulate requires just one line of text for installation and no ongoing maintenance - improving workload performance on GCP has never been easier.

- *Easy Installation -* By entering just one line of text in the command line, organizations can manually install Granulate's agents in minutes. Standard provisioning tools such as Google Cloud Deployment Manager, Chef, Ansible, and Puppet are fully supported as well.

- *No Maintenance -* Each Granulate agent is autonomous and does not require ongoing maintenance, they continuously tune and update themselves.

- *No Code Changes or R&D Required -* Agents monitor and then automatically and continuously update the OS and kernel to reflect the application's needs - without human intervention, code changes, or any R&D efforts.

| No Maintenance | No R&D effort | No code changes | 1 line of code installation |

Sample Granulate Use Cases

Granulate supports a wide variety of IT infrastructures and use cases, including:

1   *Improve Existing GCP Deployments -*

Granulate improves the efficiency of existing workloads by 30 - 60% in addition to gains already made with Cloud Profiler (formerly Stackdriver), GCP Recommender, or other optimization solutions and approaches - without sacrificing performance.


2   *Hybrid and Multi-Cloud Support -*

Granulate automatically optimizes workloads across the 3 major cloud providers (AWS, Microsoft Azure, and GCP). Further, the solution natively supports private cloud environments, including bare metal infrastructures, giving it the ability to drive efficiency in any infrastructure.

Organizations migrating to the cloud often find that while they improve agility, a reduction in costs isn't always a guarantee. Customers using Granulate fully optimize their use of compute, ensuring both agility and cost reduction.
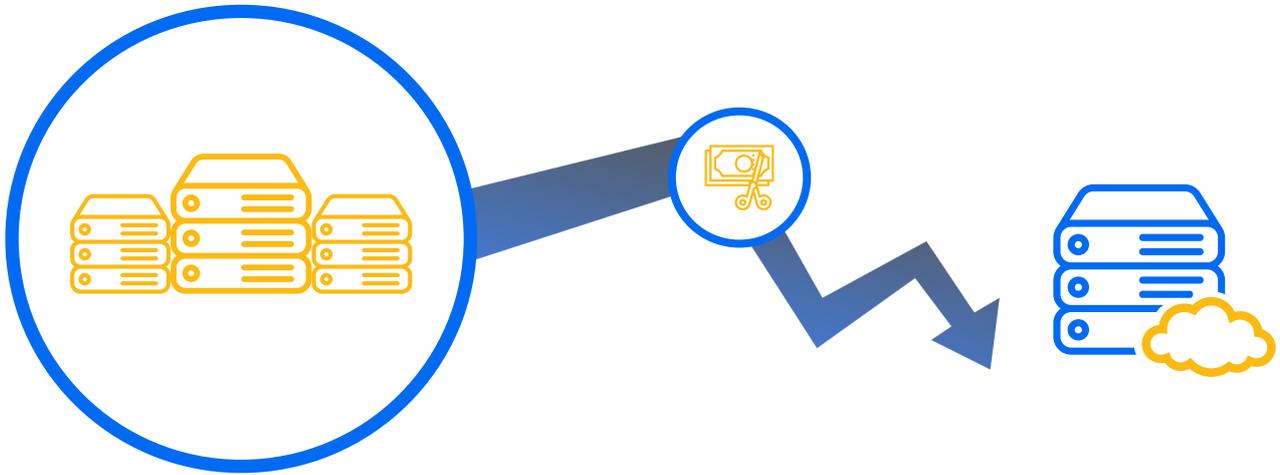
Why Granulate? Instant Benefits

Cut GCP Compute Costs by 60% -
By customizing the OS to an application's specific needs, Granulate ensures the same workload can be supported with much less compute.

Improve Workload and Application Performance -
Granulate's agents dramatically increase throughput (by as much as 10x) while slashing response time by 15% or greater.

For more information contact info@granulate.io