

Google Cloud Compute Platform

G-Cloud 15 – Service Definition

Google Cloud Platform Compute, provides cost effective, scalable virtual machines running on Google infrastructure. Choose between predefined and custom virtual machines.

Everything you need for your computing infrastructure.

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Compute

App Engine: App Engine enables you to build and host applications on the same systems that power Google applications. App Engine offers fast development and deployment; simple administration, with no need to worry about hardware, patches or backups; and effortless scalability.

Compute Engine: Compute Engine offers scalable and flexible virtual machine computing capabilities in the cloud, with options to utilise certain CPUs, GPUs, or Cloud TPUs. You can use Compute Engine to solve large-scale processing and analytic problems on Google's computing, storage, and networking infrastructure. Google Cloud VMware Engine (GCVE): GCVE is a managed VMware-as-a-Service that is specifically designed for running VMware workloads on Google Cloud Platform. GCVE enables customers to run VMware virtual machines natively in a dedicated, private, software-defined data centre.

Compute Engine

Scalable, high-performance and general purpose VMs.

Compute Engine delivers virtual machines running in Google's innovative data centres and worldwide fibre network. Enable scaling from single instances to global, load-balanced cloud computing with tooling and workflow support. Plus, leverage fast boot times, persistent and local disk options, and consistent performance across all your workloads.

Common uses

- LOB apps
- Web hosting
- Enterprise apps
- Databases
- Most workloads

Migrate for Compute Engine

Fast, flexible, and safe migration to Google Cloud with Migrate for Compute Engine (formerly Velostrata). Whether migrating applications from on-premises, multiple data centres, or the cloud, Migrate for Compute Engine makes it easy to move workloads into Google Cloud.

Cloud GPUs

GPUs for machine learning, scientific computing, and 3D visualisation.

Google Cloud offers virtual machines with GPUs capable of up to 960 teraflops of performance per instance. Deep learning, physical simulation, and molecular modelling are accelerated with NVIDIA Tesla K80, P4, T4, P100, and V100 GPUs.

Regardless of the size of your workload, Google Cloud has a GPU to fit your job.

- Machine learning
- Medical analysis
- Seismic exploration
- Video transcoding
- Graphic visualisation
- Scientific simulations

Preemptible VMs

Affordable, short-lived compute instances suitable for batch jobs and fault-tolerant workloads.

Affordable, short-lived compute instances suitable for batch jobs and fault-tolerant workloads. Preemptible VMs offer the same machine types and options as regular compute instances and last for up to 24 hours.

- Short-lived or fault-tolerant workloads
- Financial modelling
- Rendering
- Media transcoding
- Manufacturing design
- Hadoop and big data
- Continuous integration
- Web crawling

Shielded VMs

Hardened virtual machines.

Shielded VMs help protect enterprise workloads from threats like remote attacks, privilege escalation, and malicious insiders. Shielded VMs leverage advanced platform security capabilities such as secure and measured boot, a virtual trusted platform module (vTPM), UEFI firmware, and integrity monitoring.

- Defend against rootkits and bootkits
- Protect enterprise workloads
- Protect against remote attacks, privilege escalation, and malicious insiders
- Enables UEFI Secure Boot capability

Sole Tenant Nodes

Dedicated hardware for your compliance, licensing, and management needs.

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Sole-tenant nodes offer the same machine types and options as regular compute instances, including custom machine shapes and transparent maintenance, but on servers dedicated exclusively to your use.

- BYOL
- Dedicated compute for workloads
- Help meet security and compliance needs
- Meet per-socket or per-core licensing requirements
- View physical core usage information

Compute Products

[App Engine](#): App Engine enables you to build and host applications on the same systems that power Google applications. App Engine offers fast development and deployment; simple administration, with no need to worry about hardware, patches or backups, along with effortless scalability.

[Google Compute Engine \(GCE\)](#): GCE offers scalable and flexible Virtual Machine (VM) computing

capabilities in the cloud, with options to utilise certain Central Processing Units (CPUs), Graphics Processing Units (GPUs) or Cloud Tensor Processing Units (TPUs). You can use GCE to solve large-scale processing and analytic problems on Google's computing, storage and networking infrastructure.

[Google Cloud VMware Engine \(GCVE\)](#): GCVE is a managed VMware-as-a-Service that is specifically designed for running VMware workloads on Google Cloud. GCVE enables customers to run VMware VMs natively in a dedicated, private, software-defined data center.

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