

Concepts

Virtual machine (VM) instances

Virtual machine instances

An overview of Compute Engine instances.

(/compute/docs/instances)

Instance life cycle

Learn about the life cycle and the different statuses of your Compute Engine instances.

(/compute/docs/instances/instance-life-cycle)

Machine types

Learn about the different machine types you can use for your Compute Engine instances.

(/compute/docs/machine-types)

CPU platforms

Learn about the different CPU platforms that you can use for your Compute Engine instances.

(/compute/docs/cpu-platforms)

GPUs on Compute Engine

Learn about the different GPU platforms that you can use for your Compute Engine instances.

(/compute/docs/gpus)

Images

An overview of images that you can use with Compute Engine instances.

(/compute/docs/images)

Guest environment

The guest environment package allows custom images to work on Compute Engine.

(/compute/docs/images/guest-environment)

Live migration

An overview of live migration, a process that keeps your virtual machine instances running during host system events such as software or hardware updates.

(/compute/docs/instances/live-migration)

Preemptible VM instances

An overview of preemptible virtual machine instances.

(/compute/docs/instances/preemptible)

Shielded VM

An overview of Shielded VM, which offers verifiable integrity of your Compute Engine VM instances.

(/security/shielded-cloud/shielded-vm)

Instance templates

Instance templates

An overview of VM instance templates, which can be used to create VM instances and managed instance groups.

(/compute/docs/instance-templates)

Instance groups

Instance groups

An overview of VM instance groups, which can be used to manage a group of VM instances as a single entity.

(/compute/docs/instance-groups)

Machine images

Machine images

An overview of machine images, which can be used to clone or duplicate a source instance.

(/compute/docs/machine-images)

Windows on Compute Engine

Windows on Compute Engine

Get an overview of running Windows VM instances on Compute Engine.

(/compute/docs/instances/windows)

Bringing your licenses to Compute Engine

Get an overview of bringing your licenses to Compute Engine.

(/compute/docs/instances/windows/bring-your-own-license)

Sole-tenant nodes

Sole-tenant nodes

Learn about using sole-tenant nodes for hosting dedicated instances for specific projects only.

(/compute/docs/nodes)

Storage

Storage options

This page compares the different storage solutions that are available to your Compute Engine instances.

(/compute/docs/disks)

Block storage performance

This page provides an overview of persistent disk performance and explains how factors such as disk size, machine type, and vCPU count may affect performance limits.

(/compute/docs/disks/performance)

High availability options using regional persistent disk

This page provides an overview of how to use regional persistent disk for your high availability services.

(/compute/docs/disks/high-availability-regional-persistent-disk)

Operating systems management

OS inventory management

An overview of OS inventory management. OS inventory management is used to collect and view operating system details.

(/compute/docs/instances/os-inventory-management)

OS patch management

Get an overview of OS patch management. OS patch management is used to apply operating system patches across a set of VM instances.

(/compute/docs/os-patch-management)

OS configuration management

Get an overview of OS configuration management. OS configuration management service is used to deploy, query, and maintain consistent configurations across a set of VM instances .

(/compute/docs/os-config-management)

VPC networks

Virtual Private Cloud network overview

Learn about VPC networks, firewalls, and how your instance interacts with networks and firewalls.

(/vpc/docs/overview)

IP addresses

Learn about external and internal IP addresses.

(/compute/docs/ip-addresses)

Internal DNS

Learn about the internal DNS service.

(/compute/docs/internal-dns)

Load balancing and scaling

Compute Engine load balancing and scaling

An overview of load balancing and autoscaling options for Compute Engine.

(/compute/docs/load-balancing-and-autoscaling)

Regions and zones

Viewing available regions and zones

Learn how regions and zones relate to each other.

(/compute/docs/regions-zones/viewing-regions-zones)

Global, regional, and zonal resources

An overview of different global, regional, and zonal resources.

(/compute/docs/regions-zones/global-regional-zonal-resources)

Access control

Compute Engine access control options

An overview of the different ways you can configure access for your users or instances that need to manage your Compute Engine resources.

(/compute/docs/access)

Compute Engine IAM roles

Learn more about using IAM roles with Compute Engine.

(/compute/docs/access/iam)

Compute Engine IAM permissions

Learn more about using IAM permissions with Compute Engine.

(/compute/docs/access/iam)

Service accounts

An overview of service accounts, access scopes, and Identity and Access Management (IAM) roles that apply to service accounts.

(/compute/docs/access/service-accounts)

OS Login

Get an overview of how OS Login works, and review the benefits of using OS Login to manage access to your VM instances.

(/compute/docs/oslogin)

Containers on Compute Engine

Containers on Compute Engine

Learn about container technologies that can be run on Compute Engine.

(/compute/docs/containers)

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