ONE PAGE SUMMARY

IT & Software › Google Cloud Platform › Compute Engine

Introduction to Compute Engine

Unlock the Power of Google Cloud with Compute Engine!

DEFINITION

> Compute Engine is a service that allows users to run virtual machines on Google Cloud. It provides scalable and flexible computing resources for various applications.

KEY CONCEPTS

Virtual Machines

Compute Engine enables the creation of virtual machines that can run different operating systems.

Scalability

Users can easily scale their resources up or down based on demand, ensuring efficiency.

Custom Images

You can create custom images to deploy specific configurations and applications quickly.

Persistent Disks

Persistent disks provide durable storage that can be attached to virtual machines.

Preemptible VMs

These are cost-effective virtual machines that can be terminated by Google Cloud at any time.

EXAMPLES

→ Launching a web server using a Compute Engine instance.

→ Scaling application resources during peak traffic with Compute Engine.

→ Creating a custom VM image for a specific software stack.

MEMORY TIPS

★ Remember 'Compute Engine' as the 'engine' driving your cloud computing needs.

★ Think of VMs as 'virtual machines' that mimic physical computers.

★ Associate 'scalability' with 'stretching' resources to meet demands.

COMMON MISTAKES

✗ Not considering the cost implications of using high-performance VMs.

✗ Overlooking the importance of persistent disks for data storage.

✗ Failing to configure firewall rules for VM security.

QUICK RECAP

Compute Engine provides virtual machines for scalable cloud computing. Key features include custom images, persistent disks, and preemptible VMs, all designed to enhance flexibility and efficiency.