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Introduction to Compute Engine

Unlock the Power of Virtual Machines with Compute Engine!

DEFINITION

> Compute Engine is Google Cloud's service for creating and managing virtual machines. It allows users to run applications on scalable and flexible infrastructure.

KEY CONCEPTS

Virtual Machines

Compute Engine lets you create virtual machines that simulate physical computers.

Scalability

You can easily scale your resources up or down based on demand.

Preemptible VMs

These are cost-effective, short-term VMs that can be terminated by Google at any time.

Custom Images

You can create and use custom images to deploy your applications quickly.

Load Balancing

Compute Engine supports load balancing to distribute traffic across multiple VMs.

EXAMPLES

→ Launching a web server on a Compute Engine VM.

→ Scaling a database application during peak traffic hours.

→ Using preemptible VMs for batch processing tasks.

MEMORY TIPS

★ Think of 'Compute Engine' as a 'machine factory' in the cloud.

★ Remember 'VM' for 'Virtual Machine' to link it to Compute Engine.

★ Associate 'preemptible' with 'temporary' for cost-effective solutions.

COMMON MISTAKES

✗ Overlooking the cost implications of running multiple VMs.

✗ Not configuring firewalls properly, leading to security risks.

✗ Ignoring the benefits of using preemptible VMs for non-critical tasks.

QUICK RECAP

Compute Engine provides scalable virtual machines for running applications in the cloud. Remember to utilize features like preemptible VMs and custom images for cost efficiency and speed.