**Module Quiz**

**1.Question 1**

**Which of the following does not allow you to interact with GCP?**



Cloud Shell

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**Cloud Explorer**



REST-based API



GCP Console

**Correct**

That's correct! There are four ways you can interact with GCP: There’s the GCP Console, Cloud Shell and the Cloud SDK, the APIs, and the Cloud Mobile App. The Cloud Explorer is not a Google Cloud tool.

**1 / 1 point**

**2.Question 2**

**What is the difference between GCP Console and Cloud Shell?**



There is no difference as these tools are 100% identical.



Cloud Shell is a locally installed tool, while GCP Console is a temporary virtual machine.



**Cloud Shell is a command-line tool, while GCP Console is a graphical user interface**



GCP Console is a command-line tool, while Cloud Shell is a graphical user interface

**Correct**

The GCP Console is a graphical user interface and Cloud Shell is a command-line tool. Both tools allow you to interact with GCP. Even though GCP Console can do things Cloud Shell can't do and vice-versa, don’t think of them as alternatives, but think of them as one extremely flexible and powerful interface.

## Module Quiz

**1.Question 1**

**In GCP, what is the minimum number of IP addresses that a VM instance needs?**



**One: Only an internal IP address**



Two: One internal and one external IP address



Three: One internal, one external and one alias IP address

**Correct**

That's correct! In GCP, each virtual machine needs to have an internal IP address. The external IP address is optional; therefore, a VM instance only needs one IP address.

**1 / 1 point**

**2.Question 2**

**What are the three types of networks offered in the Google Cloud Platform?**



Zonal, regional, and global



Gigabit network, 10 gigabit network, and 100 gigabit network



**Default network, auto network, and custom network.**



IPv4 unicast network, IPv4 multicast network, IPv6 network

**Correct**

The default-type network established fixed standard subnetworks with predefined IP ranges and it is fast to setup. The auto-type network uses the same subnet IP ranges as the default-type, with a network name other than default. And custom-type allows you to specify the IP ranges of subnets.

**1 / 1 point**

**3.Question 3**

**What is one benefit of applying firewall rules by tag rather than by address?**



Tags help organizations track firewall billing.



Tags in network traffic help with network sniffing.



Tags on firewall rules control which ephemeral IP addresses VMs will receive.



**When a VM is created with a matching tag, the firewall rules apply irrespective of the IP address it is assigned.**

**Correct**

When a VM is created the ephemeral external IP address is assigned from a pool. There is no way to predict which address will be assigned, so there is no way to write a rule that will match that VM's IP address before it is assigned. Tags allow a symbolic assignment that does not depend on order in the IP addresses. It makes for simpler, more general, and easier to maintain, firewall rules.

## Module Quiz

**1.Question 1**

**Which statement is true of Virtual Machine Instances in Google Compute Engine?**



**In Compute Engine, a VM is a networked service that simulates the features of a computer.**



All Compute Engine VMs are single tenancy and do not share CPU hardware.



Compute Engine uses VMware to create Virtual Machine Instances.



A VM in Compute Engine always maps to a single hardware computer in a rack.

**Correct**

VMs in Compute Engine are a collection of networked services. This includes disks (persistent disks) which are network-attached. In some cases the GCP VM behaves unlike hardware or other kinds of virtual machines, for example, when a multi-tenant virtual CPU ""bursts"", using excess capacity beyond the VM spec.

**1 / 1 point**

**2.Question 2**

**What are sustained use discounts?**



Discounts you receive by using preemptible VM instances

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**Automatic discounts that you get for running specific Compute Engine resources for a significant portion of the billing month**



Purchase commitments for specific resources you know you will use



Per-second billing that starts after a 1 minute minimum

Ans

Usage of VMs of the same machine type in the same zone are combined as if they were one machine to give the best discount. (Compute Engine combine usage of the same machine type in the same zone as if it were one virtual machine being used for a continuous period. This provides sustained use discounts without penalizing the user for terminating VMs when they are not needed and starting more on demand.)

**3.Question 3**

**Which statement is true of persistent disks?**



Persistent disks are always HDDs (magnetic spinning disks).



Once created, a persistent disk cannot be resized.



### **Persistent disks are physical hardware devices connected directly to VMs.**



**Persistent disks are encrypted by default.**

**Correct**

Persistent Disks are not physical disks, they are a virtual-networked service. Each persistent disk remains encrypted either with system-defined keys or with customer-supplied keys.