

GCP Cloud Digital Leader Exam Crash Course Lab 3

Google Cloud Pricing Calculator Lab

Use the calculator to estimate costs for

- 100 virtual machines (Compute Engine)
- 2TB of Cloud Storage

The pricing calculator is located here

<https://cloud.google.com/products/calculator>

Figure 1 – Pricing Calculator

The screenshot displays the Google Cloud Pricing Calculator interface. At the top, a blue header bar contains the text "Google Cloud Pricing Calculator" and a note "Prices are up to date. Last update: 28 July 2021". Below the header is a navigation bar with icons for various Google Cloud services: Compute Engine, App Engine, AWS, Cloud Run, VMware Engine, GKE, Cloud Storage, Network, and Cloud AI. A search bar is located below the navigation bar. The main configuration area is titled "Instances" and includes the following fields:

- Number of instances: 100
- What are these instances for?: Virtual Machine
- Operating System / Software: Free: Debian, CentOS, CoreOS, Ubuntu, or other User Provided OS
- Machine Class: Regular
- Machine Family: General purpose
- Series: E2
- Machine type: e2-standard-2 (vCPUs: 2, RAM: 8GB)
- ☒ Add Sustained Use Discounts
- Disks location: Iowa (us-central1)
- Instances using ephemeral disks: 0

Each field has a question mark icon to its right. A blue "Estimate" button is located in the top right corner of the configuration area.

Compute Engine is the first tab and is the default page.

Now we want to enter 100 instances. We can leave the defaults as checked off.

Figure 2 – Compute Engine

Google Cloud Pricing Calculator

COMPUTE ENGINE

GKE STANDARD

GKE AUTOPILOT

CLOUD RUN

VMWARE ENGINE

APP ENGINE

CLOUD STORAGE

NETWORKING EGRESS

CLOUD BAL

Instances

Number of instances *

100

?

What are these instances for?

Operating System / Software

Free: Debian, CentOS, CoreOS, Ubuntu, or other User Provided OS

?

Machine Class

Regular

?

Machine Family

General purpose

?

Series

E2

?

Machine type

e2-standard-2 (vCPUs: 2, RAM: 8GB)

?

☒ Add Sustained Use Discounts.

?

Datacenter location

Iowa (us-central1)

?

Now, let's scroll down and select Add to Estimate

Figure 3 – Lower part of Compute Engine Page

Datacenter location
Iowa (us-central1)

Instances using ephemeral public IP

Instances using static public IP

Committed usage
None

Average hours per day each server is running *
24 hours per day

Average days per week each server is running *
7

ADD TO ESTIMATE

We now would like to add some persistent disk to the estimate. Persistent disk for our use case will be used for home directories.

- Enter 1000 in Regional Standard
- Select Include Always Free Usage in my Estimate
- Select "Add to Estimate"

Figure 4 – Persistent Disk

ADD TO ESTIMATE

Persistent Disk

Location

Iowa (us-central1)

?

Zonal standard PD

GiB

?

Regional standard PD

1000

GiB

?

Zonal balanced PD

GiB

?

Regional balanced PD

GiB

?

Zonal SSD PD

GiB

?

Regional SSD PD

GiB

?

Extreme PD

GiB

?

Extreme PD IOPS

?

Snapshot Storage

GiB

?

Multi-regional snapshot Storage

GiB

?

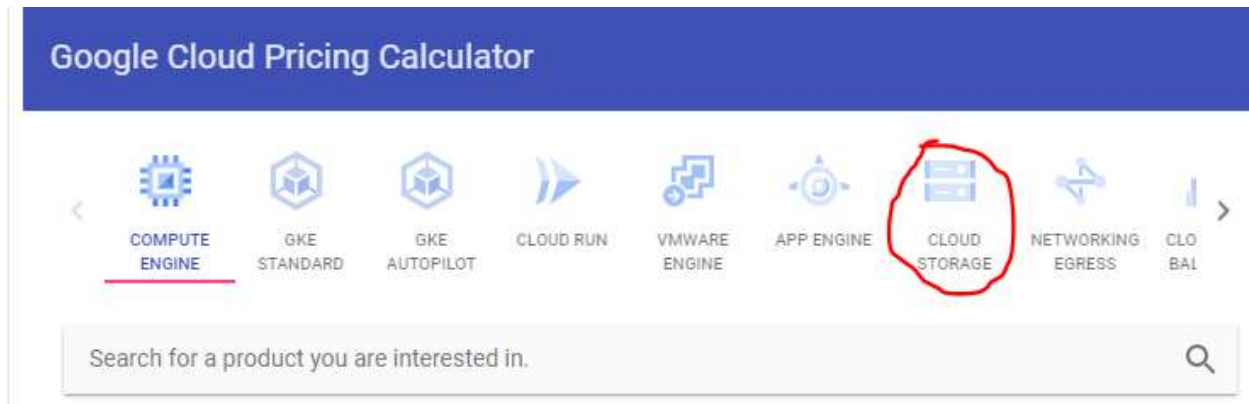
☒ Include Always Free usage in my estimate.

Learn More about [Always Free](#). Always Free is subject to [usage terms, eligibility and restrictions](#).

ADD TO ESTIMATE

- On the top of the page select Cloud Storage as in Figure 6.

Figure 6 – Select Cloud Storage



Add 2TB of Standard Storage

- Enter 2 in Total Amount of Storage
- Select TiB from Drop Down menu
- Select “Add to Estimate”

Figure 7 –Cloud Storage

Google Cloud Pricing Calculator



Search for a product you are interested in.



Standard Storage

Location

Iowa (us-central1)

Total Amount of Storage

2

TiB

"Class A" operations per month (million)

"Class B" operations per month (million)



Include Always Free usage in my estimate.

Learn More about [Always Free](#). Always Free is subject to [usage terms, eligibility, and restrictions](#).

ADD TO ESTIMATE

View Total Estimate and Save/Email

- The Estimate has been completed. View on the right side of the calculator at the top of page.




You can save the estimate or email

Figure 7 –Completed Estimate

Estimate

Compute Engine

100 x



73,000 total hours per month

VM class: regular



Instance type: e2-standard-2

Region: Iowa

Estimated Component Cost: USD 4,891.83 per 1 month

Persistent Disk

Iowa





Regional Standard PD: 1,000 GiB

USD 80.00

USD 80.00

Standard Storage

Iowa



Total Amount of Storage: 2,048 GiB

USD 40.86

Total Estimated Cost: USD 5,012.69 per 1 month

Estimate Currency

USD - US Dollar

EMAIL ESTIMATE

SAVE ESTIMATE

End of Lab Exercise.