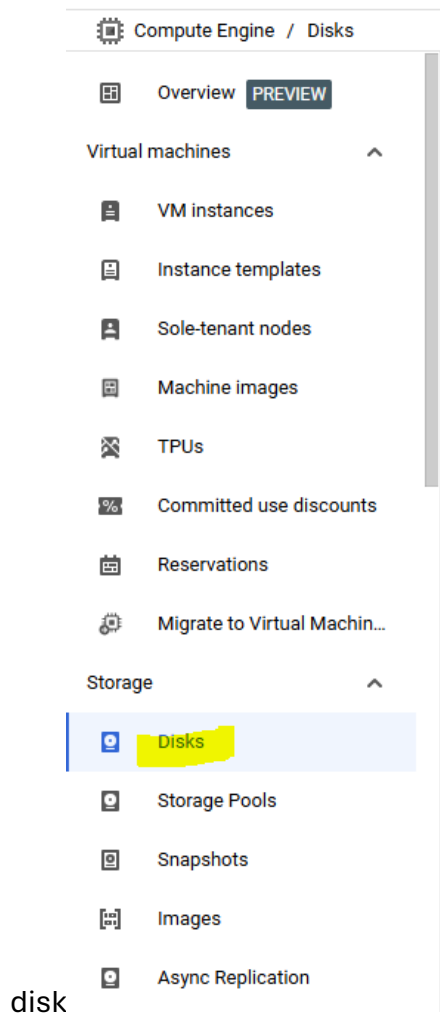


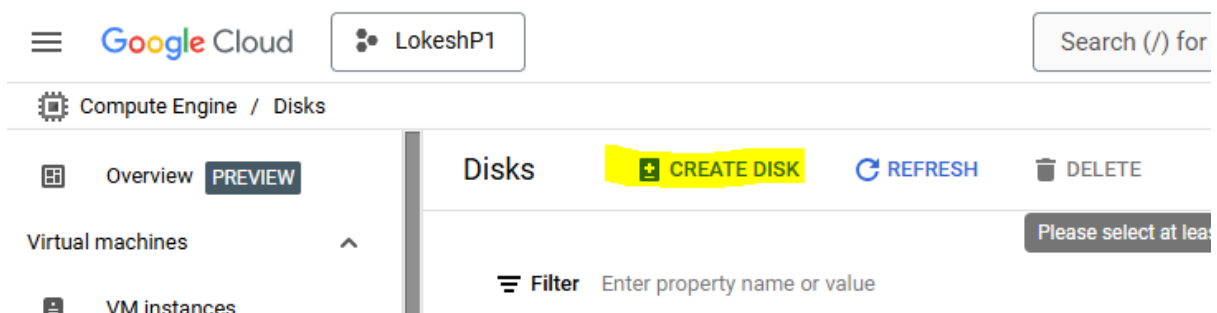
In this Lab we will see options of creating a data disk and how we can attach it to a VM.

Create and attach disk to instance

- 1) Go to Instance page from hamburger menu and scroll down to storage, select



- 2) Click create disk



- 3) Give disk a name
- 4) Select the zone and regions, make sure to select it same as the VM you want to attach to.

← Create a disk

Name *

disk-1

?

Name is permanent

Description

Location

☒ Single zone

☐ Regional

Create a failover replica in the same region for high availability. Storage and data replication is provided between both zones. [Learn more](#)

Region *

us-central1 (Iowa)

▼

?

Zone *

us-central1-f

▼

?

Source

Pricing sumr

You will be billed for

- 5) Select disk type and required size

Source

Create a blank disk, apply a bootable disk image, or restore a snapshot of another disk in this project.

Disk source type *

Blank disk

Disk settings

Disk type *

Balanced persistent disk

[COMPARE DISK TYPES](#)

Size *

10

GB

Provision between 10 and 65,536 GB

Storage pool ?

- 6) Click create at the bottom
- 7) Go back to vm instance page and click on name of the instance where want to connect disk

Compute Engine

Virtual machines

- VM instances
- Instance templates
- Sole-tenant nodes
- Machine images

VM instances

[CREATE INSTANCE](#) [IMPORT VM](#) [REFRESH](#)

[INSTANCES](#) [OBSERVABILITY](#) [INSTANCE SCHEDULES](#)

Filter Enter property name or value

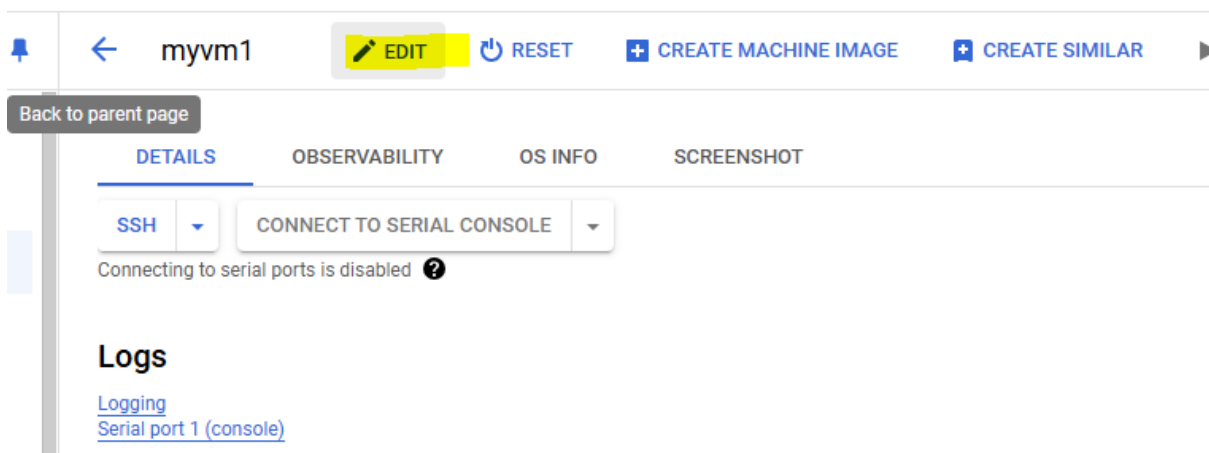
Status	Name	Zone	Recommendations	In use by
<input checked="" type="checkbox"/>	myvm1	us-central1-f		

Related actions

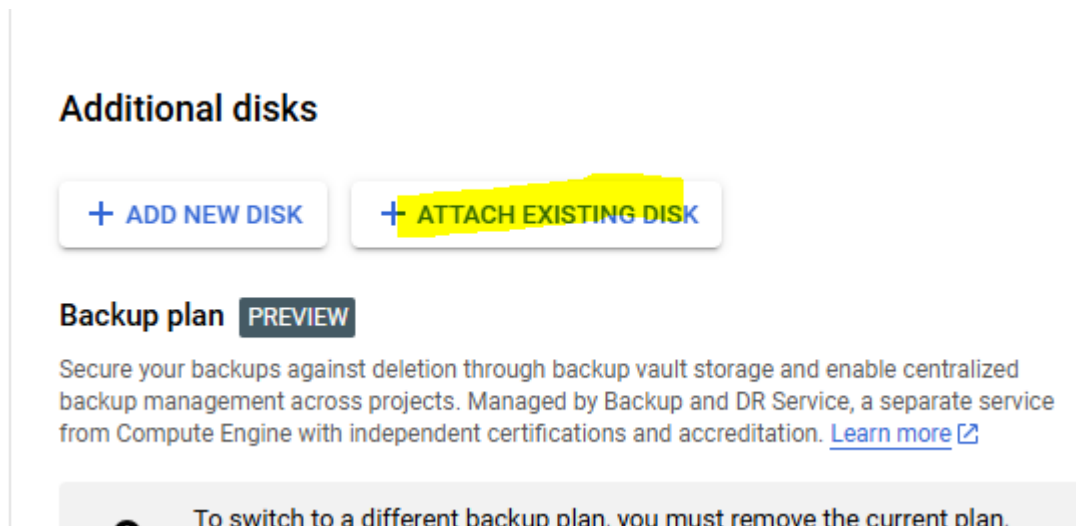
- 8) First connect to VM and run the **lsblk** command to see attached disks, it will show only boot volume

```
Last login: Fri Jan 10 02:55:07 2025 from 33.233.241.17
lokeshdrall1111@myvm1:~$ hostname
myvm1
lokeshdrall1111@myvm1:~$
lokeshdrall1111@myvm1:~$
lokeshdrall1111@myvm1:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
sdb          8:16   0    10G  0 disk
├─sdb1       8:17   0    9.9G  0 part /
├─sdb14      8:30   0     3M  0 part
└─sdb15      8:31   0   124M  0 part /boot/efi
lokeshdrall1111@myvm1:~$
lokeshdrall1111@myvm1:~$
```

9) Now click edit



10) Scroll down and click attach existing disk



11) Select the newly created disk, keep it read/write and click save

Disk *

disk-1

Attachment settings

Mode
Disk attachment mode

☒ Read/write

☐ Read-only

Deletion rule
When deleting instance

☒ Keep disk

☐ Delete disk

Device name ?
Used to reference the device for mounting or resizing.

☐ Use a custom device name

Device name

disk-1

Based on disk name (default)

SAVE

CANCEL

12) Click save button at the bottom of the page

Secure your backups against deletion through backup vault storage and enable centralized backup management across projects. Managed by Backup and DR Service, a separate service from Compute Engine with independent certifications and accreditation. [Learn more](#)

i To switch to a different backup plan, you must remove the current plan, save changes, and then return to this page and apply a new plan.

Backup plan

SELECT A PLAN

SAVE

CANCEL

13) Now should be able to view that attached disk under local disks

myvm1 EDIT RESET CREATE MACHINE IMAGE CREATE SIMILAR START / RESUME STOP SUSPEND DELETE

DETAILS OBSERVABILITY OS INFO SCREENSHOT

Storage

Boot disk

Name ↑	Image	Interface type	Size (GB)	Device name	Type	Architecture	Encryption	Mode	Wh
myvm1	debian-12-bookworm-v20241210	SCSI	10	myvm1	Balanced persistent disk	x86_64	Google-managed	Boot, read/write	Del

Local disks

None

Additional disks

Name ↑	Image	Interface type	Size (GB)	Device name	Type	Architecture	Encryption	Mode	Wh
disk-1	—	SCSI	10	disk-1	Balanced persistent disk	—	Google-managed	Read/write	Ke

14) Now if run lsblk again to vm, it will show additional disk as well

```
lokeshdrall1111@myvm1:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
sdb          8:16   0   10G  0 disk
├─sdb1       8:17   0   9.9G  0 part /
├─sdb14      8:30   0    3M  0 part
└─sdb15      8:31   0  124M  0 part /boot/efi
lokeshdrall1111@myvm1:~$
lokeshdrall1111@myvm1:~$
lokeshdrall1111@myvm1:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
sda          8:0    0   10G  0 disk
sdb          8:16   0   10G  0 disk
├─sdb1       8:17   0   9.9G  0 part /
├─sdb14      8:30   0    3M  0 part
└─sdb15      8:31   0  124M  0 part /boot/efi
lokeshdrall1111@myvm1:~$
```