

주요 **CSP Disk(Volume)** 서비스 제공 기능 분석

2022.8. CB-Spider Leader.

- Disk(Volume) 공통 기능을 도출하기 위하여 주요 CSP AWS, Azure, GCP의 Disk(Volume) 서비스 제공 기능 분석
- 웹 Console 중심의 제공 기능 위주 분석
- 분석 결과를 활용하여 CB-Spider Disk 규격 및 Driver API 정의

※ 참고: <https://github.com/cloud-barista/cb-spider/wiki/Disk-and-Driver-API>

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[1] AWS-Volume: Create/Delete/List/Get/Attach/Detach/Modify

CreateVolume

- **Type**, **Size**, **AZ**, **IOPS**(**Type** 의존), **Throughput**(**Type** 의존), **Snapshot ID**(기존 **snapshot**으로부터 생성시), **Encryption** 설정 등

Volume settings

Volume type [Info](#)
General Purpose SSD (gp2) ▼

Size (GiB) [Info](#)
100
Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS [Info](#)
300 / 3000
Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS.

Throughput (MiB/s) [Info](#)
Not applicable

Availability Zone [Info](#)
us-west-2a ▼

Snapshot ID - optional [Info](#)
Don't create volume from a snapshot ▼ 

Encryption [Info](#)
Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.
☐ Encrypt this volume

DeleteVolume

- **Detach** 후 **Delete** 가능, **force** 옵션 존재

ListVolume

- **Name, ID, Type, Size, IOPS, Throughput, Snapshot, Created, AZ, State(Creating, Available, In-use), Attached Instances** 정보 제공

Volumes (3)													↺	Actions ▼
🔍 Filter volumes														
☐	Name ▼	Volume ID ▼	Type ▼	Size ▼	IOPS ▼	Throughput ▼	Snapshot ▼	Created ▼	Availability Zone ▼	Volume state ▼	Alarm status		Attached Instances ▼	
☐	-	vol-05518b7d01feec73e	gp2	10 GiB	100	-	snap-0fc9152...	2022/07/11 12:00 GMT+9	us-west-2a	✔ In-use	No alarms	+	i-05e2f9483592fab5b (spider-function-test-abcdefg...	
☐	powerkim-vol...	vol-0c02d9ea23185dabb	gp2	100 GiB	300	-	-	2022/07/11 14:00 GMT+9	us-west-2a	✔ In-use	No alarms	+	i-05e2f9483592fab5b (spider-function-test-abcdefg...	
☐	-	vol-08a90d1cd05377d6f	gp2	100 GiB	300	-	-	2022/07/11 14:12 GMT+9	us-west-2a	⌚ Creating	No alarms	+	-	

GetVolume

- ID, State, Size, Type, Created, Snapshot, Encryption, Attached Instances 정보 제공

EC2 > Volumes > vol-06a377cc3df2a7b1b

vol-06a377cc3df2a7b1b

Actions ▼

Delete

Modify

Details

Volume ID  vol-06a377cc3df2a7b1b	Size  8 GiB	Type gp2	Volume status  Okay
Volume state  In-use	IOPS 100	Throughput -	Encryption Not encrypted
KMS key ID -	KMS key alias -	KMS key ARN -	Snapshot  snap-0fc9152359927a29b
Availability Zone us-west-2a	Created  Mon Jul 11 2022 18:01:43 GMT+0900 (Korean Standard Time)	Multi-Attach enabled No	Attached Instances i-09e76988585cece28 (vm-01-cb5udtaba5o5irdb3kr0): /dev/sda1 (attached)
Outposts ARN -			

Status checks

Monitoring

Tags

Status checks

Volume status  Okay	Availability Zone  us-west-2a
I/O status  Enabled	I/O performance  Not applicable
I/O status updated on  Mon Jul 11 2022 18:01:43 GMT+0900 (Korean Standard Time)	I/O performance updated on -
Description -	Description  This feature only applies to attached io1, io2, and gp3 volumes.
Auto-enabled I/O  Enabled	

AttachVolume

- Instance ID, Device Name(/dev/sdf) 설정
 - Root Volume: 보통 /dev/sda1 디바이스 이름으로 mount
 - Data Volume: 보통 /dev/sd(f-p) 디바이스 이름으로 mount (설정된 대로 꼭 mount 되는 것은 아님)

Attach volume [Info](#)

Attach a volume to an instance to use it as you would a regular physical hard disk drive.

Basic details

Volume ID

 vol-0c02d9ea23185dabb (powerkim-volume-test)

Availability Zone

us-west-2a

Instance [Info](#)

i-05e2f9483592fab5b ▼



Only instances in the same Availability Zone as the selected volume are displayed.

Device name [Info](#)

/dev/sdf

Recommended device names for Linux: /dev/sda1 for root volume. /dev/sd[f-p] for data volumes.

 Newer Linux kernels may rename your devices to **/dev/xvdf** through **/dev/xvdp** internally, even when the device name entered here (and shown in the details) is **/dev/sdf** through **/dev/sdp**.

Cancel

Attach volume

- Attach 후 Instance 정보: **Volume ID, Device Name, Size, Attached time, Encryption** 여부, **VM** 종료시 동반 삭제 여부

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

▼ Root device details

Root device name

/dev/sda1

Root device type

EBS

EBS optimization

disabled

▼ Block devices

Q

Filter block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID	Delete on termination
vol-05518b7d01feec73e	/dev/sda1	10	✔ Attached	Mon Jul 11 2022 12:00:59 G...	No	–	Yes
vol-0c02d9ea23185dabb	/dev/sdd	100	✔ Attached	Mon Jul 11 2022 14:09:10 G...	No	–	No

DetachVolume

- Unable to detach root volume 'vol-xxx' from instance 'i-xxx'

ModifyVolume

- **Type, Size attach** 상태에서 변경 가능
- 1회 수정 후 **6H** 지나야 다시 수정 가능(**1회/6H, maximum modification rate per volume limit**)

Modify volume [Info](#)

Modify the type, size, and performance of an EBS volume.

Volume details

Volume ID

 vol-05518b7d01feec73e

Volume type [Info](#)

General Purpose SSD (gp2) ▼

Size (GiB) [Info](#)

10

Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS [Info](#)

100/3000

Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS.

[Cancel](#) [Modify](#)

Volume type [Info](#)

General Purpose SSD (gp2) ▲

General Purpose SSD (gp2)

General Purpose SSD (gp3)

Provisioned IOPS SSD (io1)

Provisioned IOPS SSD (io2)

Magnetic (standard)

기타

- Volume 상세 정보

[EC2](#) > [Volumes](#) > [vol-05518b7d01feec73e](#)

vol-05518b7d01feec73e

 **Actions** ▼ **Delete** **Modify**

Details

Volume ID  vol-05518b7d01feec73e	Size  10 GiB	Type gp2	Volume status  Okay
Volume state  In-use - optimizing (74%)	IOPS 100	Throughput -	Encryption Not encrypted
KMS key ID -	KMS key alias -	KMS key ARN -	Snapshot  snap-0fc9152359927a29b
Availability Zone us-west-2a	Created  Mon Jul 11 2022 12:00:59 GMT+0900 (Korean Standard Time)	Multi-Attach enabled No	Attached Instances i-05e2f9483592fab5b (spider-function-test-abcdefghijklmnopqrstuvwxyz-abcdefghijklmnopqrstuvwxyz-abcdefghijklmnopqrstuvwxyz-abcdefghijklmnopqrstuvwxyz-abcdefghijklmnopqrstuvwxyz-abcdefghijklmnopqrstuvwxyz-cb5p4qaba5o4rgfg2ab0): /dev/sda1 (attached)
Outposts ARN -			

- Volume 모니터링 정보

Monitoring

The following metrics are provided by Amazon CloudWatch. The graphs have transformations applied to them and might differ from what is natively available in Amazon CloudWatch.

[Manage detailed monitoring](#) 

Read bandwidth (KiB/s)



Write bandwidth (KiB/s)



Read throughput (Ops/s)



Write throughput (Ops/s)



Average queue length (Ops/s)



Time spent idle (%)



Average read size (KiB/op)



Average write size (KiB/op)



Average read latency (ms/op)



Average write latency (ms/op)



Burst balance (%)



[2] Azure-Disks: Create/Delete/List/Get/Attach/Detach/Modify

CreateVolume

- (1) Managed Disk 생성: Resource Group, Disk Name, Region, Type & Size 등 설정
 - Encryption, Networking, Advanced 등은 default 설정으로 생략함

[All services](#) > [Disks](#) >

Create a managed disk ...

[Basics](#) [Encryption](#) [Networking](#) [Advanced](#) [Tags](#) [Review + create](#)

Select the disk type and size needed for your workload. Azure disks are designed for 99.999% availability. Azure managed disks encrypt your data at rest, by default, using Storage Service Encryption. [Learn more about disks.](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Resource group * ⓘ [Create new](#)

Disk details

Disk name * ⓘ ✓

Region * ⓘ

Availability zone

Source type ⓘ

Size * ⓘ **16 GiB**
Premium SSD LRS
[Change size](#)

- (2) VM - disk 정보: 'Create and attach a new disk'로 추가 가능: LUN, Disk Name, Type, Size(GiB), Max IOPS(Type 의존), Max Throughput(Type 의존), Encryption 설정, Host Caching 설정 등

Save

Discard

Refresh

Additional settings

Feedback

Troubleshoot

OS disk

Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption ⓘ	Host caching ⓘ
vm-01-cb5rg62ba5o4rgfg2adg_OsDi	Premium SSD LRS	30	120	25	SSE with PMK	Read/write

Data disks

Filter by name

Showing 1 of 1 attached data disks

Create and attach a new disk

Attach existing disks

LUN ⓘ	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption ⓘ	Host caching ⓘ
0	powerkim-volume-t... ✓	Premium SSD (l... ✓	30 ✓	120	25	Platform-manage... ✓	None

DeleteVolume

- Detach 후 Delete 가능, force option 제공

ListVolume

- Name, Type, Owner(VM), Resource Group, Location

Disks

한국전자통신연구원 (etr2.onmicrosoft.com)

Create

Manage view

Refresh

Export to CSV

Open query

Assign tags

wip

Subscription equals all

Resource group equals all

Location equals all

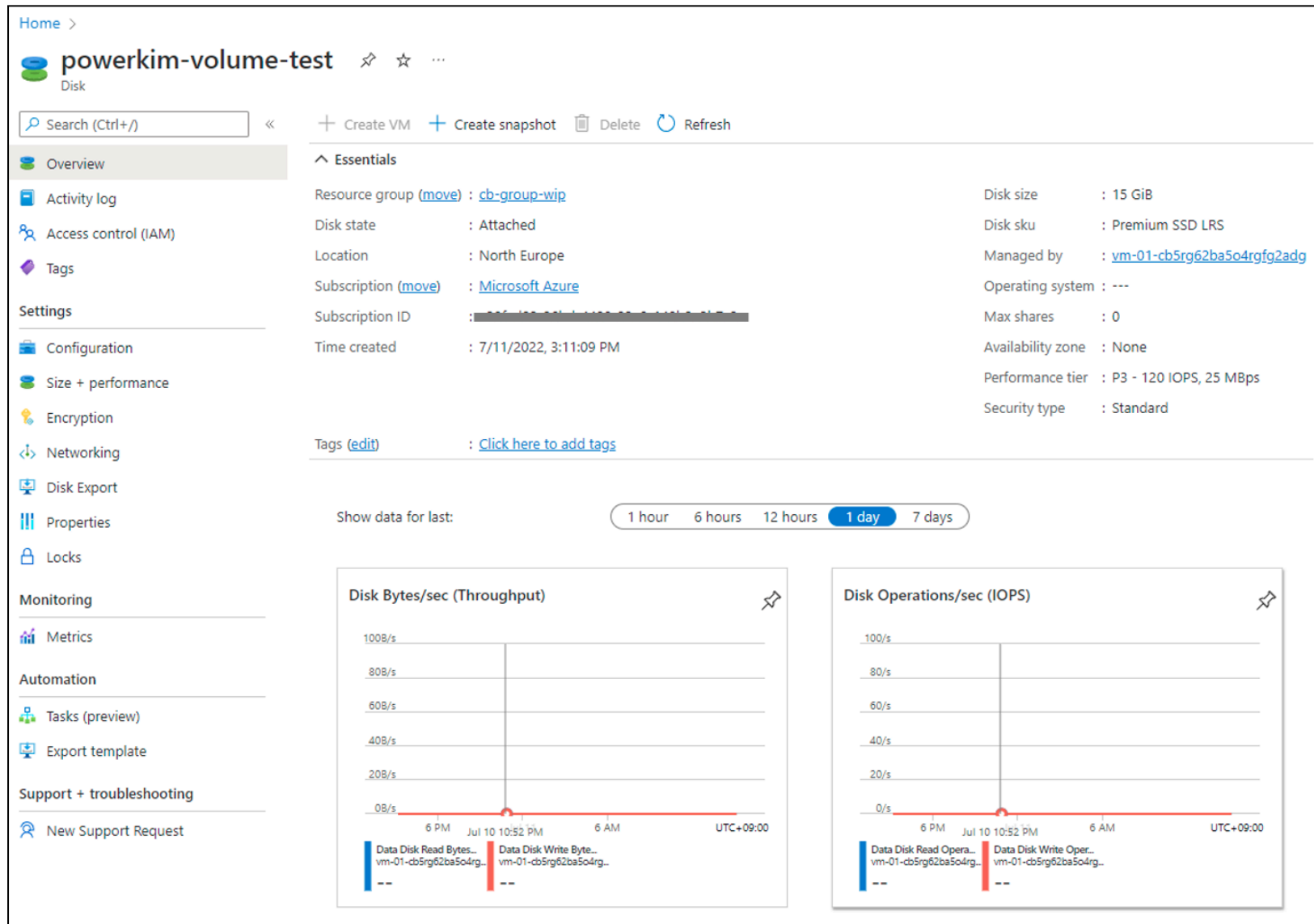
Add filter

No grouping

☐ Name ↑↓	Storage account type ↑↓	Size (G... ↑↓	Owner ↑↓	Resource group ↑↓	Location ↑↓
☐ powerkim-volume-test	Premium SSD LRS	15	vm-01-cb5rg62ba5o4rgfg2adg	CB-GROUP-WIP	North Europe
☐ powerkim-volume-test2	Premium SSD LRS	16	vm-01-cb5rg62ba5o4rgfg2adg	CB-GROUP-WIP	North Europe
☐ powerkim-volume-test3	Premium SSD LRS	8	-	cb-group-wip	North Europe
☐ vm-01-cb5rg62ba5o4rgfg2adg_OsDisk_1_e1eeec5319647ed9f191cf12f94ce81	Premium SSD LRS	30	vm-01-cb5rg62ba5o4rgfg2adg	CB-GROUP-WIP	North Europe

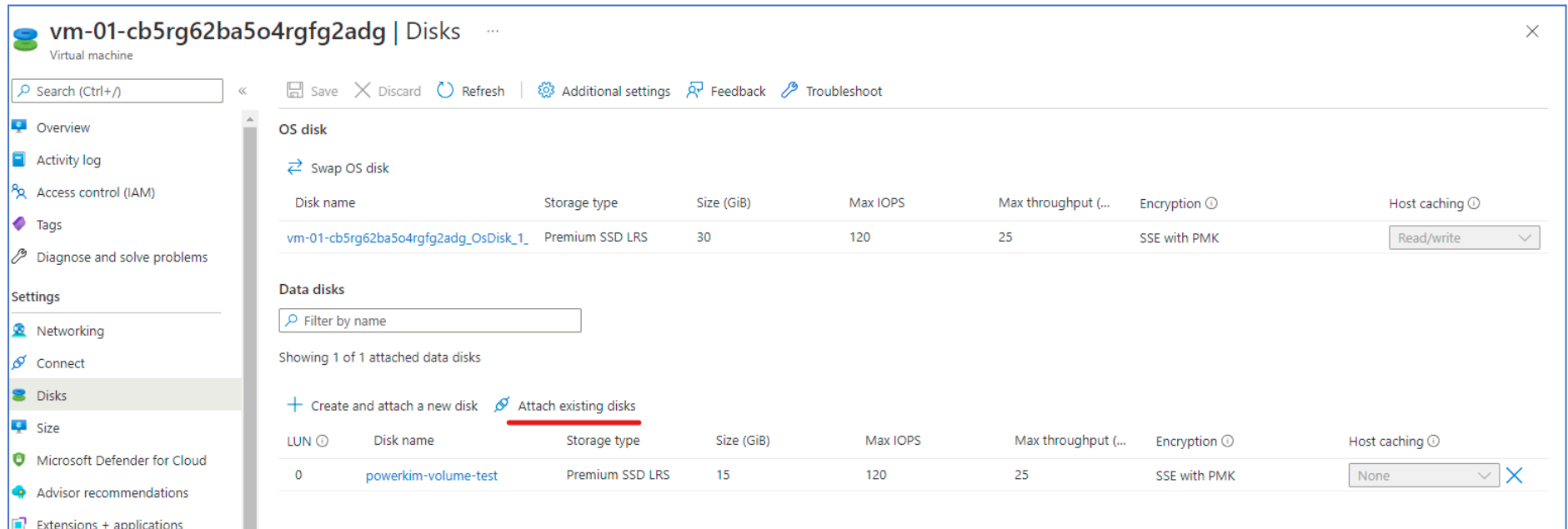
GetVolume

- Resource Group, Disk state(Attached, Unattached), Location, Time Created, Size, Type(Disk sku), Managed by(attached VM), Perf Tier



AttachVolume

- VM 내부에서 **Attach** 가능, **Disk Name** 설정
 - 보통 Root Volume: /dev/sda1
 - Data disks 추가: 'Attach existing disks' 메뉴 활용



vm-01-cb5rg62ba5o4rgfg2adg | Disks ...

Virtual machine

Search (Ctrl+/) « Save Discard Refresh Additional settings Feedback Troubleshoot

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems

Settings

Networking
Connect
Disks
Size
Microsoft Defender for Cloud
Advisor recommendations
Extensions + applications

OS disk

Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption ⓘ	Host caching ⓘ
vm-01-cb5rg62ba5o4rgfg2adg_OsDisk_1_	Premium SSD LRS	30	120	25	SSE with PMK	Read/write ▾

Data disks

Filter by name

Showing 1 of 1 attached data disks

+ Create and attach a new disk Attach existing disks

LUN ⓘ	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption ⓘ	Host caching ⓘ
0	powerkim-volume-test	Premium SSD LRS	15	120	25	SSE with PMK	None ▾

■ 기존 Managed Disk 선택

Filter by name

Showing 2 of 2 attached data disks

+ Create and attach a new disk Attach existing disks

LUN ⓘ	Disk name	Storage type	Size (GiB)	Max IOPS
0	powerkim-volume-test	Premium SSD LRS	15	120
1		Premium SSD LRS	-	-

Type to start filtering...

Disks in resource group 'CB-GROUP-WIP'

POWERKIM-VOLUME-TEST2
size: 16 GiB, storageType: Premium_LRS, disk shares used: 0 of 1

■ Attach 후 Instance Disk 정보: LUN, Disk name, Type, Size, IOPS, Throughput

◆ VM Mount point는 알 수 없음

OS disk

↔ Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)
vm-01-cb5rg62ba5o4rgfg2adg_OsDisk_1_	Premium SSD LRS	30	120	25

Data disks

Filter by name

Showing 2 of 2 attached data disks

+ Create and attach a new disk Attach existing disks

LUN ⓘ	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)
0	powerkim-volume-test	Premium SSD LRS	15	120	25
1	powerkim-volume-test2	Premium SSD LRS	16	120	25

DetachVolume

ModifyVolume

- **Type, Size, Tags** 등 변경 가능

powerkim-disk-test | Size + performance ☆ ...
Disk

Search (Ctrl+ /) «

Overview

Activity log

Access control (IAM)

Tags

Settings

Configuration

Size + performance

Encryption

Networking

Disk Export

Properties

Locks

Monitoring

Metrics

Automation

Disk SKU ⓘ
Standard HDD (locally-redundant storage) ▼

Size	Disk tier	Provisioned IOPS	Provisioned thro...	Max Shares ⓘ
32 GiB	S4	500	60	-
64 GiB	S6	500	60	-
128 GiB	S10	500	60	-
256 GiB	S15	500	60	-
512 GiB	S20	500	60	2
1024 GiB	S30	500	60	5
2048 GiB	S40	500	60	5
4096 GiB	S50	500	60	5
8192 GiB	S60	1300	300	5
16384 GiB	S70	2000	500	5
32767 GiB	S80	2000	500	5

Custom disk size (GiB) * ⓘ
64 ✓

[3] GCP-Disks: Create/Delete/List/Get/Attach/Detach/Modify

CreateVolume

- (1) Storage - Disks 생성: Name, Location(single | multi zone), Type, Size(GB), Snapshot Schedule, Encryption 등 설정

- ◆ Location을 Regional 선택하여 Replica 구성 가능(**cross-zone**)

← Create a disk

Name *

powerkim-volume-test

?

Name is permanent

Description

Location

☒ Single zone

☐ Regional

Create a failover replica in the same region for high availability. [Learn more](#)

Region *

us-central1 (Iowa)

▼

?

Zone *

us-central1-a

▼

?

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 *

100

GB

?

Provision between 10 and 65,536 GB

Snapshot schedule (Recommended)

Use snapshot schedules to automate disk backups. [Learn more](#)

☒ Enable snapshot schedule

Select or create a snapshot schedule *

default-schedule-1

▼

Every day, starts between 3:00 PM and 4:00 PM

Encryption

Data is encrypted automatically. Select an encryption key management solution.

☒ Google-managed encryption key

No configuration required

☐ Customer-managed encryption key (CMEK)

Manage via Google Cloud Key Management Service

☐ Customer-supplied encryption key (CSEK)

Manage outside of Google Cloud

Labels ?

+ ADD LABEL

You're creating an unformatted disk. Format the disk after you attach it to your VM instance. [Formatting and mounting a zonal persistent disk](#)

CREATE

CANCEL

EQUIVALENT COMMAND LINE

▼

- (2) VM – Edit에서 – ‘ADD NEW DISK’로 추가 가능: Name, Type, Size(GB), Snapshot Schedule, Encryption 및 Attach 설정(Mode, Deletion rule) 등

Add new disk

Name *

powekrim-volume-test2

Name is permanent

Description

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 *

20

GB

Provision between 10 and 65,536 GB

Snapshot schedule (Recommended)

Use snapshot schedules to automate disk backups. [Learn more](#)

Select a snapshot schedule

Encryption

Data is encrypted automatically. Select an encryption key management solution.

☒ Google-managed encryption key

No configuration required

☐ Customer-managed encryption key (CMEK)

Manage via Google Cloud Key Management Service

☐ Customer-supplied encryption key (CSEK)

Manage outside of Google Cloud

Labels ?

+ ADD LABEL

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

powekrim-volume-test2

Based on disk name (default)

You're creating an unformatted disk. Format the disk after you attach it to your VM instance. [Formatting and mounting a zonal persistent disk](#)

This new disk will be created and attached once you save the instance

SAVE

CANCEL

DeleteVolume

- VM - Edit에서 Detach 후 Storage - Disks에서 Delete 가능

ListVolume

- Status, Name, Type, Size, Zone(s), In use by(VM), Snapshot schedule

Disks

+

CREATE DISK

↺

REFRESH

🗑

DELETE

⚙

OPERATIONS

▼

💬

HELP ASSISTANT

🎓

LEARN

ℹ

SHOW INFO PANEL

≡

Filter

Enter property name or value

?

≡

	Status	Name ⬇	Type	Size	Zone(s)	In use by		Snapshot schedule	Actions
	✓	vm-01-cb5vg5iba5o5irdb3ktg	Standard persistent disk	10 GB	us-central1-a	vm-01-cb5vg5iba5o5ir...	▼	None	
	✓	powerkim-volume-test	Balanced persistent disk	30 GB	us-central1-a			default-schedule-1	
	✓	powekrim-volume-test2	Balanced persistent disk	20 GB	us-central1-a	vm-01-cb5vg5iba5o5irdb3ktg		None	

GetVolume

- **Type, Size, Zone, In use by(VM), Snapshot schedule, Encryption** 

Compute Engine

Virtual machines

VM instances

Instance templates

Sole-tenant nodes

Machine images

TPUs

Committed use discounts

Migrate for Compute Engine

Storage

Disks

Snapshots

Images

Manage disk

CREATE INSTANCE

CREATE

powekrim-volume-test2

DETAILS

MONITORING

Properties

Type

Balanced persistent disk

Size ?

20 GB

Zone

us-central1-a

Labels

None

In use by

[vm-01-cb5vg5iba5o5irdb3ktg](#)

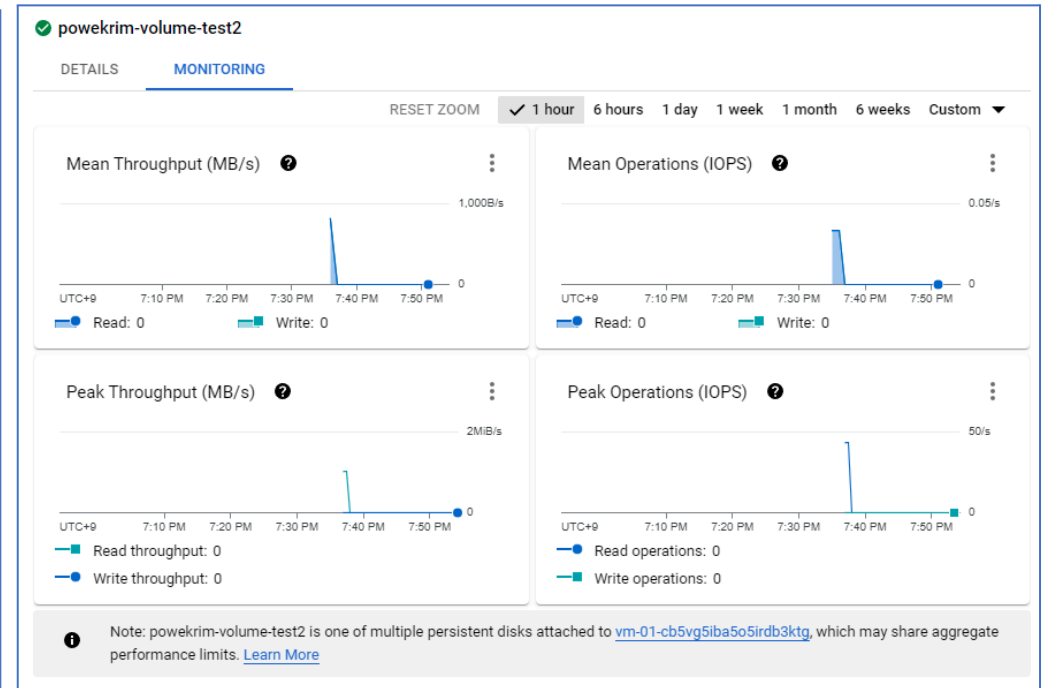
Snapshot schedule

None

Encryption type

Google-managed

EQUIVALENT REST



AttachVolume

- VM – Edit 에서 기존 **Disk Attach** 가능: 기존 **Disk** 선택, **Mode(Read/Write, Read-only)** 선택, **Deletion rule** 선택 등
 - Additional disks: ‘ATTACH EXISTING DISK’ 메뉴 활용

The screenshot displays the 'Edit vm-01-cb5vg5iba5o5irdb3ktg instance' page in the Google Cloud Platform console. The 'Storage' tab is active, showing the 'Boot disk' and 'Additional disks' sections. The 'Additional disks' section has the 'ATTACH EXISTING DISK' button highlighted in red. A modal window titled 'Existing disk' is open, showing a list of disks. The disk 'powerkim-volume-test' is selected and highlighted in blue, with its description 'Balanced persistent disk, 30 GB, not attached' underlined in red. The modal also shows 'Deletion rule' options (Keep disk selected, Delete disk) and a 'Device name' field with the value 'powerkim-volume-test'.

Storage

Boot disk

Name	Image	Size	Interface type	Type	Encryption type	Mode	Snapshot schedule
vm-01-cb5vg5iba5o5irdb3ktg	ubuntu-minimal-1804-bionic-v20191024	10 GB	SCSI	Standard persistent disk	Google-managed	Boot, read/write	None

Deletion rule

When deleting instance

☐ Keep disk

☒ Delete disk

Device name ⓘ

Used to reference the device for mounting or resizing.

Device name

persistent-disk-0

Custom

✕ DETACH BOOT DISK

Additional disks

Existing disk	
powerkim-volume-test2	

Local disks

None

Existing disk

Disk *

Filter Type to filter

powerkim-volume-test2

Balanced persistent disk, 40 GB, in use by: vm-01-cb5vg5iba5o5irdb3ktg

☒ powerkim-volume-test

Balanced persistent disk, 30 GB, not attached

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

powerkim-volume-test

Based on disk name (default)

SAVE **CANCEL**

- Attach 후 Instance Disk 정보: Name, Interface Type, Size, Device Name, Type, Encryption, Mode, Deletion rule

◆ VM Mount point는 알 수 없음

Storage

Boot disk

Name ↑	Image	Interface type	Size (GB)	Device name	Type	Encryption	Mode	When deleting
vm-01-cb5vg5iba5o5irdb3ktg	ubuntu-minimal-1804-bionic-v20191024	SCSI	10	persistent-disk-0	Standard persistent disk	Google-managed	Boot, read/write	Delete disk

Local disks

None

Additional disks

Name ↑	Image	Interface type	Size (GB)	Device name	Type	Encryption	Mode	When deleting instance
powekrim-volume-test2	—	SCSI	40	powekrim-volume-test2	Balanced persistent disk	Google-managed	Read/write	Keep disk
powerkim-volume-test	—	SCSI	30	powerkim-volume-test	Balanced persistent disk	Google-managed	Read/write	Keep disk

DetachVolume

- VM □ Edit에서 detach 가능

 Edit vm-01-cb5vg5iba5o5irdb3ktg instance

persistent-disk-0

Custom

 DETACH BOOT DISK

Additional disks

Existing disk	powekrim-volume-test2	 
Existing disk	powerkim-volume-test	 

 ADD NEW DISK

 ATTACH EXISTING DISK

Local disks

None

Modify Volume

- **Size, Snapshot schedule** 변경 가능 (같거나 큰 **Size**로만 변경 가능)

✓ powekrim-volume-test2

Properties

Size GB ?
Provision between 20 and 65,536 GB

Snapshot schedule

Labels

+ ADD LABEL

Type	Balanced persistent disk
Zone	us-central1-a
In use by	vm-01-cb5vg5iba5o5irdb3ktg
Encryption type	Google-managed

SAVE

CANCEL

Snapshot schedule

Select or create a snapshot schedule

Filter | Type to filter

No schedule

default-schedule-1

Every day, starts between 3:00 PM and 4:00 PM

CREATE A SCHEDULE

Encryption type