

LINUX EC2 MACHINE

Instances (1) Info

Refresh

Connect

Instance state ▼

Actions ▼

Launch instances ▼

Find Instance by attribute or tag (case-sensitive)

Running ▼

< 1 > ⚙

<input type="checkbox"/>	Name	Instance ID	Instance state ▼	Instance type ▼	Status check	Alarm status	Availability Zone ▼	Public IPv4 DNS
<input type="checkbox"/>	ebs-linux	i-0db13ba9de899375d	Running	t2.micro	2/2 checks passed View alarms +		ap-south-1b	ec2-13-201-190-2

DEFAULT EBS ROOT VOLUME

i-0db13ba9de899375d (ebs-linux)

Details

Status and alarms [New](#)

Monitoring

Security

Networking

Storage

Tags

▼ Root device details

Root device name
 `/dev/sda1`

Root device type
EBS

EBS optimization
disabled

▼ Block devices

Filter block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID
vol-047044434fac110a7	/dev/sda1	8	Attached	2024/04/23 21:16 GMT+5:30	No	–

VOLUME OF 5 GB



Create volume [Info](#)

Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.

Volume settings

Volume type [Info](#)

General Purpose SSD (gp3) ▼

 General Purpose SSD gp3 is now the default selection. gp3 provides up to 20% lower cost per GB than gp2.
[Learn More](#) 

Size (GiB) [Info](#)

5 ▼

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

IOPS [Info](#)

3000

Min: 3000 IOPS, Max: 16000 IOPS. The value must be an integer.

Throughput (MiB/s) [Info](#)

125

Min: 125 MiB, Max: 1000 MiB. Baseline: 125 MiB/s.

Availability Zone [Info](#)

ap-south-1b

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

Tags - *optional* [Info](#)

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key

Q Name



Value - *optional*

Q Linux-ebs



Remove

Add tag

You can add 49 more tags.

Volumes (1/2) [Info](#)

Q Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
<input type="checkbox"/>	-	vol-047044434fac110a7	gp2	8 GiB	100	-	snap-05e04e0...
<input checked="" type="checkbox"/>	Linux-ebs	vol-0e16eae494f36f90a	gp3	5 GiB	3000	125	-

Volume ID: vol-0e16eae494f36f90a (Linux-ebs)

[Details](#) [Status checks](#) [Monitoring](#) [Tags](#)



Actions

Create volume

- Modify volume
- Create snapshot
- Create snapshot lifecycle policy
- Delete volume
- Attach volume
- Detach volume
- Force detach volume
- Manage auto-enabled I/O
- Manage tags
- Fault injection

Basic details

Volume ID

 vol-0e16eae494f36f90a (Linux-ebs)

Availability Zone

ap-south-1b

Instance [Info](#)

i-0db13ba9de899375d ▼




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

Device name [Info](#)


/dev/sdv ▼





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

Successfully attached volume vol-0e16eae494f36f90a to instance i-0db13ba9de899375d.

Volumes (2) Info											
<div><input type="text" value="Search"/></div>											
<div><div>< 1 ></div><div> <div>Actions ▼</div> Create volume</div></div>											
<input type="checkbox"/>	Name ▼	Volume ID ▼	Type ▼	Size ▼	IOPS ▼	Throughput ▼	Snapshot ▼	Created ▼	Availability		
<input type="checkbox"/>	-	vol-047044434fac110a7	gp2	8 GiB	100	-	snap-05e04e0...	2024/04/23 21:16 GMT+5:...	ap-sou		
<input type="checkbox"/>	Linux-ebs	vol-0e16eae494f36f90a	gp3	5 GiB	3000	125	-	2024/04/23 21:19 GMT+5:...	ap-sou		

Volume state ▼	Alarm status	Attached resources
 In-use	No alarms	 i-0db13ba9de899375d (et
 In-use	No alarms	 i-0db13ba9de899375d (et

```
aws Services Search [Alt+S] Mumbai Sriram Jagadeesan
ubuntu@ip-172-31-10-22:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0        7:0      0  24.9M  1 loop /snap/amazon-ssm-agent/7628
loop1        7:1      0  55.7M  1 loop /snap/core18/2812
loop2        7:2      0  63.9M  1 loop /snap/core20/2182
loop3        7:3      0   87M  1 loop /snap/lxd/27037
loop4        7:4      0  40.4M  1 loop /snap/snapd/20671
xvda         202:0    0    8G  0 disk
├--xvda1     202:1    0   7.9G  0 part /
├--xvda14    202:14   0    4M  0 part
├--xvda15    202:15   0  106M  0 part /boot/efi
└--xvdv      202:5376   0    5G  0 disk
ubuntu@ip-172-31-10-22:~$ sudo file -s /dev/xvdv
/dev/xvdv: data
ubuntu@ip-172-31-10-22:~$ sudo mkfs.
mkfs.bfs      mkfs.btrfs  mkfs.cramfs  mkfs.ext2    mkfs.ext3    mkfs.ext4    mkfs.fat     mkfs.minix   mkfs.msdos   mkfs.ntfs    mkfs.vfat    mkfs.xfs
ubuntu@ip-172-31-10-22:~$ sudo mkfs -t ext4 /dev/xvdv
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 1310720 4k blocks and 327680 inodes
Filesystem UUID: d220ae6e-a9b0-49f5-be4e-de181869b570
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376, 294912, 819200, 884736
Allocating group tables: done
Writing inode tables: done
Creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done
```

```
ubuntu@ip-172-31-10-22:~$ sudo file -s /dev/xvdv
/dev/xvdv: Linux rev 1.0 ext4 filesystem data, UUID=d220ae6e-a9b0-49f5-be4e-de181869b570 (extents) (64bit) (large files) (huge files)
ubuntu@ip-172-31-10-22:~$ sudo mkdir /ebs
ubuntu@ip-172-31-10-22:~$ ls /
bin  boot  dev  ebs  etc  home  lib  lib32  lib64  libx32  lost+found  media  mnt  opt  proc  root  run  sbin  snap  srv  sys  usr  var
ubuntu@ip-172-31-10-22:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0        7:0      0  24.9M  1 loop /snap/amazon-ssm-agent/7628
loop1        7:1      0  55.7M  1 loop /snap/core18/2812
loop2        7:2      0  63.9M  1 loop /snap/core20/2182
loop3        7:3      0   87M  1 loop /snap/lxd/27037
loop4        7:4      0  40.4M  1 loop /snap/snapd/20671
xvda         202:0    0    8G  0 disk
├--xvda1     202:1    0   7.9G  0 part /
├--xvda14    202:14   0    4M  0 part
├--xvda15    202:15   0  106M  0 part /boot/efi
└--xvdv      202:5376   0    5G  0 disk
```

```
aws Services Search [Alt+S] Mumbai Sriram Jagadeesan
ubuntu@ip-172-31-10-22:~$ sudo apt update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1608 kB]
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [303 kB]
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1826 kB]
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [310 kB]
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1070 kB]
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [244 kB]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [42.7 kB]
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [10.4 kB]
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]
Get:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [67.1 kB]
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.0 kB]
Get:23 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [308 B]
Get:24 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [28.4 kB]
```

```
aws Services Search [Alt+S] Mumbai Sriram Jagadeesan
ubuntu@ip-172-31-10-22:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.52-1ubuntu4.9).
0 upgraded, 0 newly installed, 0 to remove and 52 not upgraded.
ubuntu@ip-172-31-10-22:~$ sudo mount /dev/xvdv /var/www/html
ubuntu@ip-172-31-10-22:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0        7:0      0  24.9M  1 loop /snap/amazon-ssm-agent/7628
loop1        7:1      0  55.7M  1 loop /snap/core18/2812
loop2        7:2      0  63.9M  1 loop /snap/core20/2182
loop3        7:3      0   87M  1 loop /snap/lxd/27037
loop4        7:4      0  40.4M  1 loop /snap/snapd/20671
xvda         202:0    0    8G  0 disk
├--xvda1     202:1    0   7.9G  0 part /
├--xvda14    202:14   0    4M  0 part
├--xvda15    202:15   0  106M  0 part /boot/efi
└--xvdv      202:5376   0    5G  0 disk /var/www/html
```

MOUNTING PARTICULAR APACHE2 WEB SERVER TO EBS VOLUME

```
ubuntu@ip-172-31-10-22:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root        7.6G  1.8G  5.8G  24% /
tmpfs            475M   0  475M   0% /dev/shm
tmpfs            190M  868K  189M   1% /run
tmpfs            5.0M   0   5.0M   0% /run/lock
/dev/xvda15      105M   6.1M   99M   6% /boot/efi
tmpfs            95M   4.0K   95M   1% /run/user/1000
/dev/xvdv        4.9G   24K   4.6G   1% /var/www/html
```

```
GNU nano 0.2
LABEL=cloudimg-rootfs / ext4 discard,errors=remount-ro 0 1
LABEL=UEFI /boot/efi vfat umask=0077 0 1
/dev/xvdv /ebs ext4 default,nofail 0 2
```

```
ubuntu@ip-172-31-10-22:~$ sudo nano /etc/fstab
ubuntu@ip-172-31-10-22:~$ sudo -i
root@ip-172-31-10-22:~# cd /var/www/html
root@ip-172-31-10-22:/var/www/html# ls
lost+found
root@ip-172-31-10-22:/var/www/html# nano demo.txt
root@ip-172-31-10-22:/var/www/html# cat demo.txt
Learn AWS AND EBS
```

CREATED SNAPSHOT

Successfully attached volume vol-0e16eae494f36f90a to instance i-0db13ba9de899375d.

Volumes (1/2) Info

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
<input type="checkbox"/>	-	vol-047044434fac110a7	gp2	8 GiB	100	-	snap-05e04e0...
<input checked="" type="checkbox"/>	Linux-ebs	vol-0e16eae494f36f90a	gp3	5 GiB	3000	125	-

Volume ID: vol-0e16eae494f36f90a (Linux-ebs)

Details Status checks Monitoring Tags

Volume ID Size Type Volume s

Actions

- Create volume
- Modify volume
- Create snapshot
- Create snapshot lifecycle policy
- Delete volume
- Attach volume
- Detach volume
- Force detach volume
- Manage auto-enabled I/O
- Manage tags
- Fault injection

Volume ID

 vol-0e16eae494f36f90a (Linux-ebs)

Description

Add a description for your snapshot

ebs -lin

255 characters maximum.

Encryption [Info](#)

Not encrypted

Tags [Info](#)

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key

Value - optional

 Name 

 EBS-LINUX SNAP 

Remove

Add tag

You can add 49 more tags.

Cancel

Create snapshot

☑ Successfully created snapshot [snap-07e99c94e9fa319c7](#) from volume [vol-0e16eae494f36f90a](#).
If you need your snapshot to be immediately available consider using Fast Snapshot Restore.

Manage fast snapshot restore



Volumes (2) [Info](#)



Actions

Create volume

 Search

< 1 > 

<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability
<input type="checkbox"/>	-	vol-047044434fac110a7	gp2	8 GiB	100	-	snap-05e04e0...	2024/04/23 21:16 GMT+5:...	ap-south-1
<input type="checkbox"/>	Linux-ebs	vol-0e16eae494f36f90a	gp3	5 GiB	3000	125	-	2024/04/23 21:19 GMT+5:...	ap-south-1

Snapshots (1/1) Info

Owned by me

Search

Refresh

Recycle Bin

Actions

Create snapshot

< 1 >

Settings

<input checked="" type="checkbox"/>	Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status	Started
<input checked="" type="checkbox"/>	EBS-LINUX SN...	snap-07e99c94e9fa319c7	5 GiB	ebs -lin	Standard	Completed	2024/04/23 21:41 GMT+5...

Snapshot ID: snap-07e99c94e9fa319c7 (EBS-LINUX SNAP)

Details Snapshot settings Storage tier Tags

Snapshot ID

🔗 snap-07e99c94e9fa319c7 (EBS-LINUX SNAP)

Owner

🔗 730335347230

Encryption

Not encrypted

Volume size

🔗 5 GiB

Volume ID

🔗 vol-0e16eae494f36f90a

KMS key ID

-

Progress

🟢 Available (100%)

Started

📅 Tue Apr 23 2024 21:41:56 GMT+0530 (India Standard Time)

KMS key alias

-

Snapshot status

🟢 Completed

Product codes

-

KMS key ARN

-

CREATING SNAPSHOT FROM VOLUME

Search [Alt+S]

Refresh

Recycle Bin

Actions

Create snapshot

Owned by me

Search

<input checked="" type="checkbox"/>	Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status	Started
<input checked="" type="checkbox"/>	EBS-LINUX SN...	snap-07e99c94e9fa319c7	5 GiB	ebs -lin	Standard	Completed	2024/04/23 21:41 GMT+5...

Create volume from snapshot

Create image from snapshot

Copy snapshot

Delete snapshot

Manage tags

Snapshot settings

Archiving

Create volume [Info](#)

Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.



Volume settings

Snapshot ID

 `snap-07e99c94e9fa319c7` (EBS-LINUX SNAP)

Volume type [Info](#)

General Purpose SSD (gp3) ▼

 General Purpose SSD gp3 is now the default selection. gp3 provides up to 20% lower cost per GB than gp2.
[Learn More](#) 

Size (GiB) [Info](#)

5

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

IOPS [Info](#)

3000

Min: 3000 IOPS, Max: 16000 IOPS. The value must be an integer.


Throughput (MiB/s) [Info](#)

125

Availability Zone [Info](#)

ap-south-1b

Fast snapshot restore [Info](#)

 Not enabled for selected snapshot

Encryption

Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.

☐ Encrypt this volume

Tags - optional [Info](#)

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key

Q Name



Value - optional

Q linux-Snapshot



Remove

Add tag

You can add 49 more tags.

SUCCESSFULLY CREATED SNAPSHOT FOR LINUX EC2 MACHINE

Successfully created volume vol-0b224e3366198cabd.

Snapshots (1) [Info](#)

Owned by me

Refresh

Recycle Bin

Actions

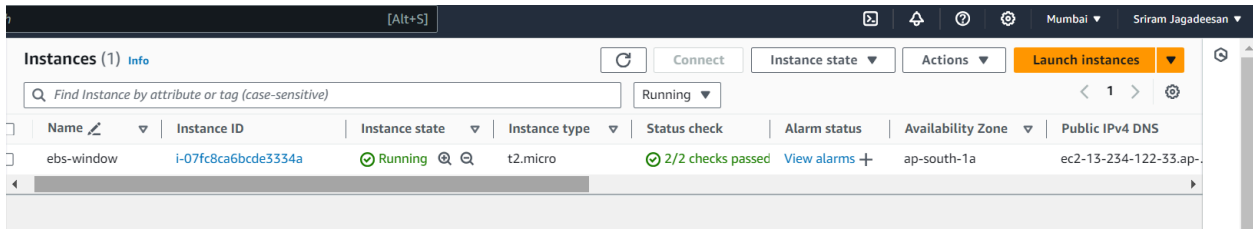
Create snapshot

< 1 >

Settings

<input type="checkbox"/>	Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status	Started
<input type="checkbox"/>	EBS-LINUX SN...	snap-07e99c94e9fa319c7	5 GIB	ebs -lin	Standard	Completed	2024/04/23 21:41 GMT+5:...

WINDOWS EC2 MACHINE



Instances (1) Info								
<input type="text" value="Find Instance by attribute or tag (case-sensitive)"/>								
<div>Running</div>								
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	
ebs-window	i-07fc8ca6bcdc3334a	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1a	ec2-13-234-122-33.ap-	

5GB OF EBS VOLUME

Create volume [Info](#)

Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.

Volume settings

Volume type [Info](#)

General Purpose SSD (gp3)

[i](#) General Purpose SSD gp3 is now the default selection. gp3 provides up to 20% lower cost per GB than gp2. [Learn More](#)

Size (GiB) [Info](#)

5

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

IOPS [Info](#)

3000

Min: 3000 IOPS, Max: 16000 IOPS. The value must be an integer.

Throughput (MiB/s) [Info](#)

125

Min: 125 MiB, Max: 1000 MiB. Baseline: 125 MiB/s.

Availability Zone [Info](#)

ap-south-1a

▼

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

Tags - *optional* [Info](#)

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key

Name

X

Value - *optional*

windows ebs

X

Remove

Add tag

You can add 49 more tags.

✔ Successfully created volume [vol-0788b8525967abe2b](#).

Volumes (2) Info											
<div> Search</div>											
<div> Actions ▼ Create volume</div>											
<div>< 1 > </div>											
<input type="checkbox"/>	Name ▼	Volume ID ▼	Type ▼	Size ▼	IOPS ▼	Throughput ▼	Snapshot ▼	Created ▼	Availability		
<input type="checkbox"/>	-	vol-04dc056adf1b97f8b	gp2	30 GiB	100	-	snap-0e7f315...	2024/04/23 21:47 GMT+5:...	ap-south-		
<input type="checkbox"/>	windows ebs	vol-0788b8525967abe2b	gp3	5 GiB	3000	125	-	2024/04/23 21:51 GMT+5:...	ap-south-		

<input checked="" type="checkbox"/>	windows ebs	vol-0788b8525967abe2b	gp3	5 GiB	3000	125	-	2024/04/23 21:51 GMT+5:...	a		
-------------------------------------	-------------	-----------------------	-----	-------	------	-----	---	----------------------------	---	--	--

Volume ID: vol-0788b8525967abe2b (windows ebs)

Details	Status checks	Monitoring	Tags
<div>Volume ID</div> <div> vol-0788b8525967abe2b (windows ebs)</div> <div>AWS Compute Optimizer finding</div> <div> Opt-in to AWS Compute Optimizer for recommendations. Learn more </div> <div>Encryption</div> <div>Not encrypted</div> <div>Fast snapshot restored</div> <div>No</div>	<div>Volume state</div> <div> Available</div>	<div>KMS key ID</div> <div>-</div> <div>Snapshot</div> <div>-</div>	<div>Type</div> <div>gp3</div> <div>IOPS</div> <div>3000</div> <div>KMS key alias</div> <div>-</div> <div>Availability Zone</div> <div>ap-south-1a</div> <div>Volume status</div> <div> Okay</div> <div>Throughput</div> <div>125</div> <div>KMS key ARN</div> <div>-</div> <div>Created</div> <div> Tue Apr 23 2024 21:51:22 GMT+0530 (India Standard Time)</div>



Recycle Bin



EC2
Feedback



EC2
Microso...

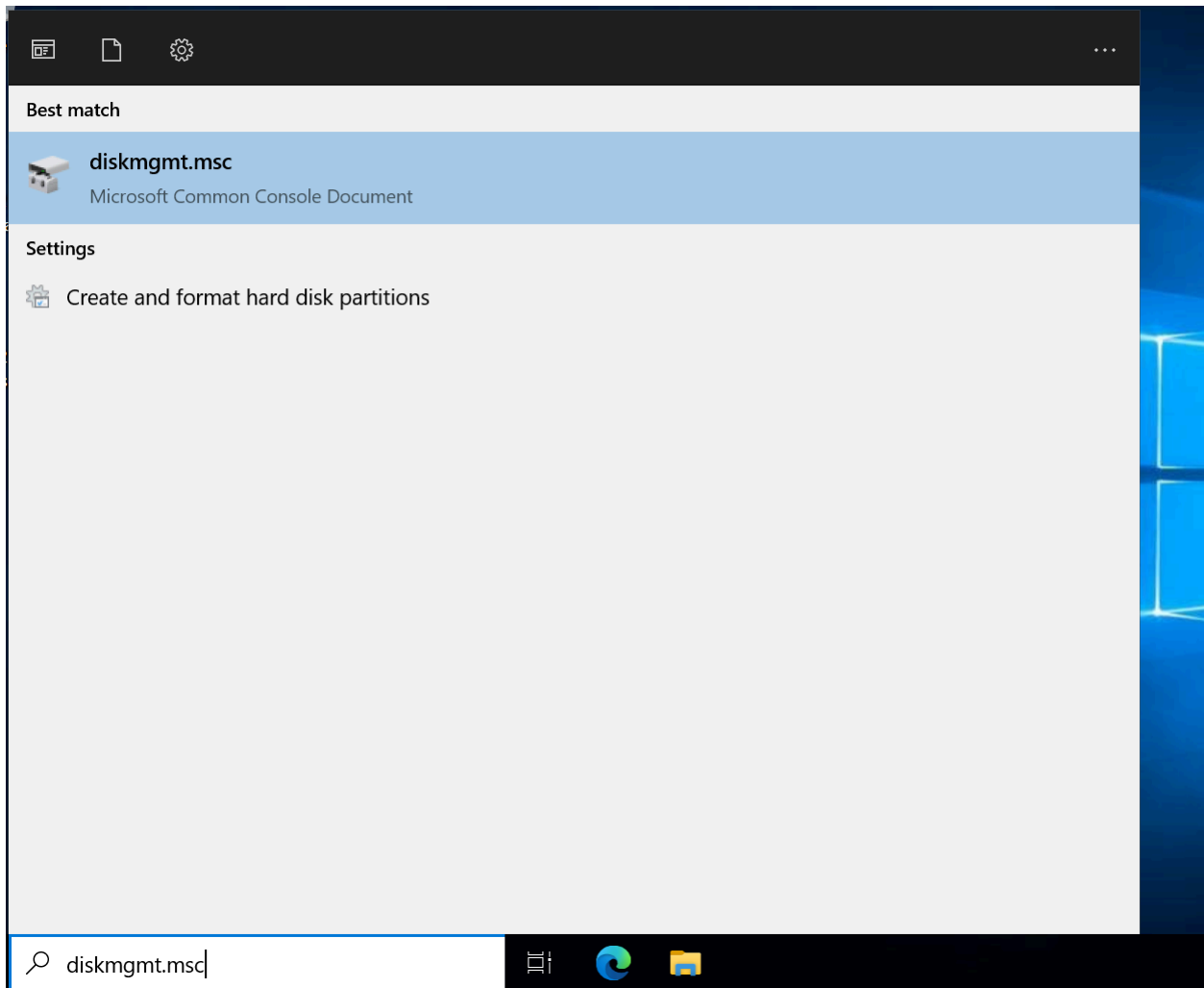
Hostname: EC2AMAZ-MSLNHBB
Instance ID: i-07fc8ca6bcde3334a
Private IPv4 address: 172.31.32.62
Public IPv4 address: 13.234.122.33
Instance size: t2.micro
Availability Zone: ap-south-1a
Architecture: AMD64
Total memory: 1024
Network: Low to Moderate

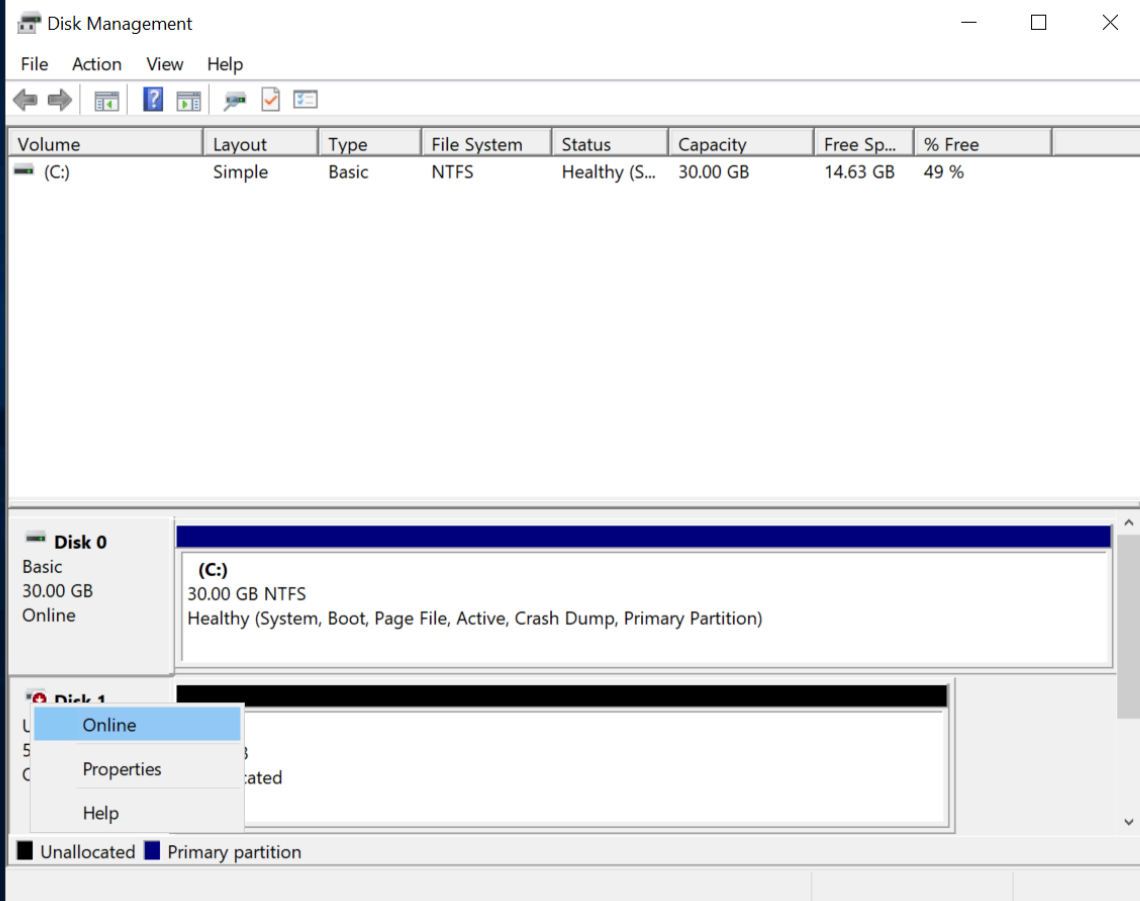


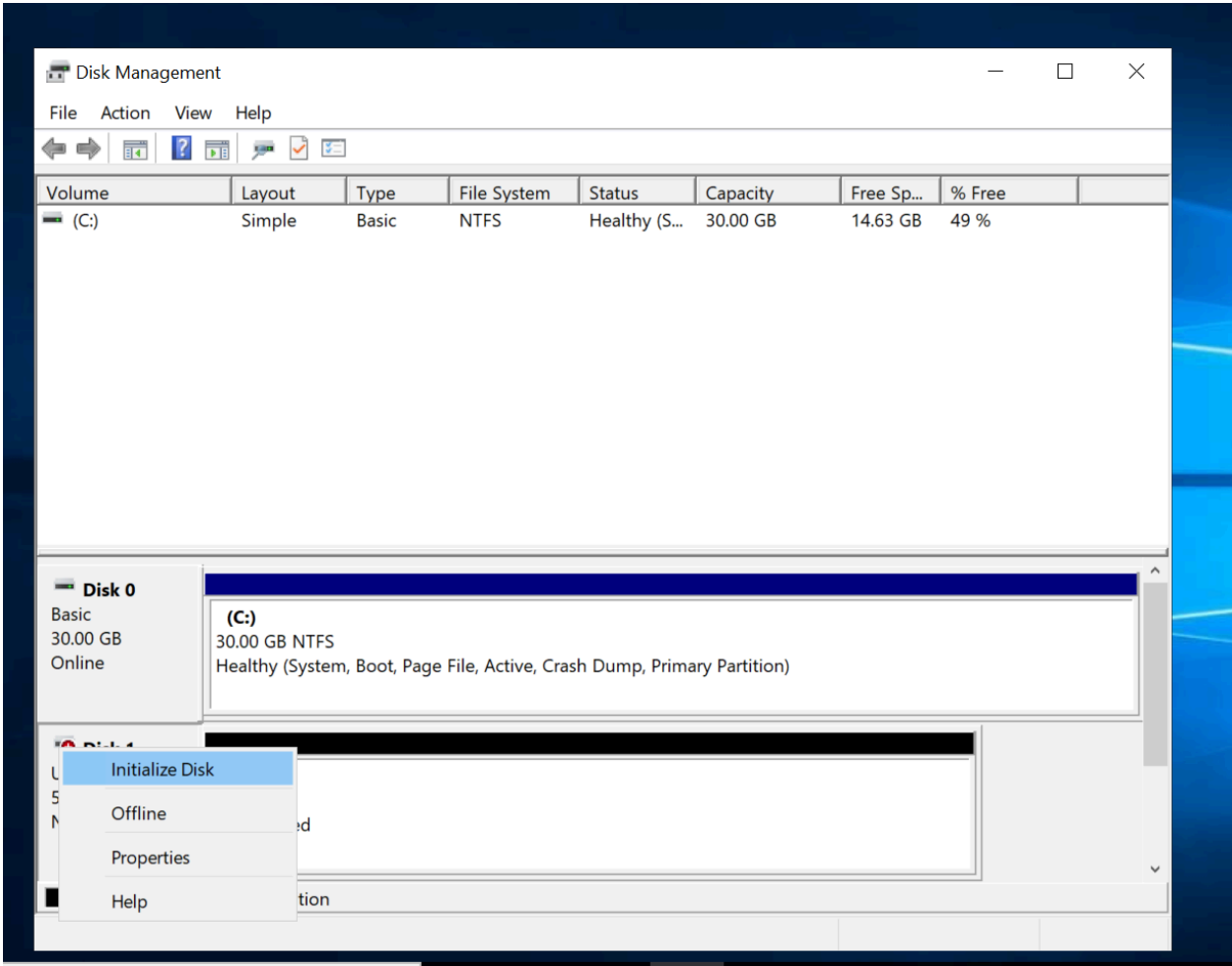
Type here to search

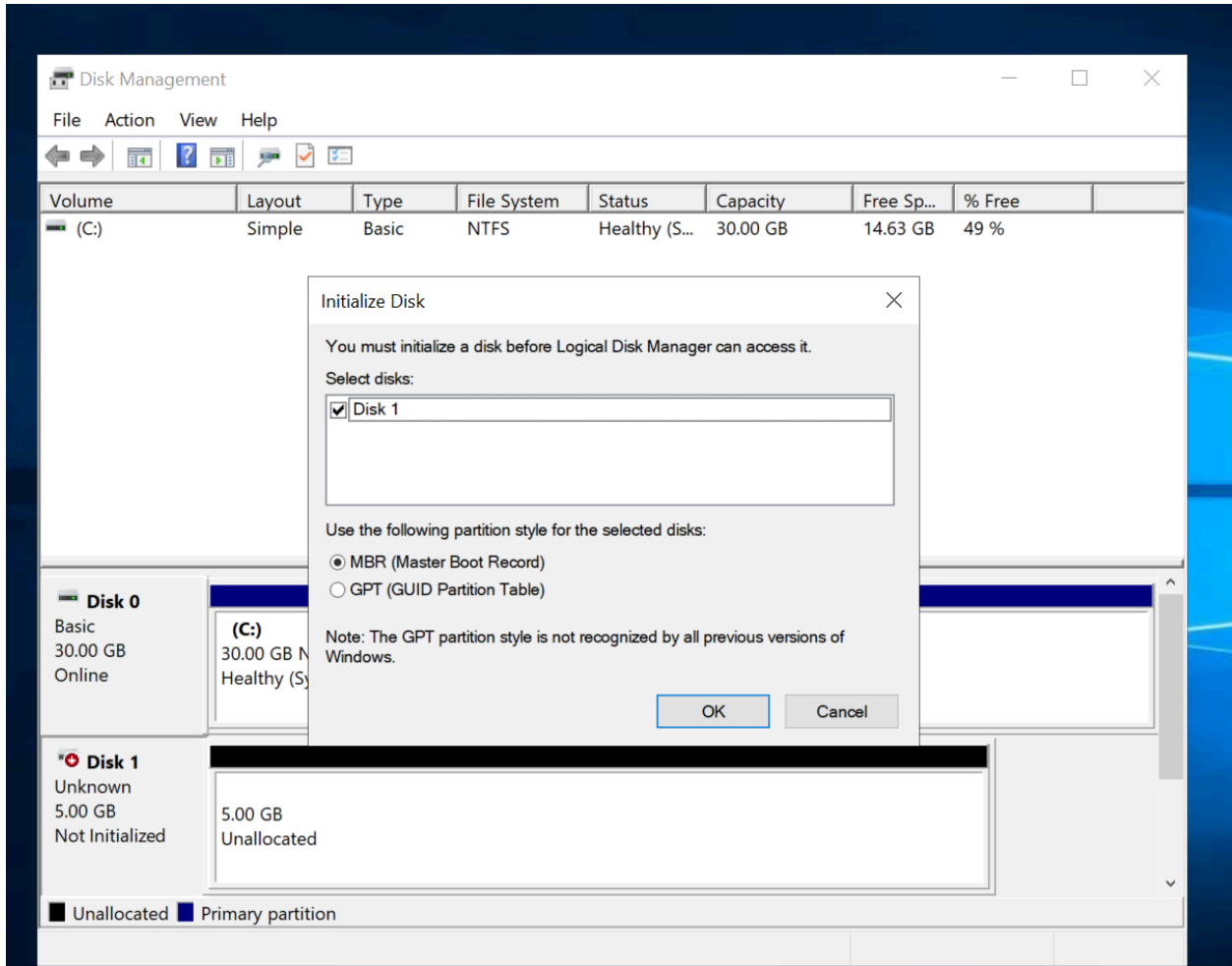


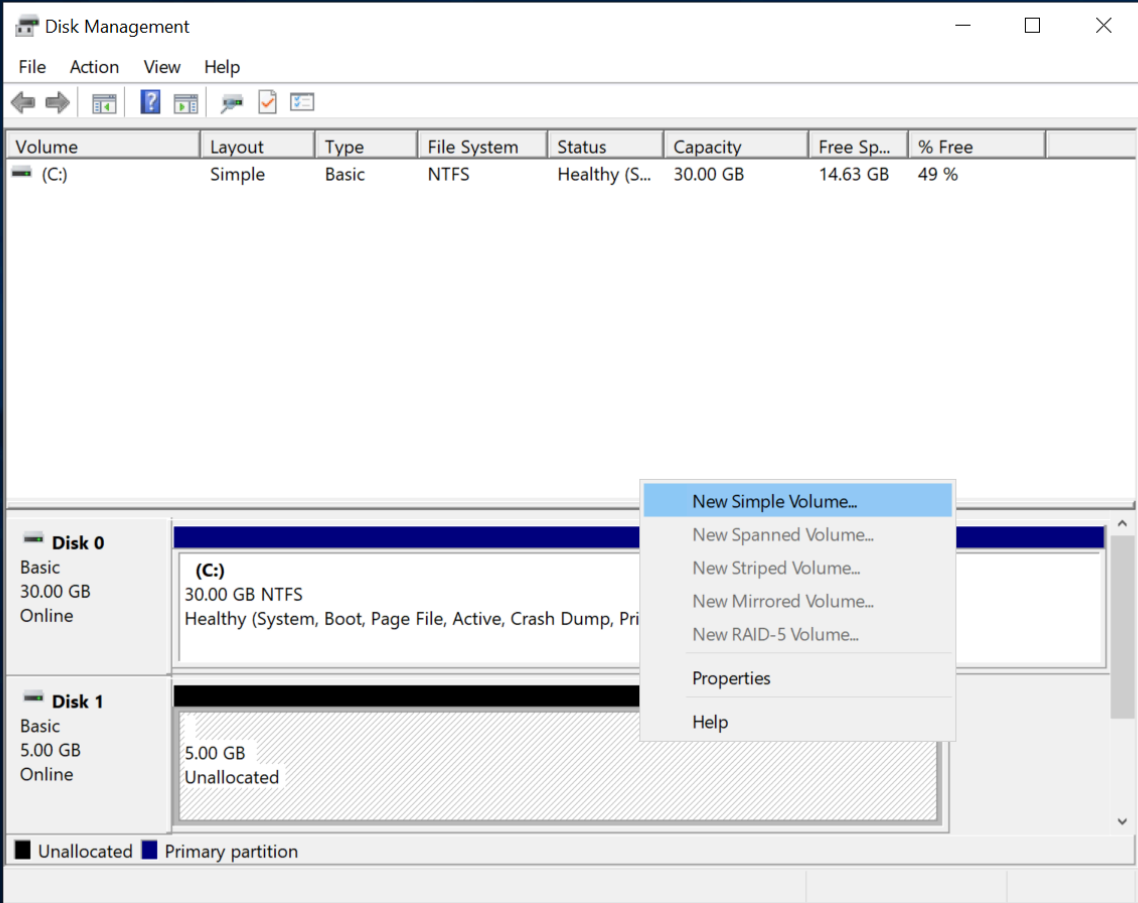
4:26 PM
4/23/2024

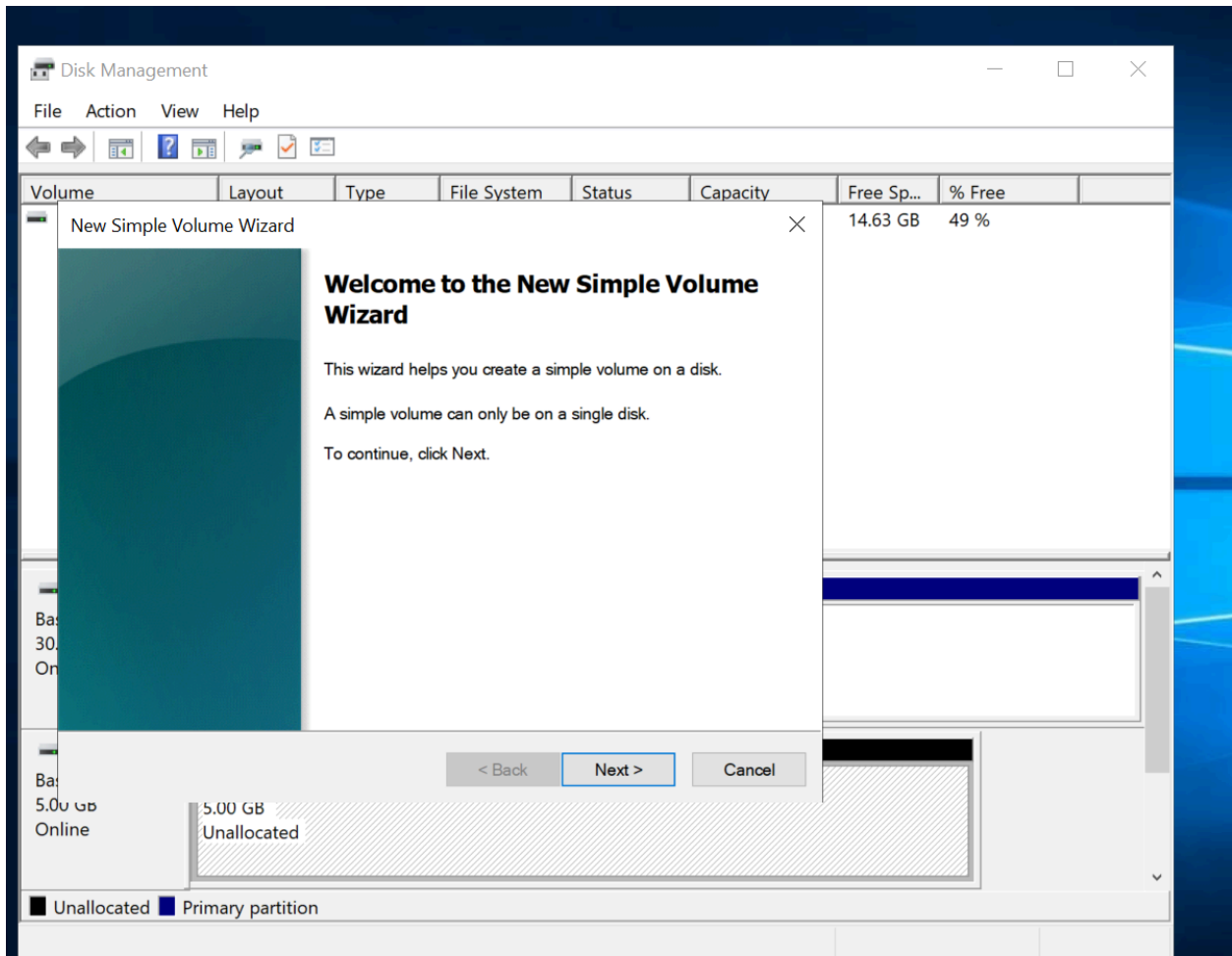


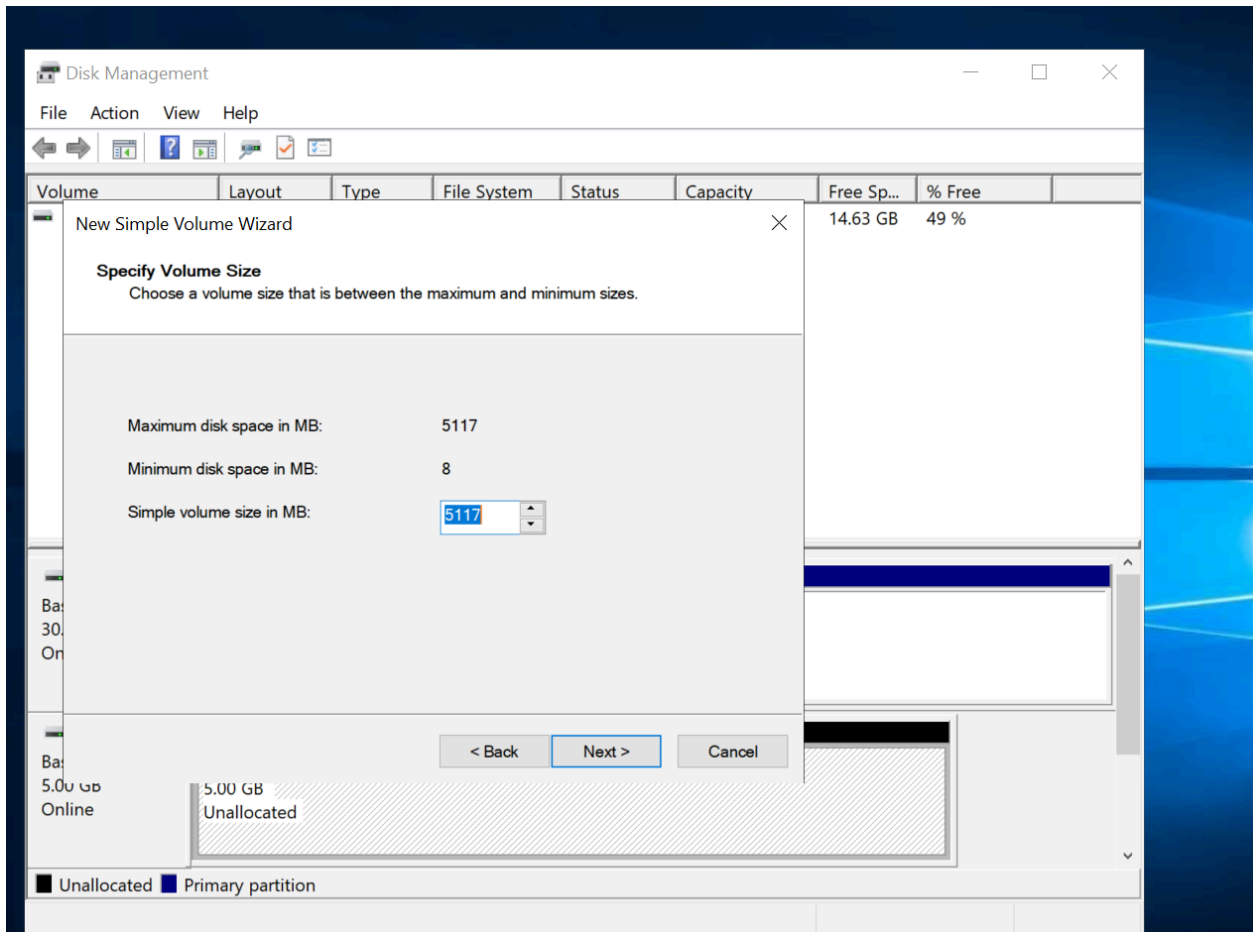


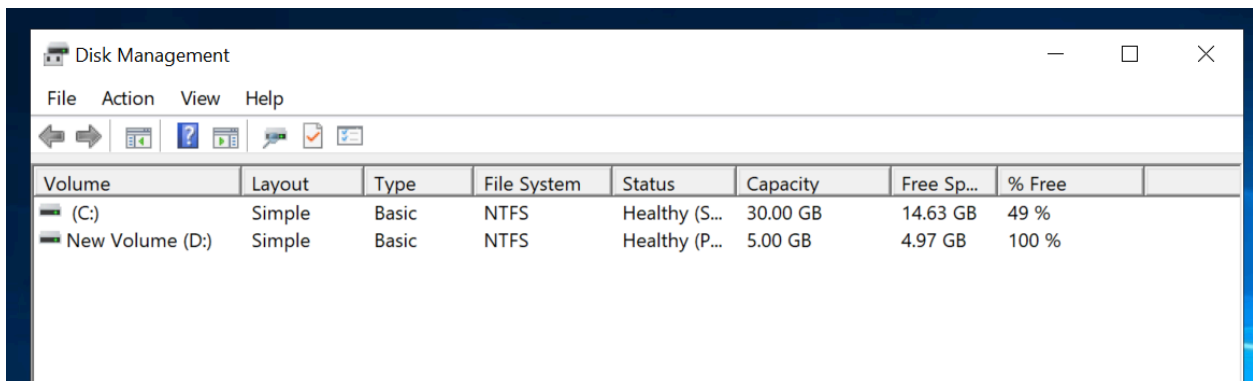
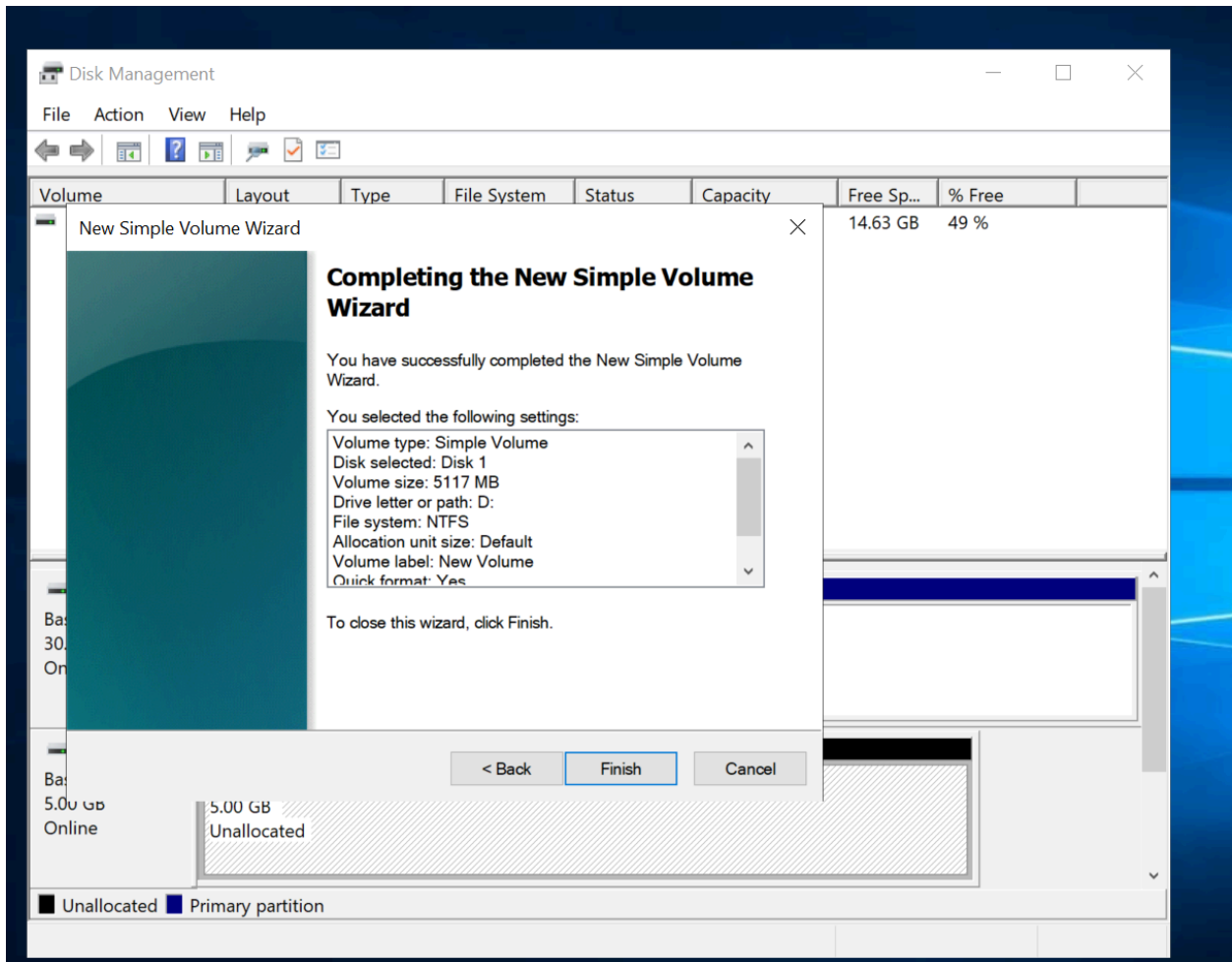












VOLUME CREATED ALONG WITH APACHE2 WEB SERVER USING WINDOWS

