

Windows Elastic Block Store

Windows instance, volume creation and attach, snapshot volume and instance

STEP 1 Create windows instance

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name

ebs windows [Add additional tags](#)

▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Q Search our full catalog including 1000s of application and OS images

Recents

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE L

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Microsoft Windows Server 2022 ...[read more](#)

ami-0f346136f3b372267

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which

Cancel

Launch instance

[Review commands](#)

CloudShell

Feedback

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▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

demo [Create new key pair](#)

For Windows instances, you use a key pair to decrypt the administrator password. You then use the decrypted password to connect to your instance.

▼ Network settings [Info](#)

VPC - required [Info](#)

vpc-07f48dec5a3f9030a (default)

172.31.0.0/16

Subnet [Info](#)

subnet-0ce8518b6b27e268e

VPC: vpc-07f48dec5a3f9030a Owner: 637423530978 Availability Zone: ap-south-1a IP addresses available: 4091 CIDR: 172.31.32.0/20

[Create new subnet](#)

Auto-assign public IP [Info](#)

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) [Info](#)

▼ Summary

Number of instances [Info](#)

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Software Image (AMI)

Microsoft Windows Server 2022 ...[read more](#)

ami-0f346136f3b372267

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Cancel

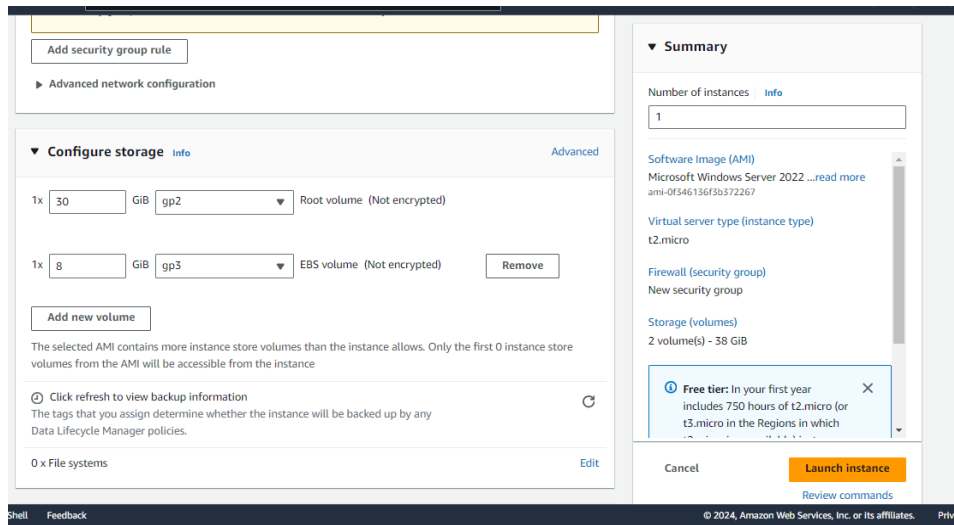
Launch instance

[Review commands](#)

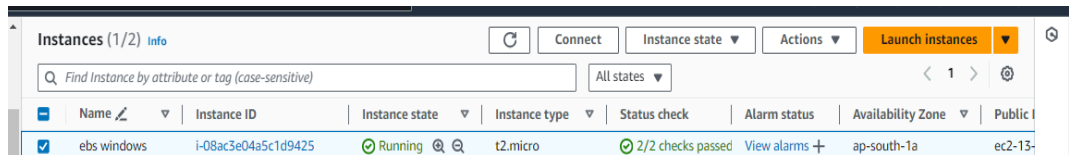
CloudShell

Feedback

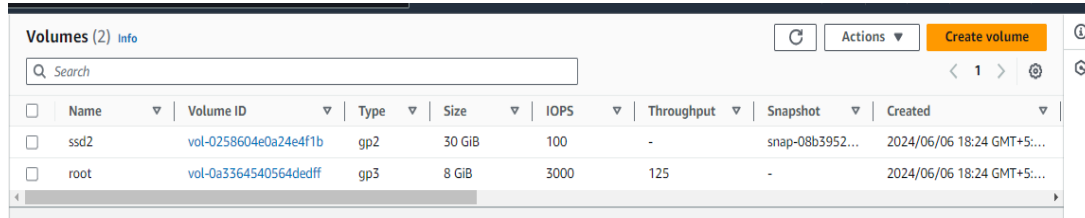
© 2024, Amazon Web Services, Inc. or its affiliates.



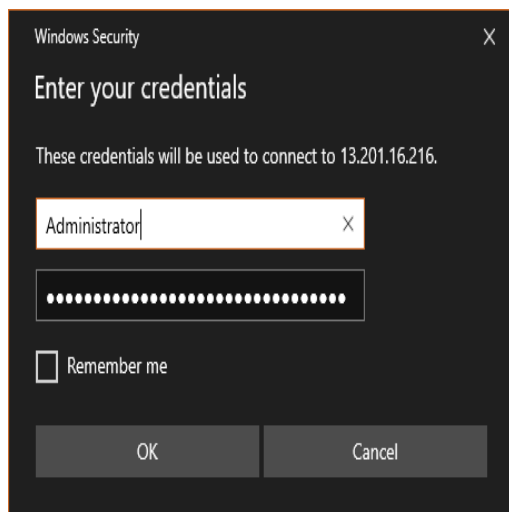
STEP 2 Windows instance have been created



STEP 3 Create a volume for instance



STEP 5 Connect to RDP



Inside AWS volume

STEP 6 Detach the secondary storage (SSD2)

The screenshot shows the AWS Management Console 'Volumes' page. A table lists two volumes: 'root' (gp3, 8 GiB) and 'ssd2' (gp2, 30 GiB). The 'ssd2' volume is selected. The 'Actions' dropdown menu is open, and 'Detach volume' is highlighted.

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
ssd2	vol-0258604e0a24e4f1b	gp2	30 GiB	100	-	snap-08b3...
root	vol-0a3364540564dedff	gp3	8 GiB	3000	125	-

The dialog box asks for confirmation to detach volume vol-0258604e0a24e4f1b. It includes a warning about potential charges and a 'Detach' button.

Detach vol-0258604e0a24e4f1b?

After you detach a volume, you might still be charged for volume storage. If you no longer need the volume, delete it to stop incurring charges.

Are you sure that you want to detach volume vol-0258604e0a24e4f1b?

Cancel **Detach**

The screenshot shows the AWS Management Console 'Volumes' page with a green banner indicating 'Successfully detached volume.' The 'ssd2' volume is now listed as 'vol-0a3364540564dedff'.

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
root	vol-0258604e0a24e4f1b	gp2	30 GiB	100	-	snap-08b3952...	2024/06/06 18:24 GMT+5:...
ssd2	vol-0a3364540564dedff	gp3	8 GiB	3000	125	-	2024/06/06 18:24 GMT+5:...

STEP 7 Attach the volume secondary storage (SSD2)

The screenshot shows the AWS Management Console 'Volumes' page. The 'ssd2' volume is selected. The 'Actions' dropdown menu is open, and 'Attach volume' is highlighted.

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
root	vol-0258604e0a24e4f1b	gp2	30 GiB	100	-	snap-08b3...
ssd2	vol-0a3364540564dedff	gp3	8 GiB	3000	125	-

EC2 > Volumes > vol-0a3364540564dedff > Attach volume

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-0a3364540564dedff (ssd2)

Availability Zone
ap-south-1a

Instance [Info](#)
i-08ac3e04a5c1d9425

Device name [Info](#)
xvdb

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

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

[Cancel](#) [Attach volume](#)

Successfully attached volume vol-0a3364540564dedff to instance i-08ac3e04a5c1d9425.

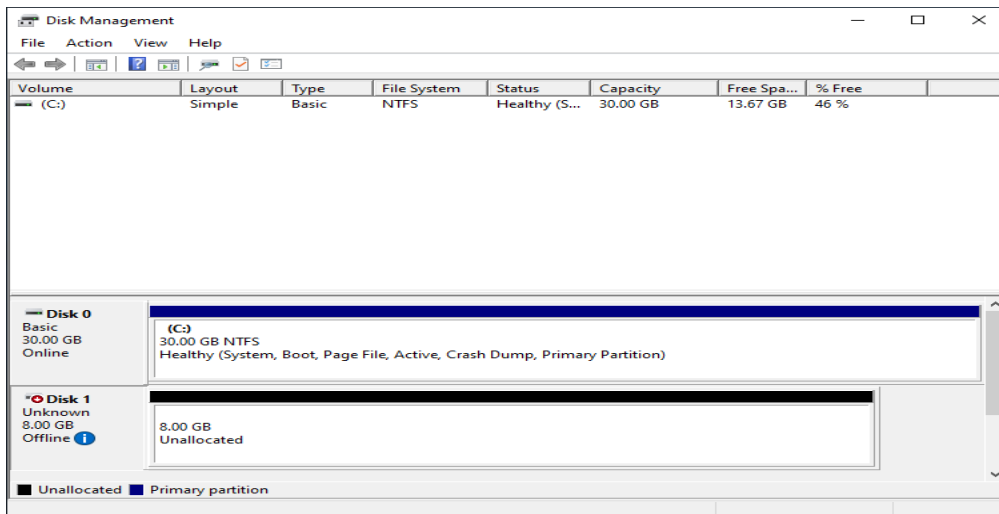
Volumes (2) [Info](#) [Refresh](#) [Actions](#) [Create volume](#)

Search

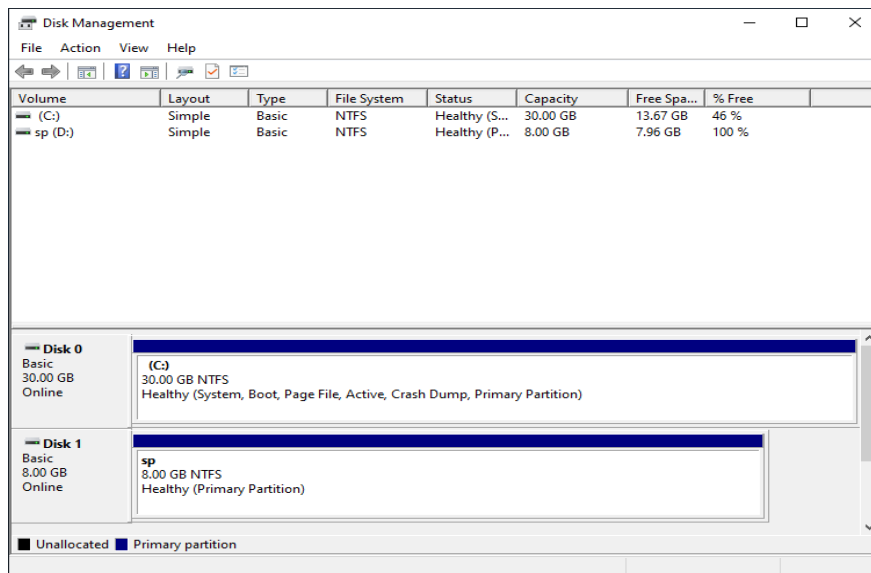
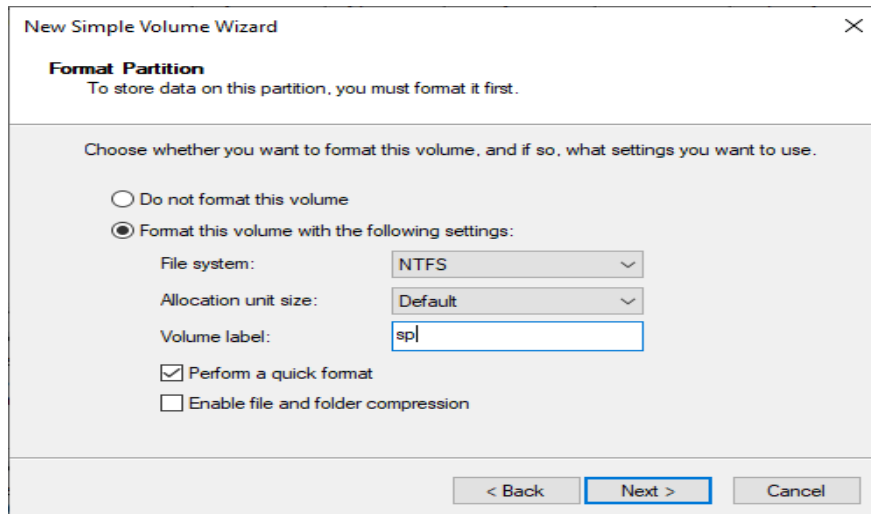
	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
<input type="checkbox"/>	root	vol-0258604e0a24e4f1b	gp2	30 GiB	100	-	snap-08b3952...	2024/06/06 18:24 GMT+5:...
<input type="checkbox"/>	ssd2	vol-0a3364540564dedff	gp3	8 GiB	3000	125	-	2024/06/06 18:24 GMT+5:...

Inside windows instance

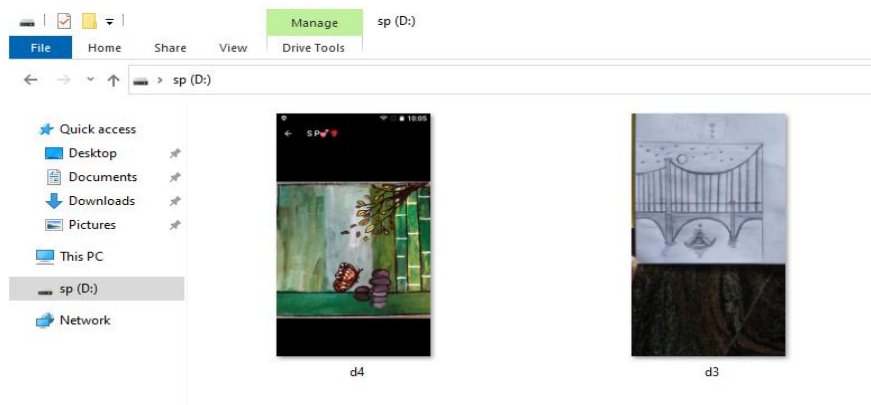
STEP 9 Open disk management



STEP 10 Select disk1 click online and initialize



STEP 11 Copy files and paste in ssd2 inside server



[Open AWS](#)

STEP 12 Open snapshot and create

The screenshot shows the 'Create snapshot' page in the AWS Management Console. The breadcrumb navigation is 'EC2 > Snapshots > Create snapshot'. The page title is 'Create snapshot' with an 'Info' link. Below the title is a descriptive paragraph: 'Create a point-in-time snapshot of an EBS volume and use it as a baseline for new volumes or for data backup. You can create snapshots from an individual volume, or you can create multi-volume snapshots from all of the volumes attached to an instance.'

The 'Snapshot settings' section contains two radio buttons under 'Resource type': 'Volume' (selected) and 'Instance'. The 'Volume ID' field is populated with 'vol-0a3364540564dedff'. The 'Description' field contains 'ssd2 bk'. The 'Encryption' status is 'Not encrypted'.

The screenshot shows the 'Snapshots (1/1)' page. A green notification banner at the top states 'Successfully created snapshot snap-0c7c7251a01476fdf'. The table below lists the snapshot:

	Name	Snapshot ID	Volume size	Description	Storage tier	Started	Progress
<input checked="" type="checkbox"/>	-	snap-0c7c7251a01476fdf	8 GiB	ssd2 bk	Standard	2024/06/06 18:55 GMT+5...	100%

STEP 13 Select the created snapshots, Actions->create volume from snapshots->create volume


The screenshot shows the 'Snapshots (1/1)' page with the 'Actions' menu open for the selected snapshot. The menu options are:

- 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-0c7c7251a01476fdf

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](#)

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




IOPS [Info](#)



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

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

Shell Feedback




STEP 14 Volume is created for snapshots (ssd2 1b)

Volumes (3) [Info](#)  Actions  Create volume 

< 1 >  

<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
<input type="checkbox"/>	root	vol-0258604e0a24e4f1b	gp2	30 GiB	100	-	snap-08b3952...	2024/06/06 18:24 GMT+5...
<input type="checkbox"/>	ssd2	vol-0a3364540564dedff	gp3	8 GiB	3000	125	-	2024/06/06 18:24 GMT+5...
<input type="checkbox"/>	ssd2 1b	vol-0160fe3a798fc9d47	gp3	8 GiB	3000	125	snap-0c7c725...	2024/06/06 19:04 GMT+5...

STEP 15 Attach the volume for snapshots (ssd2 1b)

Volumes (1/3) [Info](#)  Actions  Create volume 

☒

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
ssd2 1b	vol-0fdd841179b302754	gp3	8 GiB	3000	125	snap-0c7c725...
root	vol-0258604e0a24e4f1b	gp2	30 GiB	100	-	snap-08b3952...
ssd2	vol-0a3364540564dedff	gp3	8 GiB	3000	125	-

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

EC2 > Volumes > vol-0160fe3a798fc9d47 > Attach volume

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-0160fe3a798fc9d47 (ssd 1b)

Availability Zone
ap-south-1a

Instance [Info](#)
i-08ac3e04a5c1d9425

Device name [Info](#)
xvdc

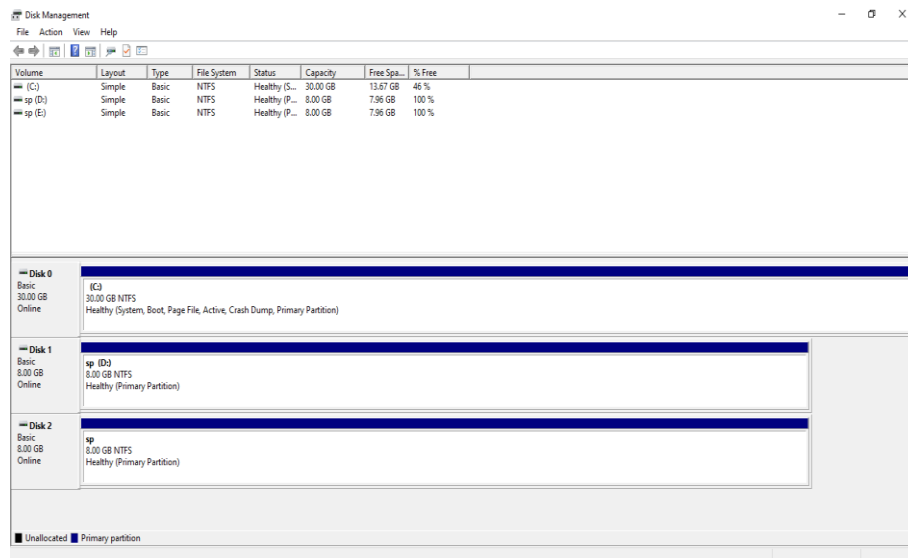
Only instances in the same Availability Zone as the selected volume are displayed.

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

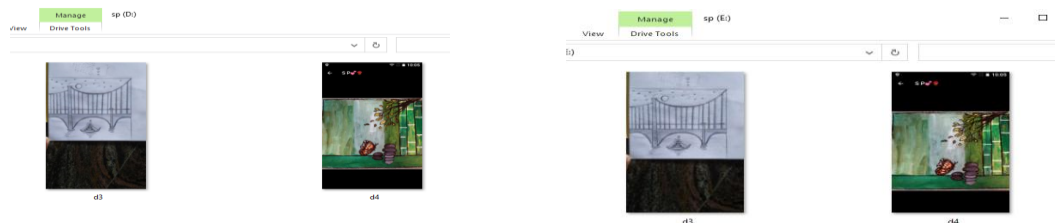
Cancel **Attach volume**

udShell Feedback

STEP 16 Inside the server, disk2 is created



STEP 17 Files in Disk1 have been copied to Disk2 using snapshots method



Snapshots for instance

STEP 18 create a snapshot for instance

EC2 > Snapshots > Create snapshot

Create snapshot [Info](#)

Create a point-in-time snapshot of an EBS volume and use it as a baseline for new volumes or for data backup. You can create snapshots from an individual volume, or you can create multi-volume snapshots from all of the volumes attached to an instance.

Snapshot settings

Resource type [Info](#)

☐ Volume

Create a snapshot from a specific volume.

☒ Instance

Create multi-volume snapshots from an instance.

Instance ID

The instance from which to create multi-volume snapshots.

i-08ac3e04a5c1d9425

Description

Add a description for your snapshot.

ebs win bk

255 characters maximum

udShell

Feedback

Successfully created snapshots: snap-0e14d52e831cdd2da, snap-01ed525a32861f6b9, snap-058b442ae518a275d.

Snapshots (4) [Info](#)

Owned by me

Search

Recycle Bin

Actions

Create snapshot

< 1 >

<input type="checkbox"/>	Name	Snapshot ID	Volume size	Description	Storage tier		Started		Prog
<input type="checkbox"/>	-	snap-058b442ae518a275d	8 GiB	ebs win bk	Standard		Pe 2024/06/06 19:14 GMT+5...		U
<input type="checkbox"/>	-	snap-0c7c7251a01476fdf	8 GiB	ssd2 bk	Standard		Cc 2024/06/06 18:55 GMT+5...		A
<input type="checkbox"/>	-	snap-0e14d52e831cdd2da	8 GiB	ebs win bk	Standard		Pe 2024/06/06 19:14 GMT+5...		U
<input type="checkbox"/>	-	snap-01ed525a32861f6b9	30 GiB	ebs win bk	Standard		Pe 2024/06/06 19:14 GMT+5...		U

STEP 19 Attach the volume for Snapshot instance created

EC2 > Volumes > vol-ObeOf6039033728a9 > Attach volume

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-ObeOf6039033728a9

Availability Zone

ap-south-1a

Instance [Info](#)

i-08ac3e04a5c1d9425

Device name [Info](#)

xvdf

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

Cancel

Attach volume

udShell

Feedback

Successfully attached volume vol-0be0f6039033728a9 to instance i-08ac3e04a5c1d9425.

Volumes (4) Info

Search

	Name	Volume ID	Type	Size	Throughput	Availability Zone	Volume state
<input type="checkbox"/>	root	vol-0258604e0a24e4f1b	gp2	30 GiB	1...	ap-south-1a	In-use
<input type="checkbox"/>	ssd2	vol-0a3364540564dedff	gp3	8 GiB	3... 125	ap-south-1a	In-use
<input type="checkbox"/>	ssd2 1b	vol-0160fe3a798fc9d47	gp3	8 GiB	3... 125	ap-south-1a	In-use
<input type="checkbox"/>	-	vol-0be0f6039033728a9	gp3	8 GiB	3... 125	ap-south-1a	In-use

Step 20 Open disk management inside server

Disk Management

File Action View Help

Volume	Layout	Type	File System	Status	Capacity	Free Space	% Free
(C:)	Simple	Basic	NTFS	Healthy (S...)	30.00 GB	13.67 GB	46 %
sp (D:)	Simple	Basic	NTFS	Healthy (P...)	8.00 GB	7.96 GB	100 %
sp (E:)	Simple	Basic	NTFS	Healthy (P...)	8.00 GB	7.96 GB	100 %
sp (F:)	Simple	Basic	NTFS	Healthy (P...)	8.00 GB	7.96 GB	100 %

Disk 1: Basic, 8.00 GB, Online. sp (D:) 8.00 GB NTFS, Healthy (Primary Partition).

Disk 2: Basic, 8.00 GB, Online. sp (E:) 8.00 GB NTFS, Healthy (Primary Partition).

Disk 3: Basic, 8.00 GB, Online. sp (F:) 8.00 GB NTFS, Healthy (Primary Partition).

Unallocated Primary partition

Step 21 files in the instance have been copied

File Home Share View

sp (F:)

Quick access: Desktop, Documents, Downloads, Pictures

This PC

sp (D:)

sp (E:)

sp (F:)

Network

d3

d4

Step 22 After completing the task terminate the instance

Successfully terminated i-08ac3e04a5c1d9425

Instances (1/2) Info

Find Instance by attribute or tag (case-sensitive)

All states

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public I
<input checked="" type="checkbox"/>	ebs windows	i-08ac3e04a5c1d9425	Terminated	t2.micro	2/2 checks passed	View alarms	ap-south-1a	-

