

Restoring an Amazon EBS Volume from a Snapshot

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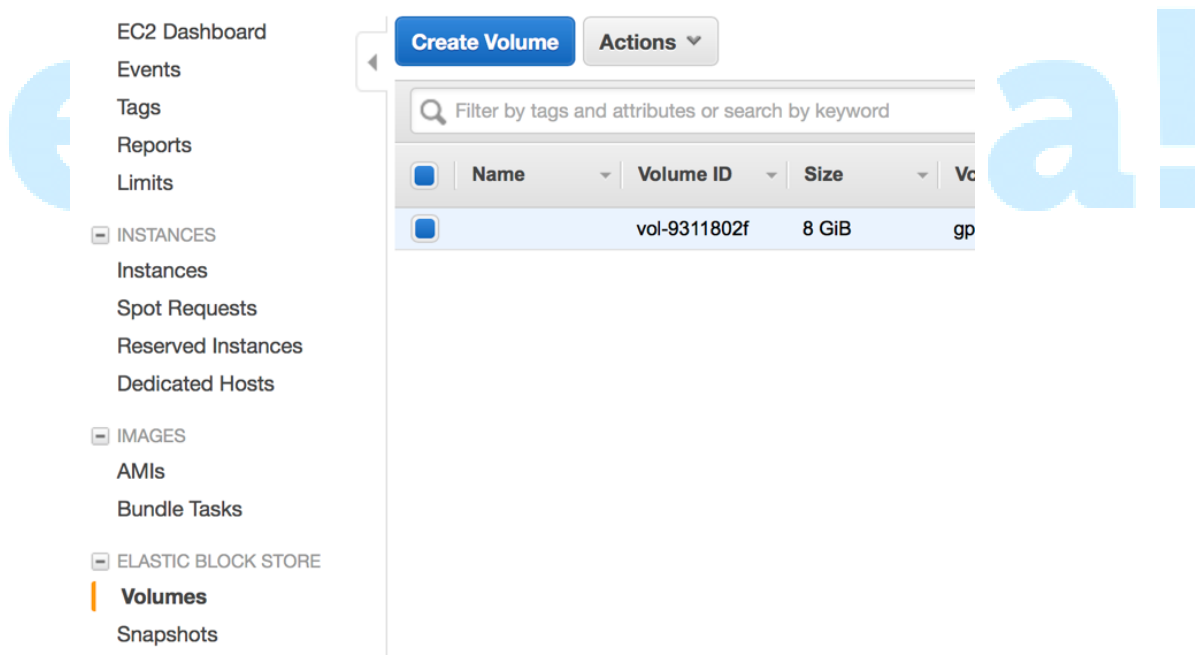
Overview

You can restore an Amazon EBS volume with data from a snapshot stored in Amazon S3. You need to know the ID of the snapshot you wish to restore your volume from and you need to have access permissions for the snapshot.

New volumes created from existing EBS snapshots load lazily in the background. This means that after a volume is created from a snapshot, there is no need to wait for all of the data to transfer from Amazon S3 to your EBS volume before your attached instance can start accessing the volume and all its data. If your instance accesses data that hasn't yet been loaded, the volume immediately downloads the requested data from Amazon S3, and continues loading the rest of the data in the background.

To restore an EBS volume from a snapshot using the console

1. In the navigation pane, choose **Volumes**, Create **Volume**.



2. In the **Create Volume** dialog box, for **Volume Type**, choose **General Purpose SSD**, **Provisioned IOPS SSD**, or **Magnetic**.
3. For **Size**, enter the size of the volume in GiB, or verify the that the default size of the snapshot is adequate.
4. For io1 volumes, in the **IOPS** field, enter the maximum number of input/output operations per second (IOPS) that the volume can support.

5. In the **Availability Zone** list, select the Availability Zone in which to create the volume. EBS volumes can only be attached to EC2 instances within the same Availability Zone.
6. For **Snapshot**, start typing the ID or description of the snapshot from which you are restoring the volume, and select it from the list of suggested options.
7. Choose **Create**.

Create Volume

Volume Type

General Purpose SSD (GP2)

Size (GiB)

10

(Min: 8 GiB, Max: 16384 GiB)

IOPS

100 / 3000

(Baseline of 100 IOPS per GiB)

Throughput (MB/s)

Not Applicable

Availability Zone

us-west-1b

Snapshot ID

snap-91978fb3

Encryption

Not Encrypted

Cancel

Create

→ This will initiate the process of volume creation.

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status	Attachment Information	Monitoring	Volume Status	Encrypted	KMS Key ID
	vol-90c05d2c	10 GiB	gp2	100 / 3000	snap-91978fb3	July 29, 2016 at 10:...	us-west-1b	creating	None			OK	Not Encrypted	

→ Finally, this volume becomes available and can be attached to any of the instances.

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	vol-90c05d2c	10 GiB	gp2	100 / 3000	snap-91978fb3	July 29, 2016 at 10:...	us-west-1b	available	None			OK	Not Encrypted	