

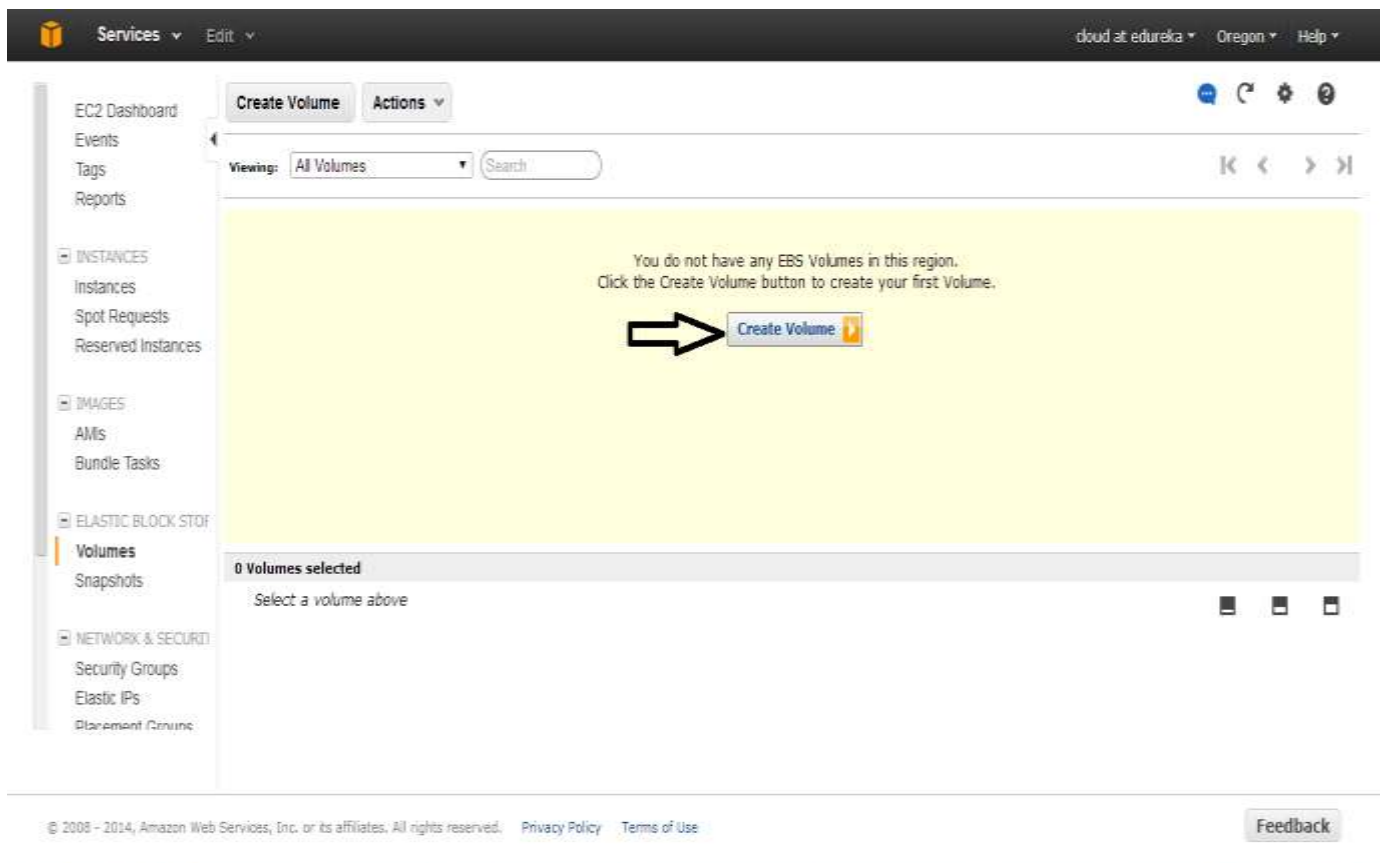
# How to Create or Delete an Amazon EBS Volume

The Amazon Elastic Block Store (Amazon EBS) offers persistent storage for Amazon EC2 instances. Amazon EBS volumes provide a scalable storage service, which persists independently of the instance life. An EBS volume is cheaper and scalable.

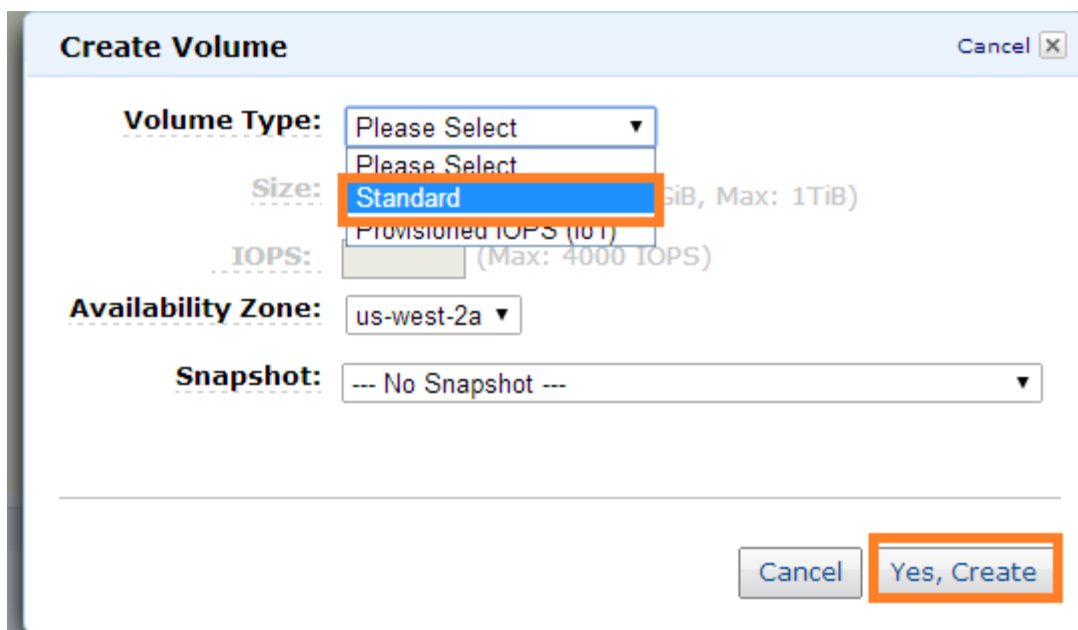
1. Go to the AWS console through the URL <http://aws.amazon.com/console>. Select the EC2 service. From the EC2 dashboard, select EBS Volumes or Volumes.

The screenshot displays the AWS Management Console interface. On the left sidebar, under the 'ELASTIC BLOCK STORE' category, the 'Volumes' link is highlighted with an orange rectangular box. The main content area shows the 'Resources' section for the US West (Oregon) region, listing counts for various services: 0 Running Instances, 0 Elastic IPs, 0 Snapshots, 0 Volumes, 19 Key Pairs, 0 Load Balancers, 0 Placement Groups, and 15 Security Groups. Below this is a 'Create Instance' section with a 'Launch Instance' button. The bottom section shows 'Service Health' for the US West (Oregon) region, indicating that the service is operating normally. The right sidebar contains 'Account Attributes' and 'Additional Information' links.

2. The EBS Volumes dashboard lists all the volumes available in that region. Click on “Create Volume”.



3. In the Create Volume dialog, select the volume types. AWS provides two types of volumes. A standard EBS volume generally provides about 100 IOPS on an average. However, in comparison AWS offers a new type of volume called Provisioned IOPS, which provides for a performance of up to 2000 IOPS.



4. For the standard volume, provide the value for the volume size and select the availability zone and snapshot. The availability zone is very important as a volume can be attached to only an instance in the same availability zone. Click on “Yes, Create”.

**Create Volume** Cancel

**Volume Type:** Standard

**Size:** 10 GiB (Min: 1 GiB, Max: 1TiB)

**IOPS:** (Max: 4000 IOPS)

**Availability Zone:** us-west-2a

**Snapshot:** --- No Snapshot ---

A volume type must be selected.

Cancel Yes, Create

5. The volume will be created and available in the EBS dashboard. Since it has not been assigned to any instance it will be in the “available” state.

Name	Volume ID	Capacity	Volume Type	Snapshot	Created	Zone	State	Alarm Status	Attachment Information
empty	vol-e6382fe9	10 GiB	standard	--	2014-03-05T10:02:33	us-west-2a	available	none	

6. Select “Provisioned IOPS” in step#3, if the user wants to create a provisioned IOPS volume. Provide the value for IOPS, the size (GB) and select the availability zone. Click on “Yes, Create”.

**Create Volume** Cancel

**Volume Type:** Provisioned IOPS (io1)

**Size:** 500 GiB (Min: 1 GiB, Max: 1TiB)

**IOPS:** 800 (Max: 4000 IOPS)

**Availability Zone:** us-west-2a

**Snapshot:** --- No Snapshot ---

Cancel Yes, Create

7. The resultant volume type will be io1. It will display the IOPS in brackets.

empty	vol-e382fe9	10 GiB	standard	--	2014-03-05T10:02:33	us-west-2a	available	none	
empty	vol-3d26313f	500 GiB	io1 (800)	--	2014-03-05T10:12:30	us-west-2a	available	none	

8. To delete a volume, select the volume and right click..Select "Delete Volume".

**Create Volume** **Actions**

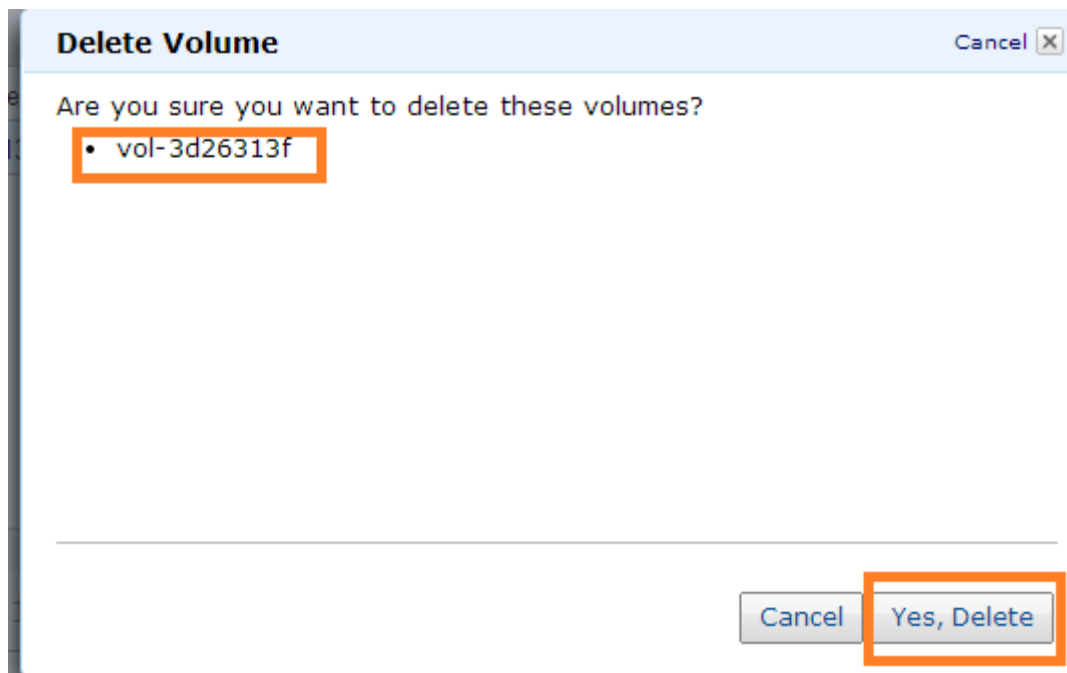
Viewings: All Volumes

Delete Volume  
Attach Volume  
Detach Volume  
Force Detach  
Create Snapshot  
Change Auto-Enable IO Setting

Name	Vol	Type	Snapshot	Created	Zone	State	Alarm Status	Attachment Information
empty		ard	--	2014-03-05T10:02:33	us-west-2a	available	none	
empty		00)	--	2014-03-05T10:12:30	us-west-2a	available	none	

1 to 2 of 2 Items

9. AWS will confirm before deleting the volume. Click on "Yes, Delete".



10. The volume has been deleted, now it looks like as below.

Name	Volume ID	Capacity	Volume Type	Snapshot	Created	Zone	State	Alarm Status	Attachment Information
empty	vol-e0382fe9	10 GiB	standard	—	2014-03-05T10:02:33	us-west-2a	available	none	