

Module-2: EC2 and EBS Assignment - 2

You have been asked to:

1. Launch a Linux EC2 instance
2. Create a EBS volume with 20 GB of storage and attach it the created EC2 instance
3. Resize the attached volume and make sure it reflects in the connected instance

Using this already created instance of assignment 1 for assignment 2.

The screenshot displays the AWS Management Console interface for the 'us-east-1' region. The left sidebar shows navigation options like 'EC2 Dashboard', 'Instances', 'Images', 'Elastic Block Store', and 'Network & Security'. The main content area shows a list of instances with one instance, 'assignment-1', selected. Below the list, the 'Details' tab for instance 'i-00752676e14162732' is open, showing various attributes such as Instance ID, IP addresses, Hostname type, and VPC ID.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
assignment-1	i-00752676e14162732	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-44-204-155-240.co...	44.204.155.240	-

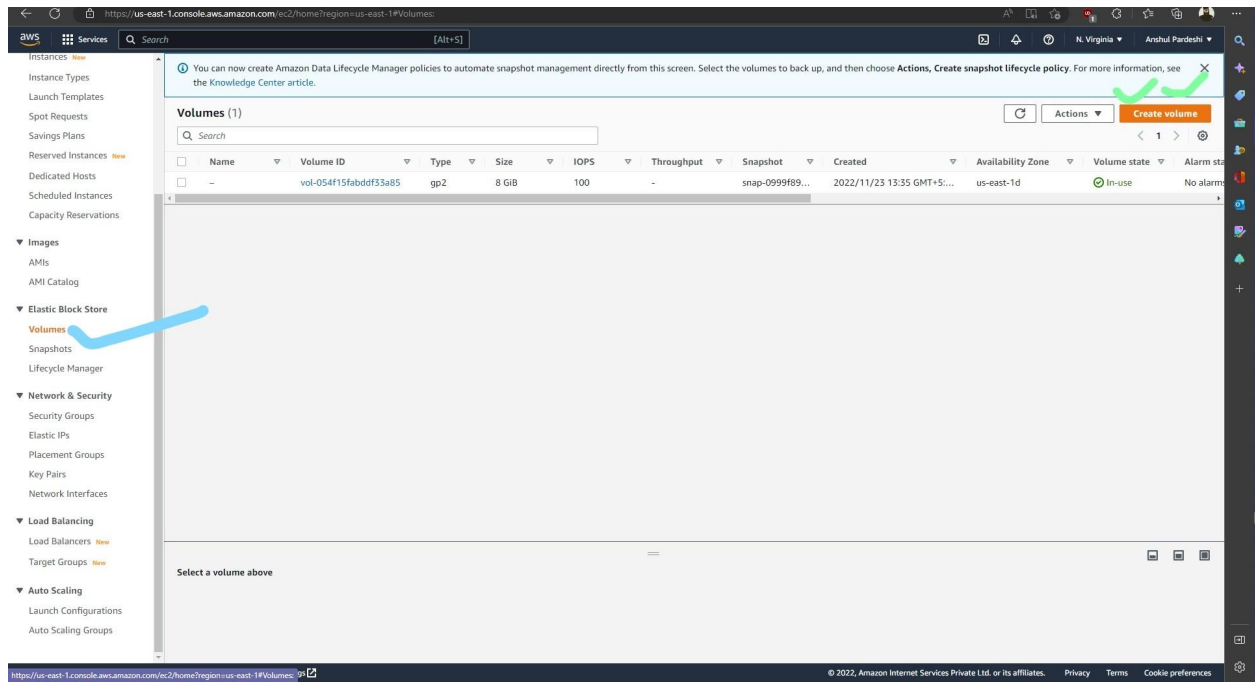
Instance: i-00752676e14162732 (assignment-1)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

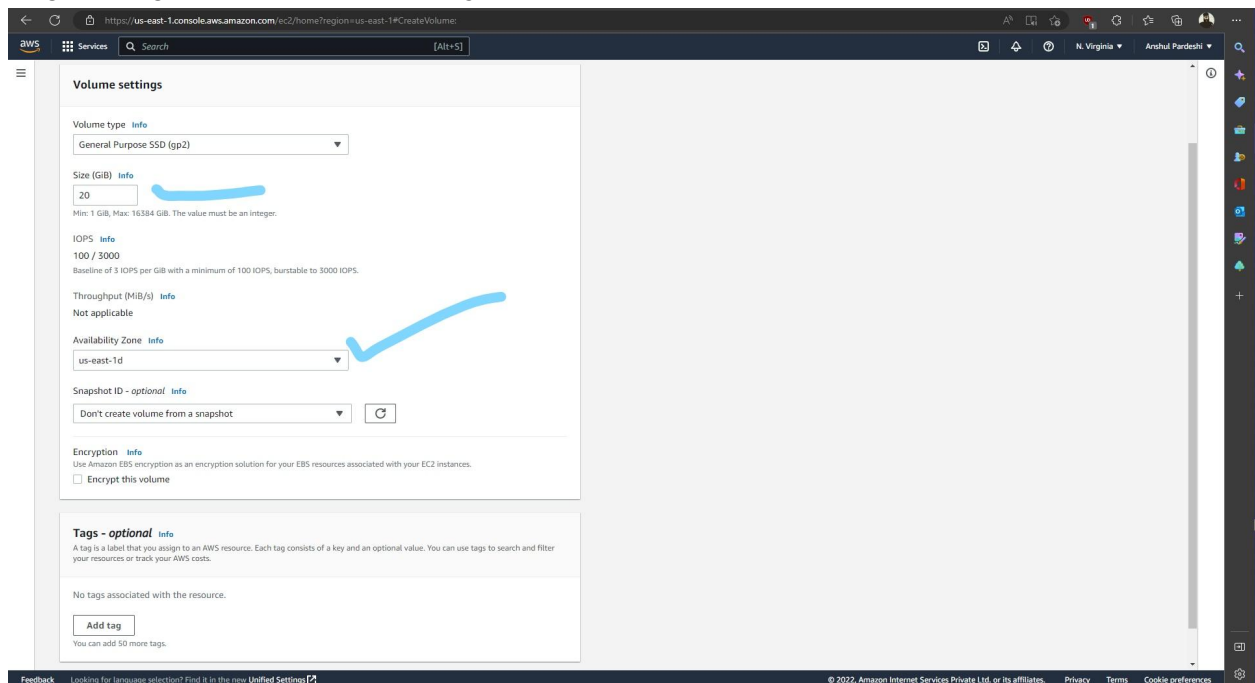
Instance summary [Info](#)

Instance ID i-00752676e14162732 (assignment-1)	Public IPv4 address 44.204.155.240 open address	Private IPv4 addresses 172.31.94.172
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-44-204-155-240.compute-1.amazonaws.com open address
Hostname type IP name: ip-172-31-94-172.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-94-172.ec2.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address 44.204.155.240 [Public IP]	VPC ID vpc-0e42b04dc524de2b	Auto Scaling Group name
IAM Role	Subnet ID	

Creating a volume of EBS



20 gb storage and same availability zone as that of instance.



Selecting and attaching volume to that instance.

Successfully created volume vol-0ebf316efa7d1955e.

You can now create Amazon Data Lifecycle Manager policies to automate snapshot management directly from this screen. Select the volumes to back up, and then choose **Actions, Create snapshot lifecycle policy**. For more information, see the Knowledge Center article.

Volumes (1/2)

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
-	vol-054f15fabdd33a85	gp2	8 GiB	100	-	snap-0999f89...	2022/11/23 13:35 GMT+5:
-	vol-0ebf316efa7d1955e	gp2	20 GiB	100	-	-	2022/11/23 14:42 GMT+5:

Actions

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

Volume ID: vol-0ebf316efa7d1955e

Details | Status checks | Monitoring | Tags

Details

20 GB ADDITIONAL VOLUME CAN BE SEEN IN STORAGE OF THE INSTANCE

Instance summary for i-00752676e14162732 (assignment-1)

Updated less than a minute ago

Instance ID i-00752676e14162732 (assignment-1)

Public IPv4 address 44.204.155.240 | [open address](#)

Private IPv4 addresses 172.31.94.172

Instance state Running

Public IPv4 DNS ec2-44-204-155-240.compute-1.amazonaws.com | [open address](#)

IPV6 address -

Private IP DNS name (IPv4 only) ip-172-31-94-172.ec2.internal

Elastic IP addresses -

Hostname type ec2.internal

Private IP DNS name (IPv4 only) ip-172-31-94-172.ec2.internal

Instance type t2.micro

IP name: ip-172-31-94-172.ec2.internal

VPC ID vpc-0e42b04dc524de2h | [open address](#)

Auto-assigned IP address 44.204.155.240 [Public IP]

Subnet ID subnet-096a919edc6a9c8ed | [open address](#)

IAM Role -

Auto Scaling Group name -

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

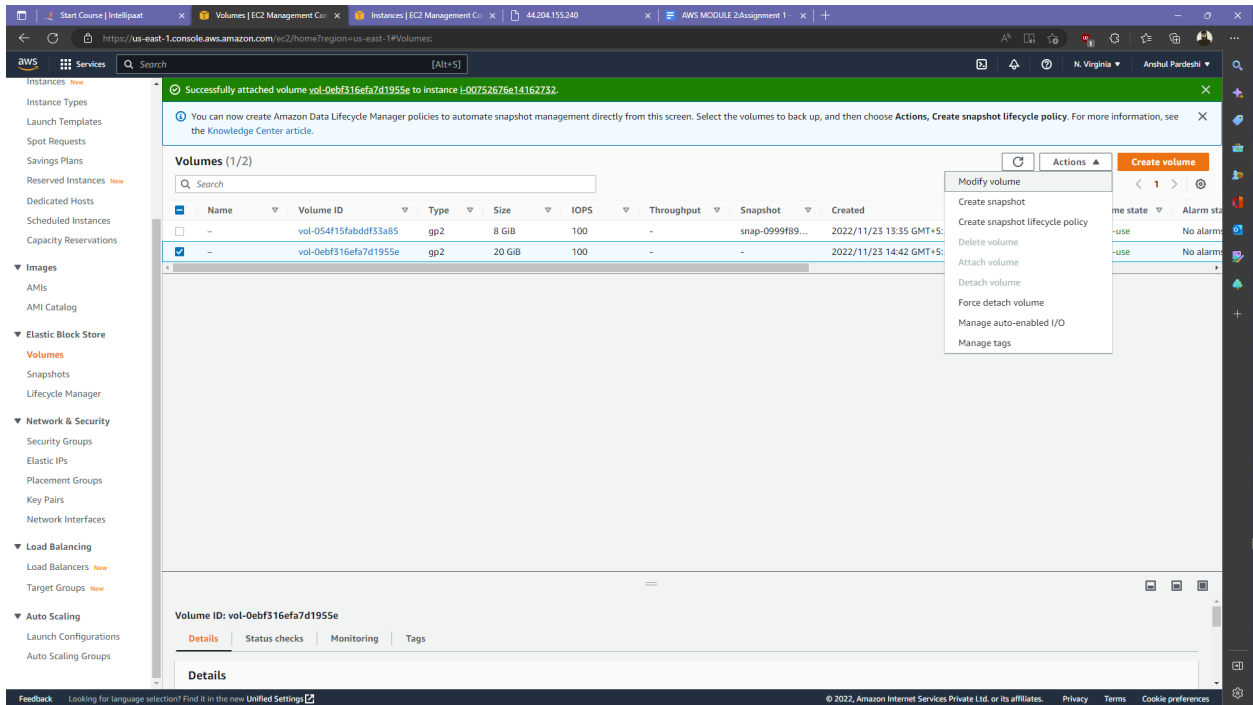
Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID	Delete on termination
vol-054f15fabdd33a85	/dev/sda1	8	Attached	Wed Nov 23 2022 13:35:38 ...	No	-	Yes
vol-0ebf316efa7d1955e	/dev/sdf	20	Attached	Wed Nov 23 2022 14:43:36 ...	No	-	No

Recent root volume replacement tasks

Task ID	Task state	Start time	Completion time	Tags
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[Replace root volume](#)

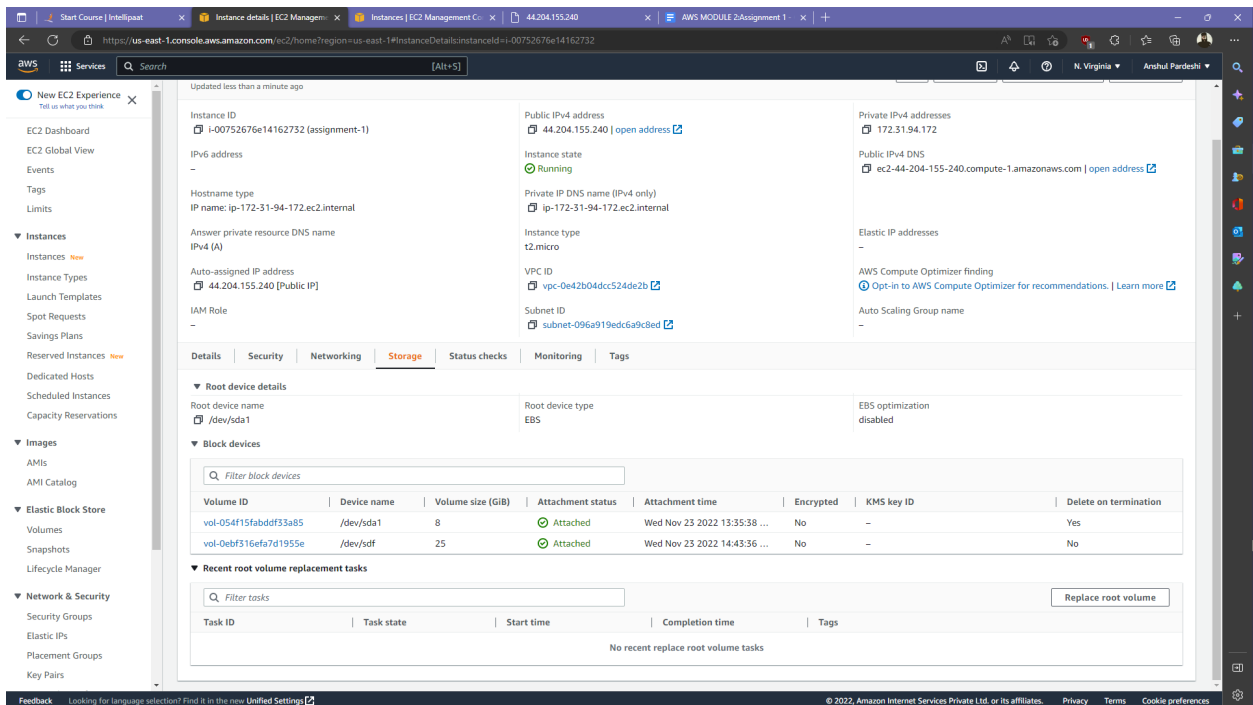
Modifying volume by selecting that volume then through actions drop down menu



The screenshot shows the AWS Management Console interface. On the left, the navigation pane is visible with categories like 'Instances', 'Images', 'Elastic Block Store', 'Network & Security', 'Load Balancing', and 'Auto Scaling'. The main content area displays the 'Volumes' page. A notification banner at the top states: 'Successfully attached volume vol-0ebf316efa7d1955e to instance i-00752676e14162732'. Below this, a table lists volumes. The second volume, 'vol-0ebf316efa7d1955e', is selected. An 'Actions' dropdown menu is open, showing options: 'Modify volume', 'Create snapshot', 'Create snapshot lifecycle policy', 'Delete volume', 'Attach volume', 'Detach volume', 'Force detach volume', 'Manage auto-enabled I/O', and 'Manage tags'. Below the table, the 'Details' tab for the selected volume is visible, showing its ID: 'vol-0ebf316efa7d1955e'.

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
-	vol-054f15fabddf33a85	gp2	8 GiB	100	-	snap-0999f89...	2022/11/23 13:35 GMT+5
-	vol-0ebf316efa7d1955e	gp2	20 GiB	100	-	-	2022/11/23 14:42 GMT+5

Modified volume amount is reflected in instance storage details



The screenshot shows the AWS Management Console interface. On the left, the navigation pane is visible. The main content area displays the 'Instance details' page for instance 'i-00752676e14162732'. The 'Storage' tab is selected, showing details for the root device and block devices. The 'Root device details' section shows the root device name as '/dev/sda1' and the root device type as 'EBS'. The 'Block devices' section shows a table of attached volumes. The first volume, 'vol-054f15fabddf33a85', is attached to '/dev/sda1' with a size of 8 GiB. The second volume, 'vol-0ebf316efa7d1955e', is attached to '/dev/sdf' with a size of 25 GiB. The 'Recent root volume replacement tasks' section shows no recent tasks.

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID	Delete on termination
vol-054f15fabddf33a85	/dev/sda1	8	Attached	Wed Nov 23 2022 13:35:38 ...	No	-	Yes
vol-0ebf316efa7d1955e	/dev/sdf	25	Attached	Wed Nov 23 2022 14:43:36 ...	No	-	No

