

EBS volumes attaching to EC2 instance

1.To create ec2 instance

The screenshot shows the AWS Management Console for the EC2 service. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, and Dedicated Hosts. The main content area displays the 'Instances (1/2)' list. The instance 'volume' (ID: i-00be620b2b8048bac) is shown in a 'Running' state. Below the list, the 'Instance: i-00be620b2b8048bac (volume)' details are visible, including its Instance ID, Public IPv4 address (18.224.184.236), Private IPv4 addresses (172.31.44.222), and Instance state.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
volume	i-00be620b2b8048bac	Running	t2.micro	2/2 checks passed	No alarms	us-east-2c

Instance: i-00be620b2b8048bac (volume)

Details	Security	Networking	Storage	Status checks	Monitoring	Tags
Instance summary						
Instance ID i-00be620b2b8048bac (volume)		Public IPv4 address 18.224.184.236 open address		Private IPv4 addresses 172.31.44.222		
IPv6 address		Instance state		Public IPv4 DNS		

2. To create EBS volume

The screenshot shows the AWS Management Console for the EBS service. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, and Capacity Reservations. The main content area displays the 'Volumes (1/2)' list. Two volumes are shown: 'vol-0a2255279a55934a9' (8 GiB, gp2) and 'vol-044b3b1f3b00b433d' (2 GiB, gp2). Below the list, the 'Volume ID: vol-044b3b1f3b00b433d' details are visible.

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
-	vol-0a2255279a55934a9	gp2	8 GiB	100	-	snap-0e5840a...	2022/08/...
-	vol-044b3b1f3b00b433d	gp2	2 GiB	100	-	-	2022/08/...

Volume ID: vol-044b3b1f3b00b433d

3. Attaching to the EC2 instance

The screenshot shows the AWS Management Console for the EC2 service. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, and Capacity Reservations. The main content area displays the 'Instances (1/1)' list. The instance 'volume' (ID: i-00be620b2b8048bac) is shown in a 'Running' state. Below the list, the 'Instance: i-00be620b2b8048bac (volume)' details are visible, including its Instance ID, Public IPv4 address (18.224.184.236), Private IPv4 addresses (172.31.44.222), and Instance state. The 'Filter block devices' section shows two volumes attached to the instance: 'vol-0a2255279a55934a9' (8 GiB, gp2) and 'vol-044b3b1f3b00b433d' (2 GiB, gp2). The 'Recent root volume replacement tasks' section is also visible.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
volume	i-00be620b2b8048bac	Running	t2.micro	2/2 checks passed	No alarms	us-east-2c

Instance: i-00be620b2b8048bac (volume)

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted
vol-0a2255279a55934a9	/dev/xvda	8	Attached	Tue Aug 02 2022 14:17:23 G...	No
vol-044b3b1f3b00b433d	/dev/sdf	2	Attached	Tue Aug 02 2022 14:21:22 G...	No

Recent root volume replacement tasks

4. Detaching to the ec2 instance

The screenshot shows the AWS Management Console interface. On the left is a navigation menu with options like EC2 Dashboard, Events, Tags, Limits, Instances, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, and Network & Security. The main panel displays the 'Instances (1/1) Info' page. A table lists the instance 'volume' with ID 'i-00be620b2b8048bac', state 'Running', type 't2.micro', and '2/2 checks passed'. Below this, a section titled 'Instance: i-00be620b2b8048bac (volume)' shows a table of block devices. One device is listed: Volume ID 'vol-0a2255279a55934a9', Device name '/dev/xvda', Volume size '8', Attachment status 'Attached', Attachment time 'Tue Aug 02 2022 14:17:23 G...', and Encrypted 'No'. There is also a section for 'Recent root volume replacement tasks' with a 'Replace root volume' button.

cloud formation

CloudFormation is a provisioning of infrastructure through automation

This screenshot shows the 'Specify stack details' step in the AWS CloudFormation console. The 'Stack name' field is filled with 'ec2instance'. Below it, the 'Parameters' section states 'No parameters' and 'There are no parameters defined in your template'. The interface includes a sidebar with steps: Step 1 Specify template, Step 2 Specify stack details (current), Step 3 Configure stack options, and Step 4 Review. At the bottom are 'Cancel', 'Previous', and 'Next' buttons.

This screenshot shows the 'Events' tab for a CloudFormation stack named 'ec2'. The left sidebar shows 'Stacks (1)' with a filter for 'Active' and a 'View nested' toggle. The main area displays a table of events. The events table has columns for Timestamp, Logical ID, Status, and Status reason. The events listed are:

Timestamp	Logical ID	Status	Status reason
2022-08-02 14:38:41 UTC+0530	MyInstance	CREATE_IN_PROGRESS	Resource creation initiated
2022-08-02 14:38:40 UTC+0530	MyInstance	CREATE_IN_PROGRESS	-
2022-08-02 14:38:35 UTC+0530	ec2	CREATE_IN_PROGRESS	User Initiated

EC2

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Scheduled Instances

Instances (1/3) Info

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	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	CI CD POC Jen...	i-001febf08cfcf510	Terminated	t2.micro	-	No alarms	us-east-1a
<input checked="" type="checkbox"/>	ec2	i-0f3f0c3406c72b91c	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	shell scripting ...	i-01e4b92473c0f785f	Terminated	t2.micro	-	No alarms	us-east-1d

Instance: i-0f3f0c3406c72b91c (ec2)

Details Security Networking Storage Status checks Monitoring Tags

▼ Instance summary Info

Instance ID i-0f3f0c3406c72b91c (ec2)	Public IPv4 address 3.93.177.207 open address	Private IPv4 addresses 172.31.20.239
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-3-93-177-207.compute-

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Conclusion: By using CloudFormation ec2 instance launched through automation