

Create an AMI in AWS

9)

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links like Dashboard, EC2 Global View, Events, Instances (selected), Images, and Elastic Block Store. The main area displays a table of instances. One instance, 'my AMI' (i-0799382acd02673fd), is selected and shown in more detail below. Its status is Running, and it's a t2.micro type. It has an alarm status of Initializing and is in the ap-south-1a availability zone. Its public IP is ec2-3-109-139-213.ap-south-1.compute.amazonaws.com. Another instance, 'Server' (i-0d027ecf681be654), is listed as terminated.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
my AMI	i-0799382acd02673fd	Running	t2.micro	Initializing	View alarms +	ap-south-1a	ec2-3-109-139-213.ap-south-1.compute.amazonaws.com
Server	i-0d027ecf681be654	Terminated	t2.micro	-	View alarms +	ap-south-1a	-

i-0799382acd02673fd (my AMI)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary

Instance ID i-0799382acd02673fd	Public IPv4 address 3.109.139.213 [open address]	Private IPv4 addresses 172.31.45.142
IPv6 address -	Instance state Running	Public DNS ec2-3-109-139-213.ap-south-1.compute.amazonaws.com [open address]
Hostname type ip-euromain-172-71-45-142.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) 172.31.45.142.ap-south-1.compute.internal	

8)

The screenshot shows the AWS EC2 Launch an instance page. At the top, there's a breadcrumb trail: Repository search results - GitHub > Launch an instance | EC2 | ap-south-1 > Instances | EC2 | ap-south-1. The main area features a large blue progress bar with the text 'Launching instance' and 'Launch initiation' above it. Below the bar, a message says 'Please wait while we launch your instance. Do not close your browser while this is loading.' The progress is at 80%. At the bottom, there's a 'Details' link and a footer with standard AWS links like CloudShell and Feedback, along with system status icons.

7)

The screenshot shows the AWS EC2 AMIs page. On the left, there's a navigation sidebar with options like Dashboard, EC2 Global View, Instances, Images, and Elastic Block Store. The main content area is titled "Amazon Machine Images (AMIs) (1/1)" and shows a table with one row. The row contains the AMI name "image-1", AMI ID "ami-0e77f64d5a544a6cf", Source "412381768421/image-1", Owner "412381768421", and Visibility "Private". Below the table, a detailed view for "AMI ID: ami-0e77f64d5a544a6cf" is shown with tabs for Details, Permissions, Storage, and Tags. The Details tab displays information such as AMI ID, Image type, Platform details, Root device type, AMI name, Owner account ID, Architecture, Usage operation, Root device name, Status, Source, and Virtualization type.

6)

The screenshot shows the AWS EC2 Instances page. The left sidebar has the same navigation as the previous screenshot. The main area shows a table of instances, with one instance selected and highlighted. A modal dialog box titled "Terminate (delete) instance" is open over the table. The dialog contains a warning message about deleting the root EBS volume, a confirmation question "Are you sure you want to terminate these instances?", and two options: "Termination protection" (set to "Disabled") and "Skip OS shutdown" (unchecked). At the bottom of the dialog are "Cancel" and "Terminate (delete)" buttons. The status bar at the bottom right shows the date and time as 07-08-2025.

5)

The screenshot shows the 'Create Image' wizard in the AWS Management Console. The current step is 'Configure volumes'. The configuration table includes:

Storage type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
EBS	/dev/sda1	Create new snapshot from volume	8	EBS General Purpose S5...	3000	1000	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable

A note below the table states: "During the image creation process, Amazon EC2 creates a snapshot of each of the above volumes."

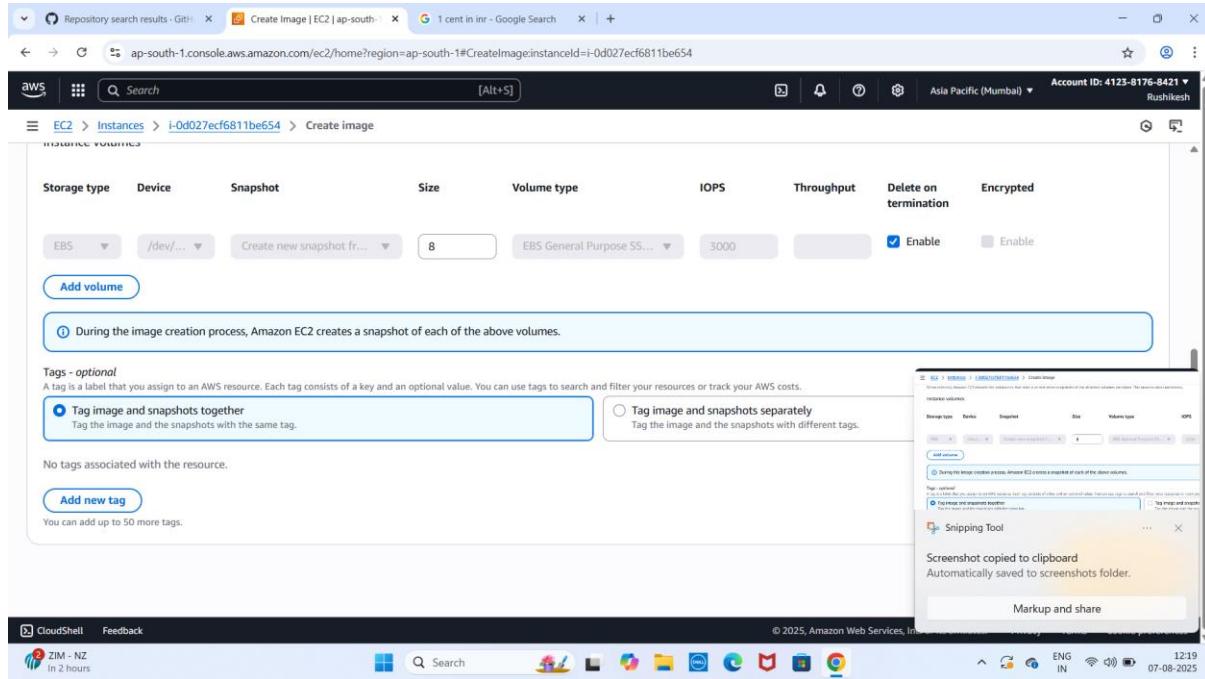
The 'Tags - optional' section contains two radio button options:

- Tag image and snapshots together: Tag the image and the snapshots with the same tag.
- Tag image and snapshots separately: Tag the image and the snapshots with different tags.

No tags are associated with the resource. There is a link to 'Add new tag'.

At the bottom right are 'Cancel' and 'Create image' buttons.

4)



3)

When selected, Amazon EC2 reboots the instance so that data is at rest when snapshots of the attached volumes are taken. This ensures data consistency.

Instance volumes

Storage type	Device	Snapshot	Size	Volume type	IOPS
EBS	/dev/...	Create new snapshot fr...	8	EBS General Purpose SS...	3000

Add volume

During the image creation process, Amazon EC2 creates a snapshot of each of the above volumes.

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your costs.

Tag image and snapshots together

Tag the image and the snapshots with the same tag.

Tag image and snapshots together

Tag the image and the snapshots with the same tag.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

2)

The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with options like Dashboard, EC2 Global View, Events, Instances (selected), Images, and Elastic Block Store. The main area displays a single instance named "i-0d027ecf6811be654 (Server)". The "Actions" dropdown menu is open, and the "Create image" option is highlighted. A tooltip for this action says: "Creates a new Amazon Machine Image (AMI) from the selected instance. The image contains a snapshot of the instance's root volume and any other volumes attached to the instance." Below the Actions menu, there are tabs for Details, Status and alarms, and another Details tab. The Details tab shows the instance ID (i-0d027ecf6811be654), IPv4 address (172.31.47.50), and Private IP DNS name (IPv4 only). The Networking tab shows the instance has a private IP of 172.31.47.50 and a public IP of ec2-13-1-190-190.190.190.190. The Storage tab shows the instance has 8 GB of storage. The Tags tab shows no tags are present. The bottom right corner of the screenshot shows a Snipping Tool window with a screenshot of the EC2 instance details and a message: "Screenshot copied to clipboard Automatically saved to screenshots folder." The status bar at the bottom right shows the date and time as 07-08-2025, 12:18.

1)

The screenshot shows the AWS EC2 Instances page. The left sidebar is collapsed. The main area displays a table of instances with one item: "i-0d027ecf6811be654 (Server)". The instance details are as follows:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
Server	i-0d027ecf6811be654	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1a	ec2-13-1-

Below the table, the "Details" tab is selected, showing the following information:

- Instance ID:** i-0d027ecf6811be654
- Public IPv4 address:** 13.126.179.190 [open address]
- Private IPv4 addresses:** 172.31.47.58
- Instance state:** Running
- Public DNS:** ec2-13-126-179-190.ap-south-1.compute.amazonaws.com [open address]
- Hostname type:** ID number in 172.31.47.58 on ap-south-1.compute.internal
- Private IP DNS name (IPv4 only):** in 172.31.47.58 on ap-south-1.compute.internal

The bottom of the page includes standard AWS navigation links like CloudShell, Feedback, and a footer with copyright information.

📘 How to Create an AMI in AWS

✓ What is an AMI?

An **Amazon Machine Image (AMI)** provides the information required to launch an instance. It includes:

- A template for the root volume.
- Launch permissions.
- Block device mapping.

🔧 Prerequisites

- AWS account
 - At least one running EC2 instance
 - IAM permissions to create AMIs and snapshots
-

Methods to Create an AMI

1. Via AWS Management Console

Steps:

1. Open EC2 Dashboard

Go to EC2 Dashboard.

2. Choose Instances

In the left menu, click on **Instances**.

3. Select an Instance

Choose the EC2 instance you want to create an AMI from.

4. Create Image

- Click **Actions > Image and templates > Create image**.

- Fill in:

- **Image name** and optional **description**
- Decide whether to **No reboot** (check this only if you don't want the instance to reboot, which may risk data consistency)

5. Add Volumes (optional)

You can modify or add block device mappings.

6. Create Image

Click **Create Image**.

It will start creating the AMI and snapshots.

7. View AMI Status

Go to **AMIs** in the left menu to see the image status.