

AMI

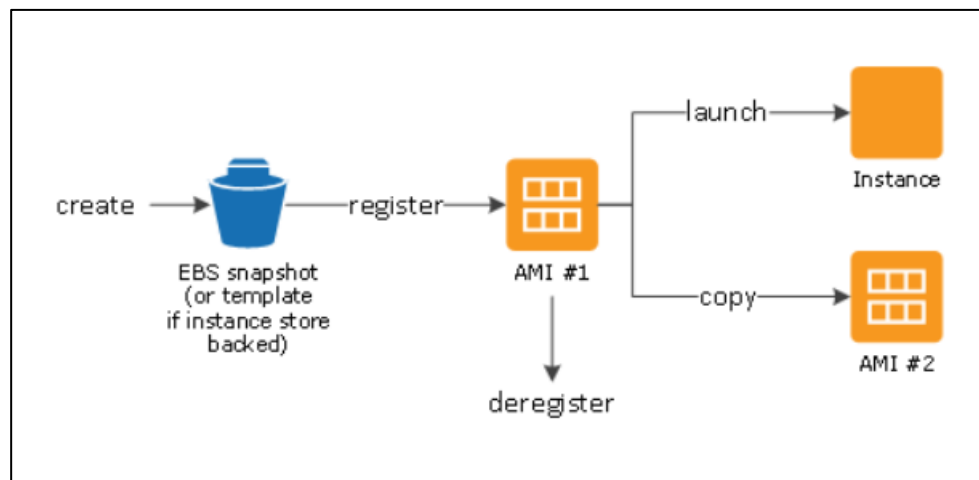
AMI:

An Amazon Machine Image (AMI) is a supported and maintained image provided by AWS that provides the information required to launch an instance. You must specify an AMI when you launch an instance. You can launch multiple instances from a single AMI when you require multiple instances with the same configuration. You can use different AMIs to launch instances when you require instances with different configurations.

An AMI includes the following:

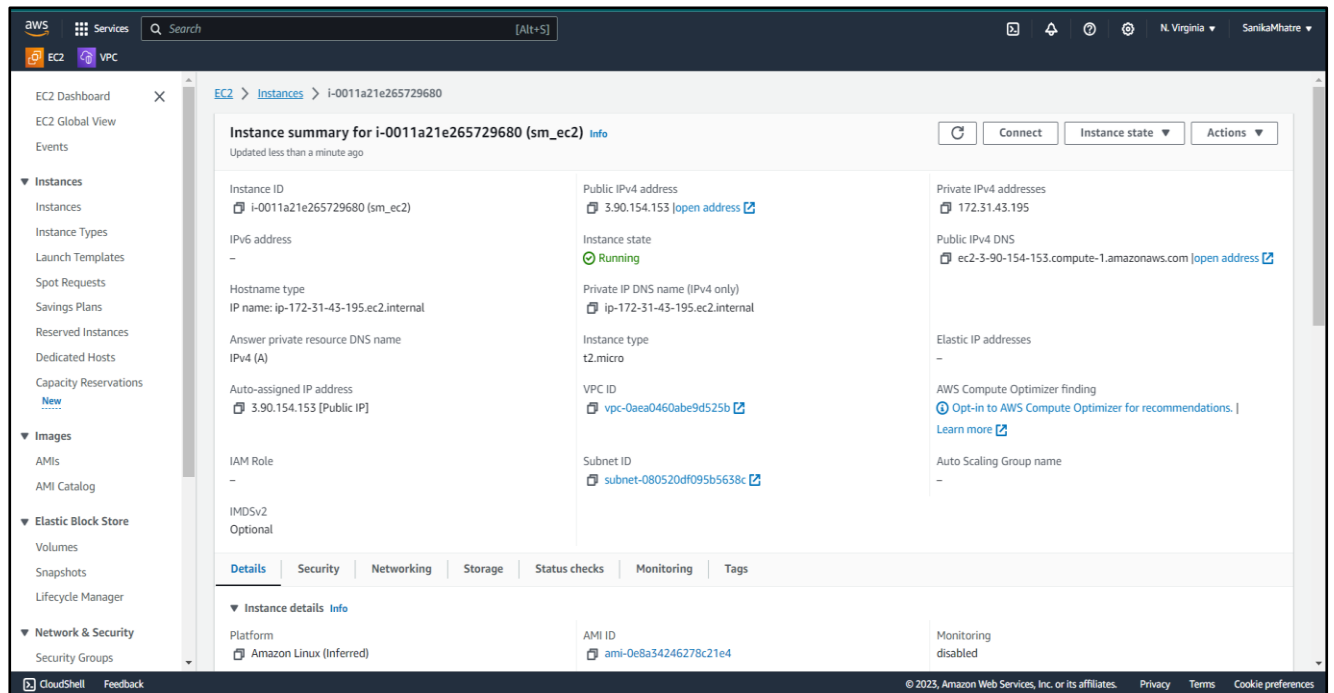
- One or more Amazon Elastic Block Store (Amazon EBS) snapshots, or, for instance-store-backed AMIs, a template for the root volume of the instance (for example, an operating system, an application server, and applications).
- Launch permissions that control which AWS accounts can use the AMI to launch instances.
- A block device mapping that specifies the volumes to attach to the instance when it's launched.

Use an AMI:

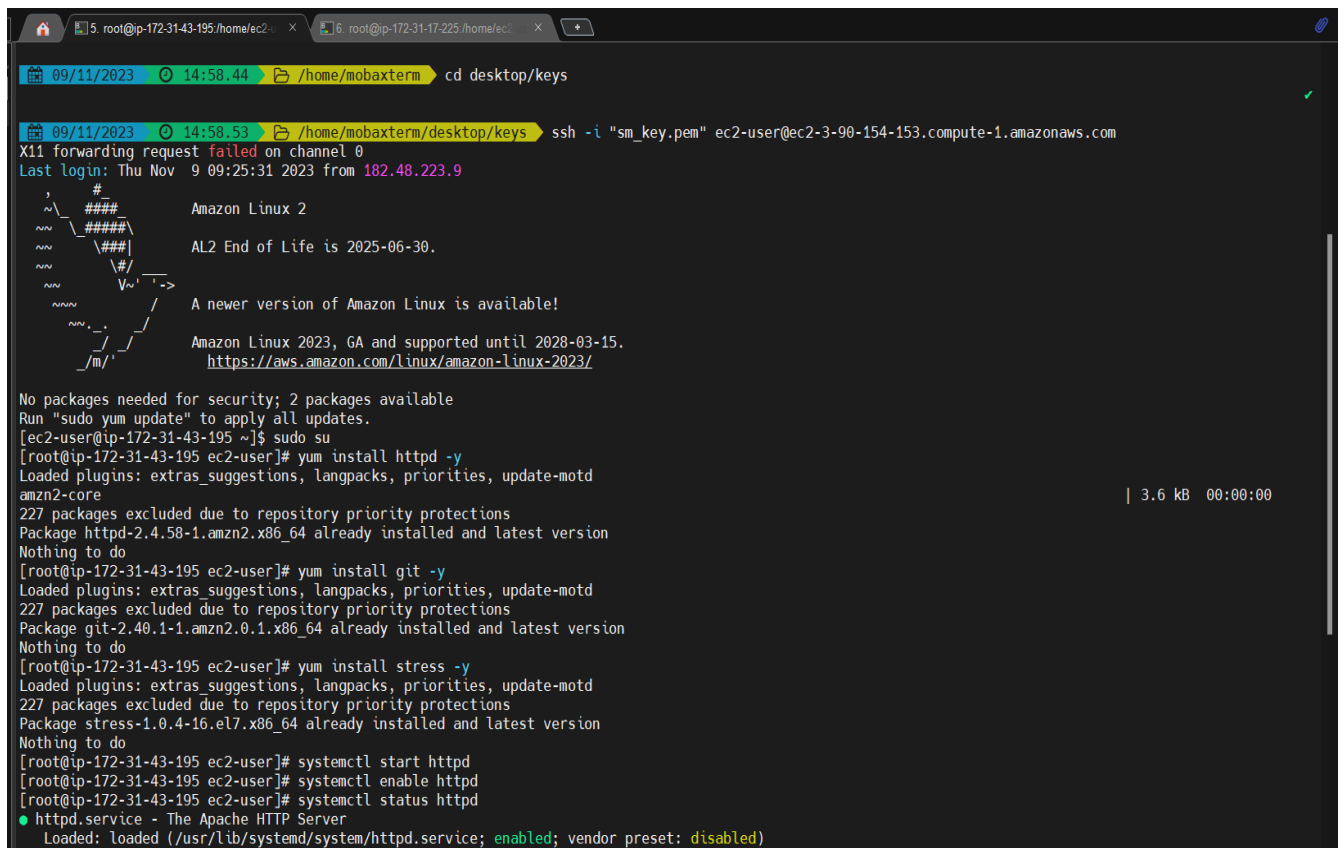


The following diagram summarizes the AMI lifecycle. After you create and register an AMI, you can use it to launch new instances. (You can also launch instances from an AMI if the AMI owner grants you launch permissions.) You can copy an AMI within the same AWS Region or to different AWS Regions. When you no longer require an AMI, you can deregister it.

Create an Instance (N.Virginia):



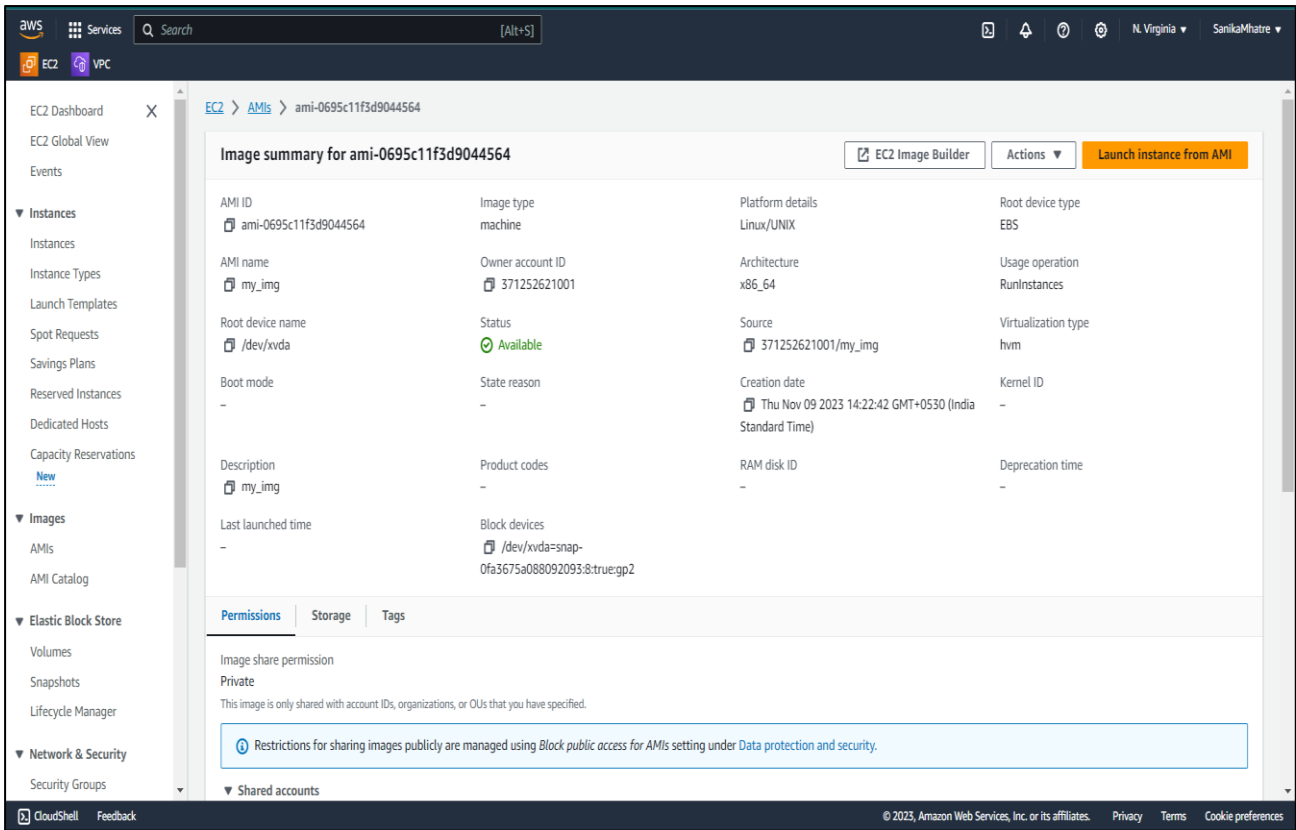
Connect the created instance (mobaXterm):



Screenshot of html page:



Screenshot of AMI created in N.Virginia:



Shared AMI in Stockholm:

The screenshot displays the AWS Management Console interface for the Stockholm region. The left-hand navigation pane shows the 'EC2' service selected, with the 'Images' section expanded. The main content area shows the 'Image summary for ami-0dc960614bf1726d8'. The summary includes the following details:

AMI ID	Image type	Platform details	Root device type
ami-0dc960614bf1726d8	machine	Linux/UNIX	EBS
AMI name	Owner account ID	Architecture	Usage operation
my_img	371252621001	x86_64	RunInstances
Root device name	Status	Source	Virtualization type
/dev/xvda	Available	371252621001/my_img	hvm
Boot mode	State reason	Creation date	Kernel ID
-	-	Thu Nov 09 2023 14:32:43 GMT+0530 (India Standard Time)	-
Description	Product codes	RAM disk ID	Deprecation time
[Copied ami-0695c11f3d9044564 from us-east-1] my_img	-	-	-
Last launched time	Block devices		
-	/dev/xvda=snap-0c7433bc1ce8fb349:8:true:gp2		

Below the summary, there are tabs for 'Permissions', 'Storage', and 'Tags'. The 'Permissions' tab is active, showing the 'Image share permission' as 'Private'.

Instance created using shared AMI:

The screenshot displays the AWS Management Console interface for the Stockholm region, showing the details of an EC2 instance created using the shared AMI. The left-hand navigation pane shows the 'EC2' service selected, with the 'Instances' section expanded. The main content area shows the 'Instance summary for i-0fd654233a04b7fc1 (sm_ec2_2)'. The summary includes the following details:

Instance ID	Public IPv4 address	Private IPv4 addresses	
i-0fd654233a04b7fc1 (sm_ec2_2)	51.20.75.212 open address	172.31.17.225	
IPv6 address	Instance state	Public IPv4 DNS	
-	Running	ec2-51-20-75-212.eu-north-1.compute.amazonaws.com open address	
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses	
IP name: ip-172-31-17-225.eu-north-1.compute.internal	ip-172-31-17-225.eu-north-1.compute.internal	-	
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding	
IPv4 (A)	t3.micro	Opt-in to AWS Compute Optimizer for recommendations. Learn more	
Auto-assigned IP address	VPC ID	Auto Scaling Group name	
51.20.75.212 [Public IP]	vpc-03714e73685327f38	-	
IAM Role	Subnet ID		
-	subnet-0aff0d4af64b7f478		
IMDSv2			
Optional			

Below the summary, there are tabs for 'Details', 'Security', 'Networking', 'Storage', 'Status checks', 'Monitoring', and 'Tags'. The 'Details' tab is active.

Connect the instance in Mobaxterm (Stockholm):

```
09/11/2023 15:01:34 /home/mobaxterm/desktop/keys ssh -i "sm_stkhm.pem" root@ec2-51-20-75-212.eu-north-1.compute.amazonaws.com
Warning: Permanently added 'ec2-51-20-75-212.eu-north-1.compute.amazonaws.com' (ED25519) to the list of known hosts.
X11 forwarding request failed on channel 0
Please login as the user "ec2-user" rather than the user "root".

Connection to ec2-51-20-75-212.eu-north-1.compute.amazonaws.com closed.

09/11/2023 15:01:51 /home/mobaxterm/desktop/keys ssh -i "sm_stkhm.pem" ec2-user@ec2-51-20-75-212.eu-north-1.compute.amazonaws.com
Last login: Thu Nov  9 08:42:31 2023 from 182.48.223.9

#
#####
#      Amazon Linux 2
#####
#      AL2 End of Life is 2025-06-30.
#####
#
#      A newer version of Amazon Linux is available!
#
#      Amazon Linux 2023, GA and supported until 2028-03-15.
#      https://aws.amazon.com/linux/amazon-linux-2023/

No packages needed for security: 2 packages available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-17-225 ~]$ sudo su
[root@ip-172-31-17-225 ec2-user]# yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
227 packages excluded due to repository priority protections
Package httpd-2.4.58-1.amzn2.x86_64 already installed and latest version
Nothing to do
[root@ip-172-31-17-225 ec2-user]# yum install git -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
227 packages excluded due to repository priority protections
Package git-2.40.1-1.amzn2.0.1.x86_64 already installed and latest version
Nothing to do
[root@ip-172-31-17-225 ec2-user]# yum install stress -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
227 packages excluded due to repository priority protections
Package stress-1.0.4-16.el7.x86_64 already installed and latest version
Nothing to do
[root@ip-172-31-17-225 ec2-user]#
```