AWS Documentation

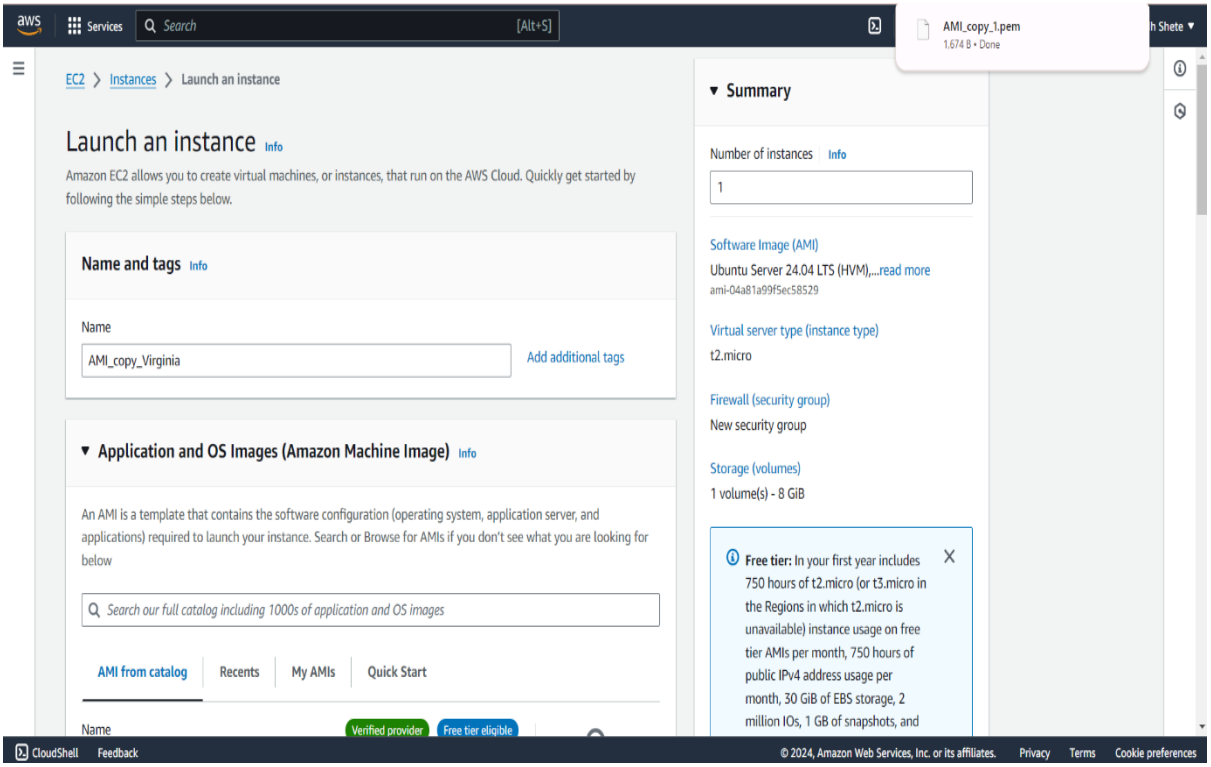
Number	Task
1.	Copy AMI
2.	Spot Request
3.	Savings plans
4.	Reserved Instances
5.	Dedicated Hosts
6.	Capacity reservations

1. Copy AMI:-

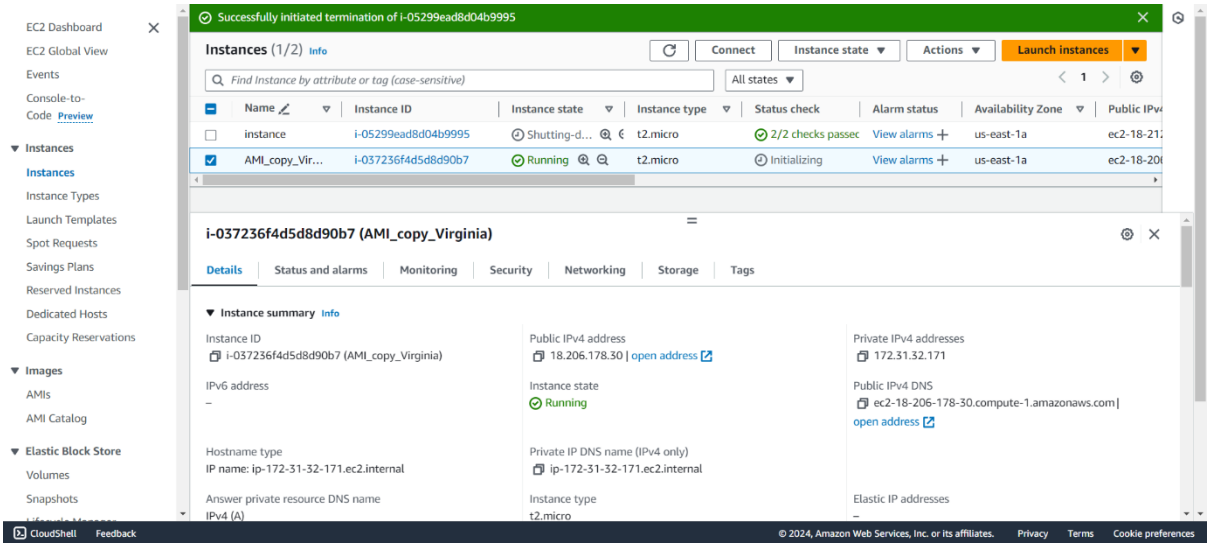
Copying AMIs to different regions ensures that you have backups in multiple locations, providing a safety net in case of regional failures or disasters.

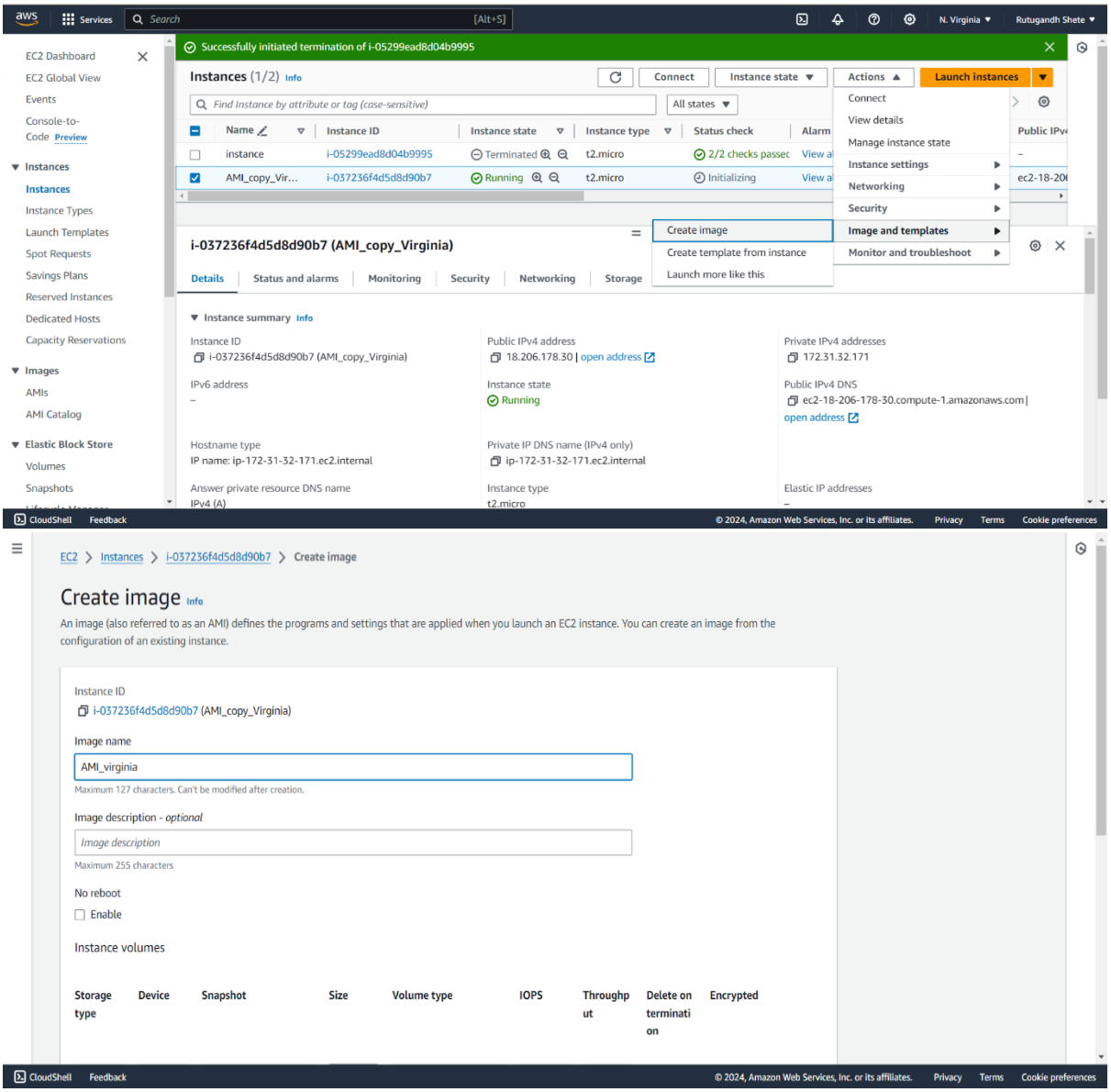
When deploying applications globally, you can copy AMIs to various regions to ensure low latency and high availability for users in different geographic locations.

- Create EC2 instance by choosing N. Virginia zone.

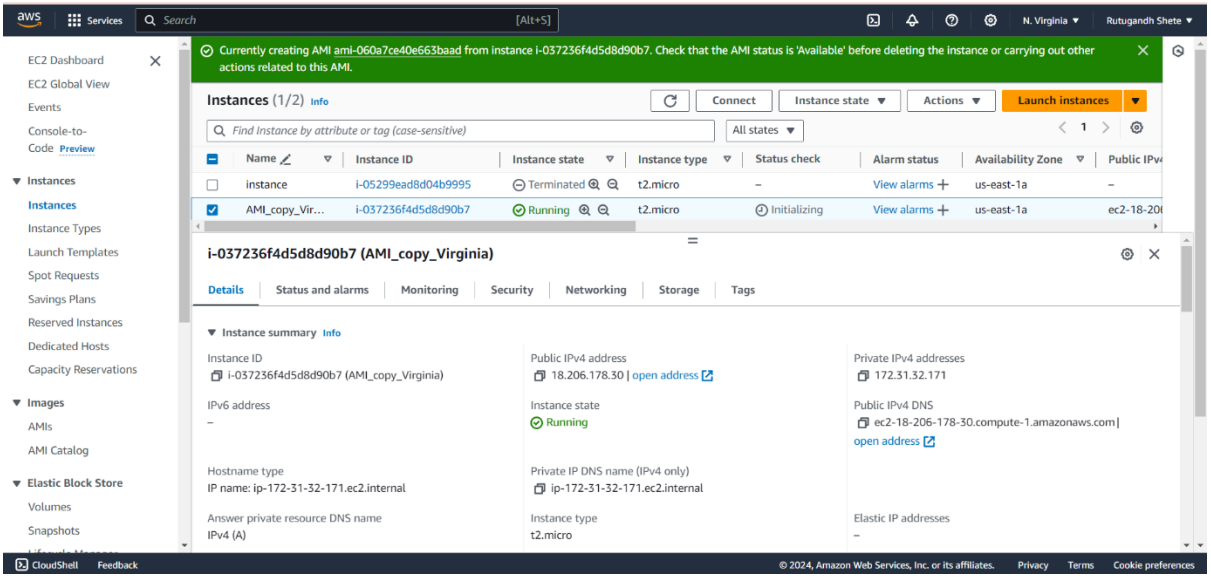


- Once the instance is created then create AMI of that instance.





- After creating AMI then go to AMI→select AMI-name→Copy AMI.
    1. **Destination Region:** Select the AWS region where you want to copy the AMI.
    2. **Name:** Provide a name for the copied AMI.
    3. **Description:** (Optional) Add a description for the copied AMI.
    4. **Encryption:** Choose whether to encrypt the copied AMI.


Currently creating AMI ami-060a7ce40e663baad from instance i-037236f4d5d8d90b7. Check that the AMI status is 'Available' before deleting the instance or carrying out other actions related to this AMI.
Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
All states
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
instance
i-05299ead8d04b9995
Terminated
t2.micro
View alarms
us-east-1a
AMI_copy_Vir...
i-037236f4d5d8d90b7
Running
t2.micro
Initializing
View alarms
us-east-1a
i-037236f4d5d8d90b7 (AMI_copy_Virginia)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-037236f4d5d8d90b7 (AMI_copy_Virginia)
Public IPv4 address
18.206.178.30 | open address
Private IPv4 addresses
172.31.32.171
IPv6 address
Instance state
Running
Public IPv4 DNS
ec2-18-206-178-30.compute-1.amazonaws.com | open address
Hostname type
IP name: ip-172-31-32-171.ec2.internal
Private IP DNS name (IPv4 only)
ip-172-31-32-171.ec2.internal
Answer private resource DNS name
IPv4 (A)
Instance type
t2.micro
Elastic IP addresses
EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
CloudShell
Feedback
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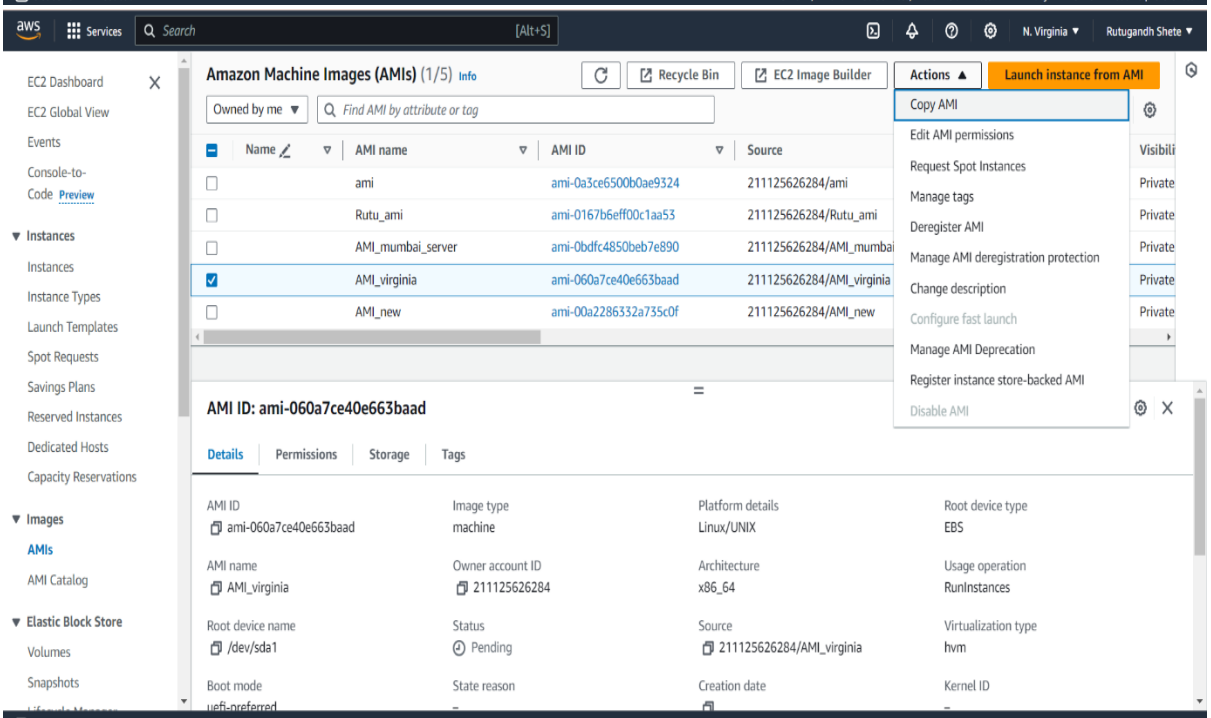
Amazon Machine Images (AMIs) (1/5) Info
Recycle Bin
EC2 Image Builder
Actions
Launch instance from AMI
Owned by me
Find AMI by attribute or tag
Name
AMI name
AMI ID
Source
ami
ami-0a3ce6500b0ae9324
211125626284/ami
Rutu_ami
ami-0167b6eff00c1aa53
211125626284/Rutu_ami
AMI_mumbai_server
ami-0bdfc4850beb7e890
AMI_virginia
ami-060a7ce40e663baad
211125626284/AMI_virginia
AMI_new
ami-00a2286332a735c0f
211125626284/AMI_new
Copy AMI
Edit AMI permissions
Request Spot Instances
Manage tags
Deregister AMI
Manage AMI deregistration protection
Change description
Configure fast launch
Manage AMI Deprecation
Register instance store-backed AMI
Disable AMI
AMI ID: ami-060a7ce40e663baad
Details
Permissions
Storage
Tags
AMI ID
ami-060a7ce40e663baad
Image type
machine
Platform details
Linux/UNIX
Root device type
EBS
AMI name
AMI_virginia
Owner account ID
211125626284
Architecture
x86_64
Usage operation
RunInstances
Root device name
/dev/sda1
Status
Pending
Source
211125626284/AMI_virginia
Virtualization type
hvm
Boot mode
uefi-preferred
State reason
Creation date
Kernel ID
CloudShell
Feedback
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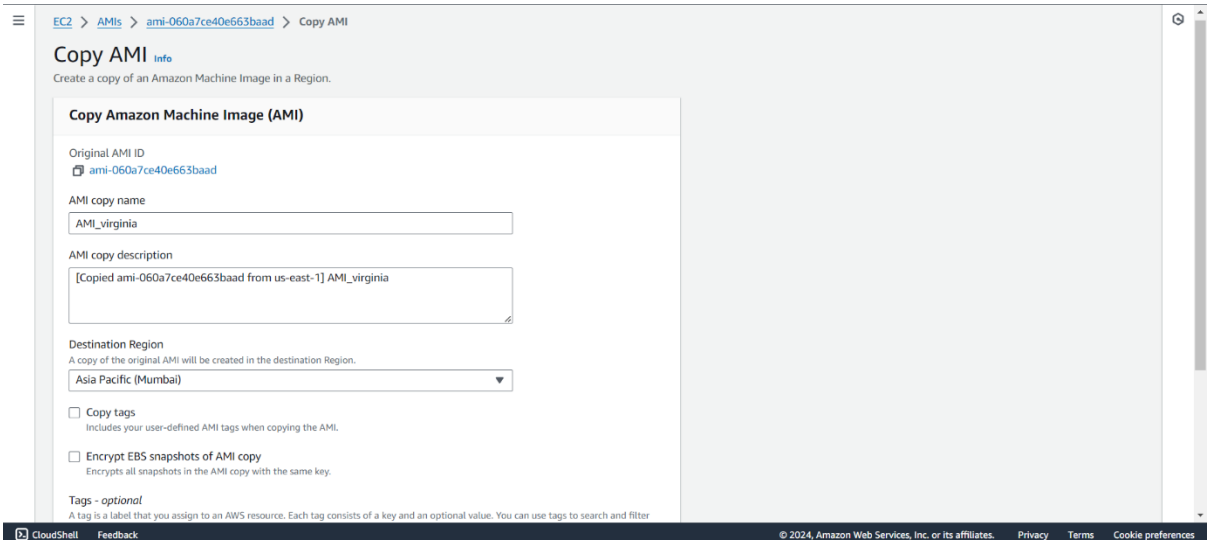
EC2 > AMIs > ami-060a7ce40e663baad > Copy AMI
Copy AMI Info
Create a copy of an Amazon Machine Image in a Region.
Copy Amazon Machine Image (AMI)
Original AMI ID
ami-060a7ce40e663baad
AMI copy name
AMI_virginia
AMI copy description
[Copied ami-060a7ce40e663baad from us-east-1] AMI_virginia
Destination Region
A copy of the original AMI will be created in the destination Region.
Asia Pacific (Mumbai)
Copy tags
Includes your user-defined AMI tags when copying the AMI.
Encrypt EBS snapshots of AMI copy
Encrypts all snapshots in the AMI copy with the same key.
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
CloudShell
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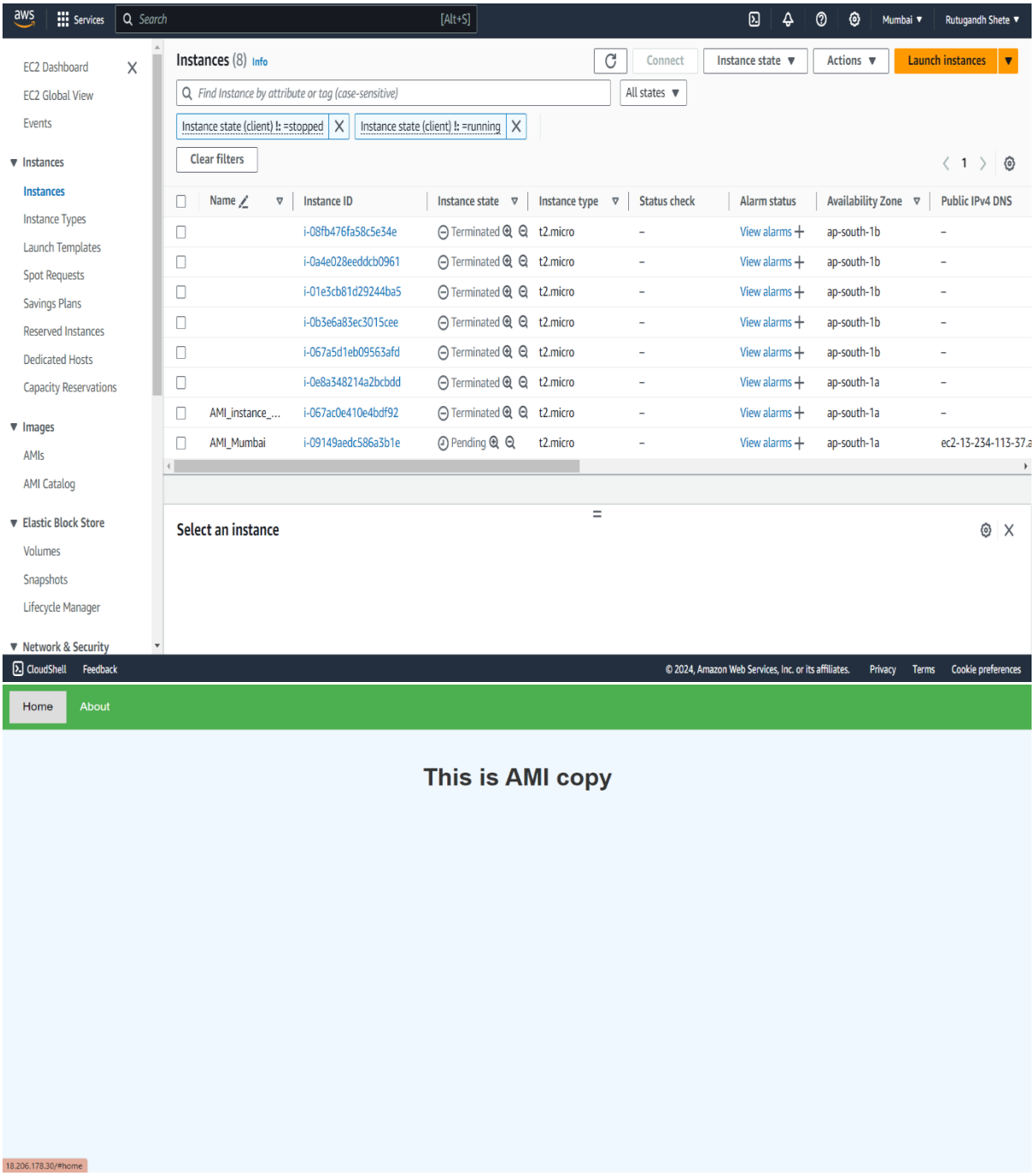
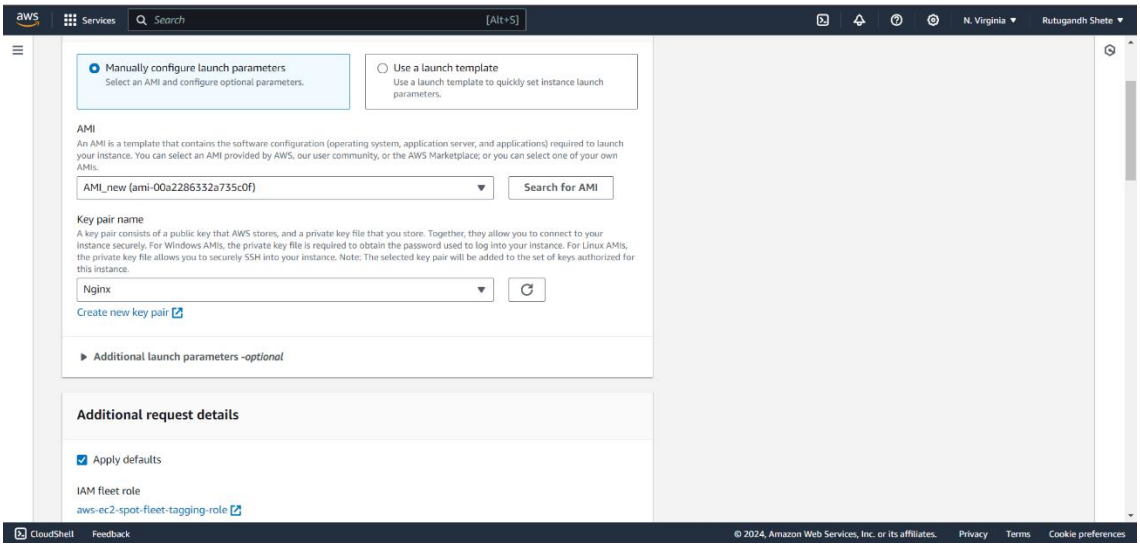
- Change zone to Asia pacific (Mumbai) and wait AMI is generated.
- Once the copy of AMI for Mumbai region is created then launch instance and check pre-configuration which was already created in N. Virginia zone.



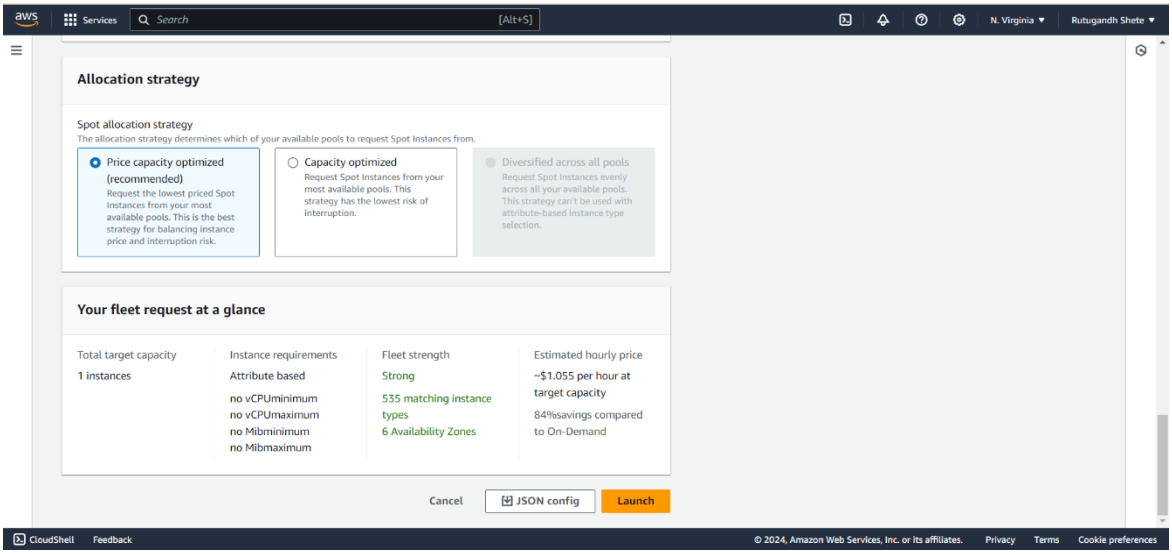
2. Spot Request:-

- In the EC2 Dashboard, find the "Spot Requests" option in the left-hand menu under "Instances."



- Click on the "Request Spot Instances" button.
- Select an Amazon Machine Image (AMI) for your instance. You can choose from the list of available AMIs or use a custom one.
- Choose the instance type that suits your needs (e.g., t3.micro, m5.large).
- Number of instances: Specify how many instances you need.
- Maximum price: Set the maximum price you're willing to pay per instance-hour.
- Review your Spot Instance request details.

- Click the "Launch" button to submit your Spot Instance request.



3. Savings plans:-

- Savings Plans provide a flexible pricing model that offers significant savings compared to On-Demand pricing, in exchange for a commitment to a consistent amount of usage (measured in $/hour) for a 1- or 3-year term.
- With Savings Plans, you can reduce costs on various AWS services, including EC2, Lambda, and Fargate, by committing to a consistent usage level, regardless of instance family, region, or operating system.

4. Reserved Instances:-

- Reserved Instances offer a discount compared to On-Demand pricing in exchange for a one- or three-year commitment. They provide a billing discount and capacity reservation in a specific Availability Zone.

- By purchasing Reserved Instances, you can achieve significant savings over On-Demand instances, particularly for predictable workloads that run continuously or periodically.

5. Dedicated Hosts:-

- Dedicated Hosts provide physical servers fully dedicated to your use, enabling you to use your existing server-bound software licenses and meet compliance requirements.
- With Dedicated Hosts, you get full control over the physical server, allowing you to manage instance placement, utilize your own licenses, and ensure compliance with regulatory requirements.

6. Capacity Reservations:-

- Capacity Reservations guarantee that you have access to EC2 capacity when you need it, in a specific Availability Zone, for as long as you require.
- With Capacity Reservations, you can reserve capacity for your instances in advance, ensuring availability during peak times or for critical applications, without long-term commitments.