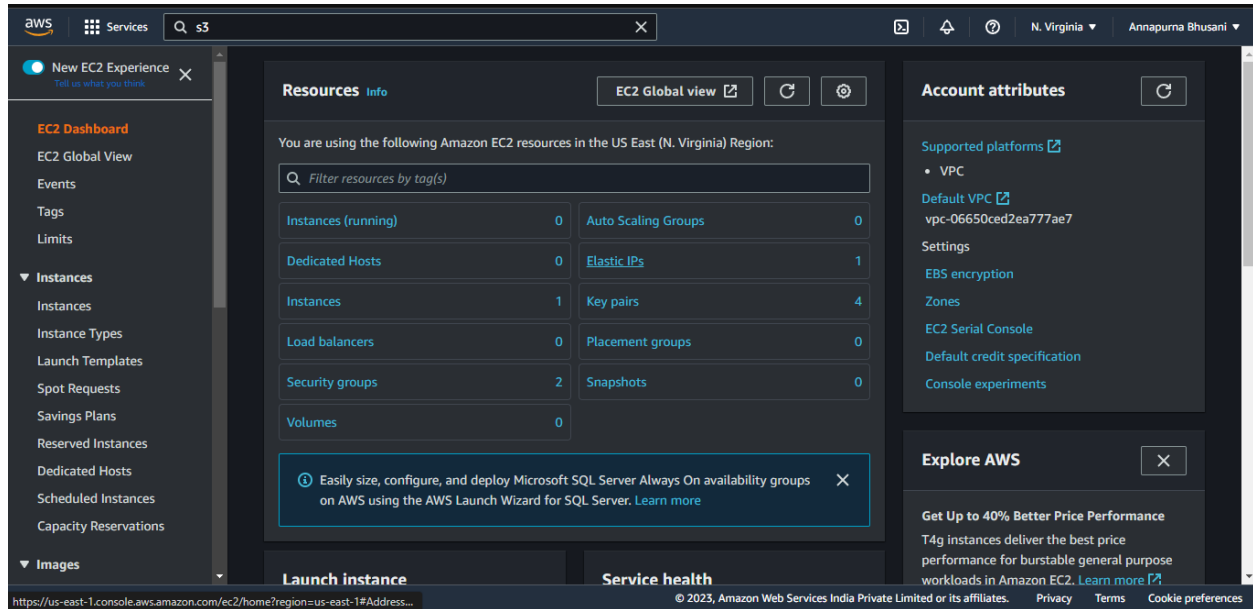


## 1. EC2 Instance Launch Page

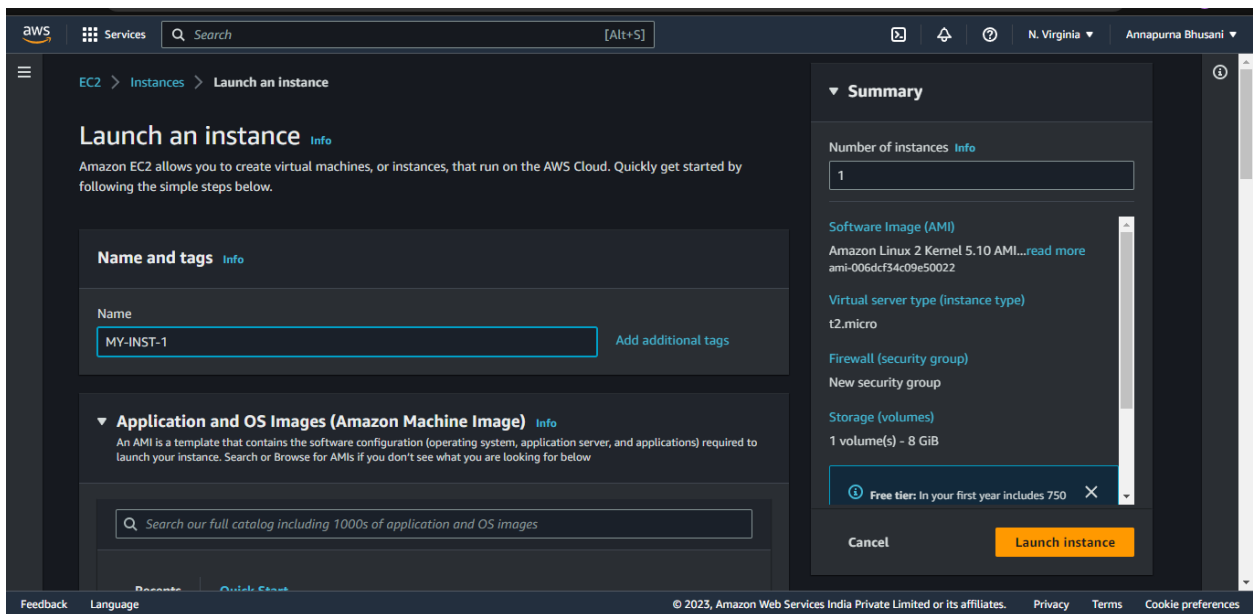


The screenshot shows the AWS Management Console EC2 Dashboard. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, and Images. The main content area is titled 'Resources' and shows a summary of EC2 resources in the US East (N. Virginia) Region. A table lists the following resources:

Resource	Count
Instances (running)	0
Dedicated Hosts	0
Instances	1
Load balancers	0
Security groups	2
Volumes	0
Auto Scaling Groups	0
Elastic IPs	1
Key pairs	4
Placement groups	0
Snapshots	0

Below the table, there is a notification: 'Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. Learn more'. The right sidebar shows 'Account attributes' with links for Supported platforms, Default VPC, Settings, EBS encryption, Zones, EC2 Serial Console, Default credit specification, and Console experiments. At the bottom, there is a 'Launch instance' button and a 'Service health' link.

## 2. EC2 Name and Tag Creation

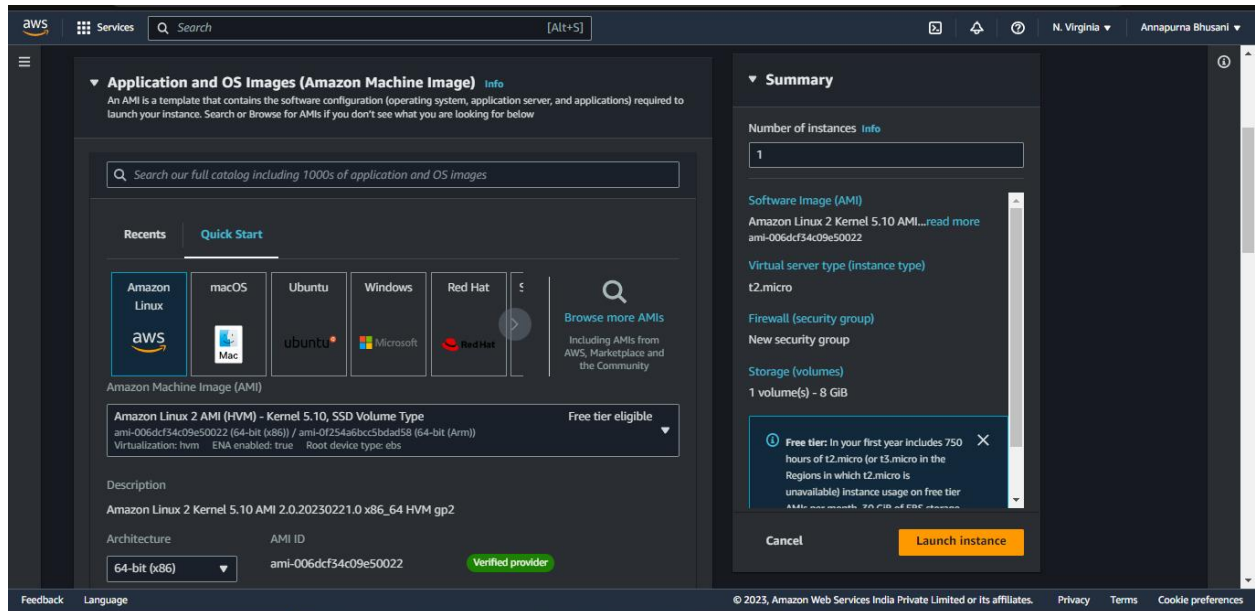


The screenshot shows the 'Launch an instance' page in the AWS Management Console. The page is titled 'Launch an instance' and includes a brief description: 'Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.' The page is divided into two main sections: 'Name and tags' and 'Application and OS Images (Amazon Machine Image)'. The 'Name and tags' section has a text input field for the instance name, which is currently set to 'MY-INST-1', and a button to 'Add additional tags'. The 'Application and OS Images (Amazon Machine Image)' section has a search bar and a list of AMIs. The right sidebar shows a 'Summary' section with the following details:

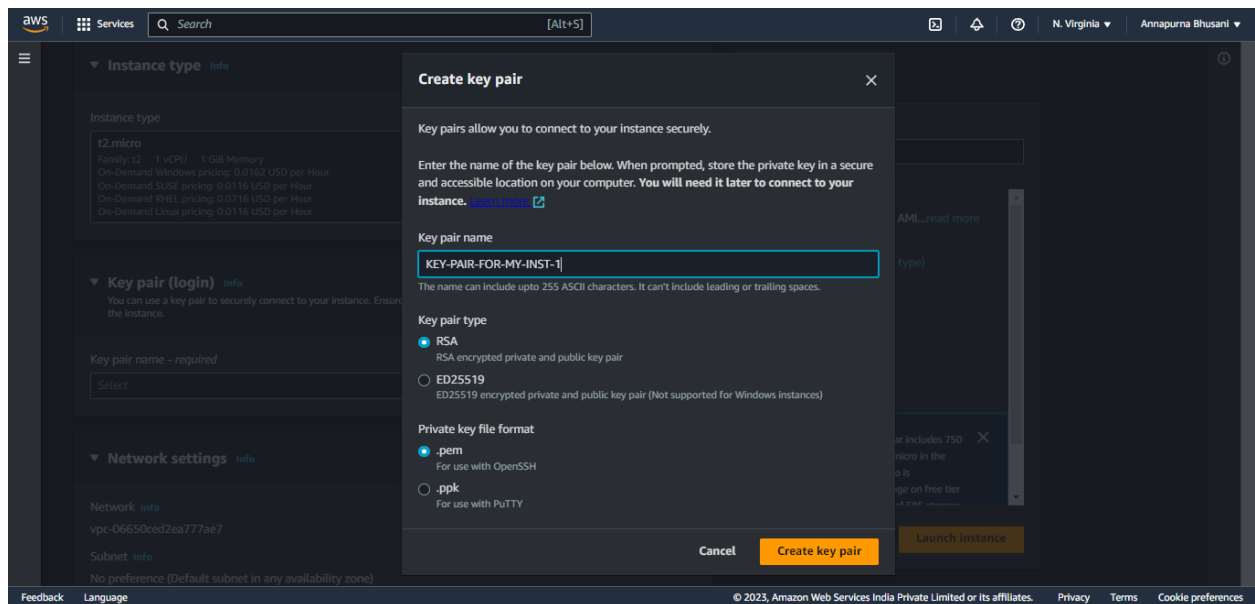
- Number of instances: 1
- Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI...read more (ami-006dcf34c09e50022)
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group
- Storage (volumes): 1 volume(s) - 8 GiB

At the bottom of the summary section, there is a notification: 'Free tier: In your first year includes 750'. Below the summary, there are 'Cancel' and 'Launch instance' buttons.

### 3. EC2 AMI Selection



### 4. EC2 Key Pair Creation



## 5. EC2 Security Group Creation ( SSH,HTTP,HTTPS)

aws Services Search [Alt+S]

Create security group Select existing security group

Security group name - required  
SG-FOR-INSTANCE  
This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and \_-./[!@#%&'()\*+,-=:;{}|~]

Description - required info  
launch-wizard-1 created 2023-03-04T15:37:30.010Z

Inbound security groups rules

Security group rule 1 (TCP, 22, 0.0.0.0/0) Remove

Type Info ssh Protocol Info TCP Port range Info 22

Source type Info Anywhere Source Info 0.0.0.0/0 Description - optional info e.g. SSH for admin desktop

Security group rule 2 (TCP, 80) Remove

Type Info HTTP Protocol Info TCP Port range Info 80

Source type Info Anywhere Source Info 0.0.0.0/0 Description - optional info e.g. SSH for admin desktop

Summary

Number of instances Info 1

Software Image (AMI) Amazon Linux 2 Kernel 5.10 AMI...read more ami-006dcf34c09e50022

Virtual server type (instance type) t2.micro

Firewall (security group) New security group

Storage (volumes) 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier. AMI per month: 30 GiB of EBS storage.

Cancel Launch instance

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aws Services Search [Alt+S]

Security group rule 2 (TCP, 80, 0.0.0.0/0) Remove

Type Info HTTP Protocol Info TCP Port range Info 80

Source type Info Anywhere Source Info 0.0.0.0/0 Description - optional info e.g. SSH for admin desktop

Security group rule 3 (TCP, 443, 0.0.0.0/0) Remove

Type Info HTTPS Protocol Info TCP Port range Info 443

Source type Info Anywhere Source Info 0.0.0.0/0 Description - optional info e.g. SSH for admin desktop

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Add security group rule

Summary

Number of instances Info 1

Software Image (AMI) Amazon Linux 2 Kernel 5.10 AMI...read more ami-006dcf34c09e50022

Virtual server type (instance type) t2.micro

Firewall (security group) New security group

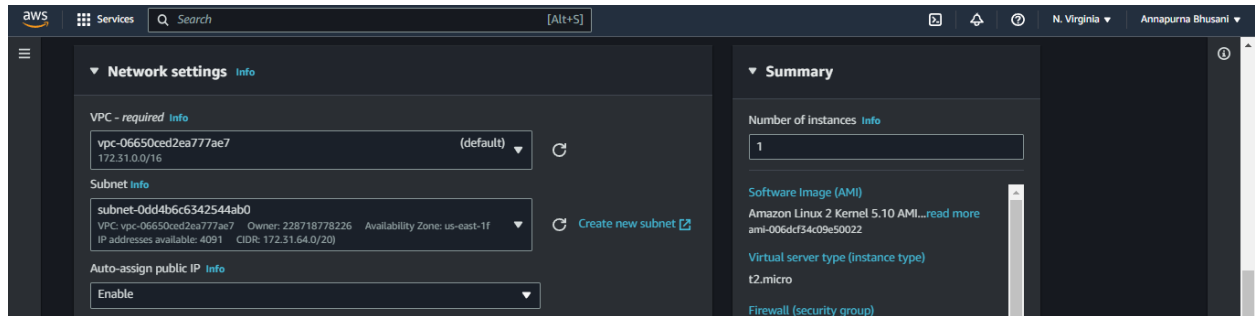
Storage (volumes) 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier. AMI per month: 30 GiB of EBS storage.

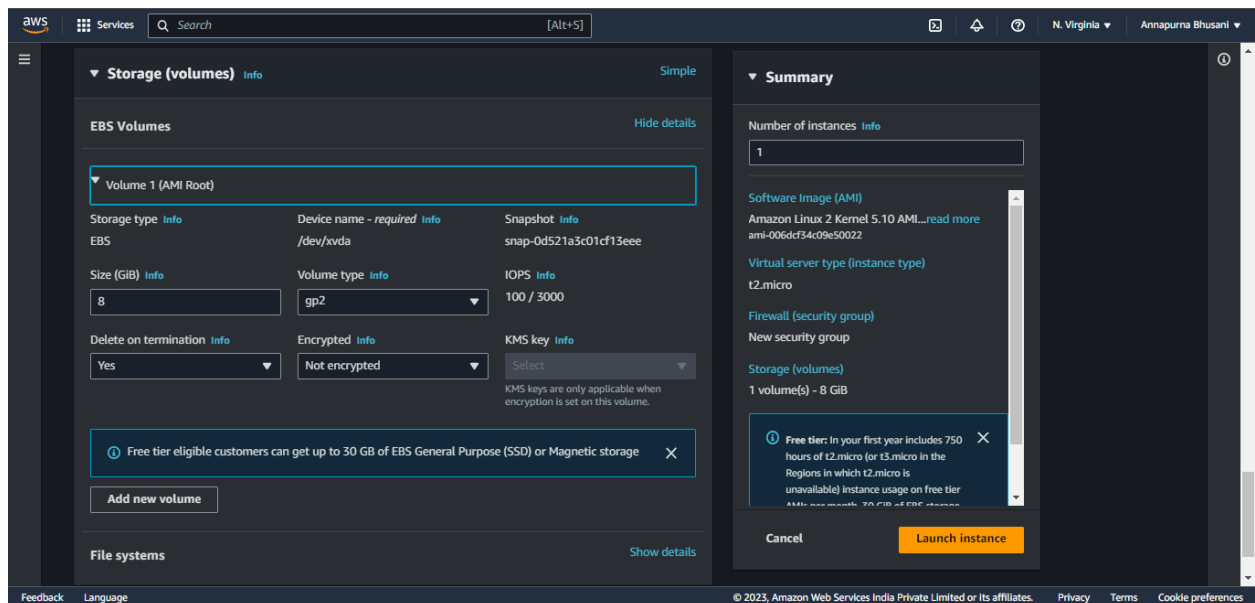
Cancel Launch instance

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## 6. EC2 VPC and Subnet Selection

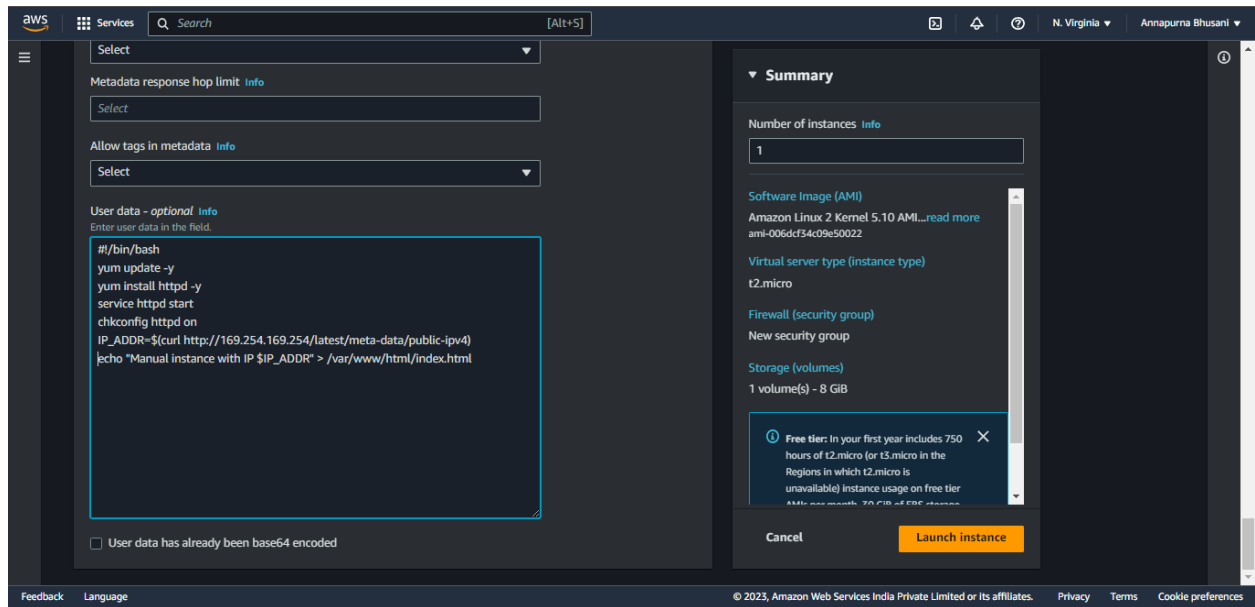


## 7. EC2 EBS Volume Selection

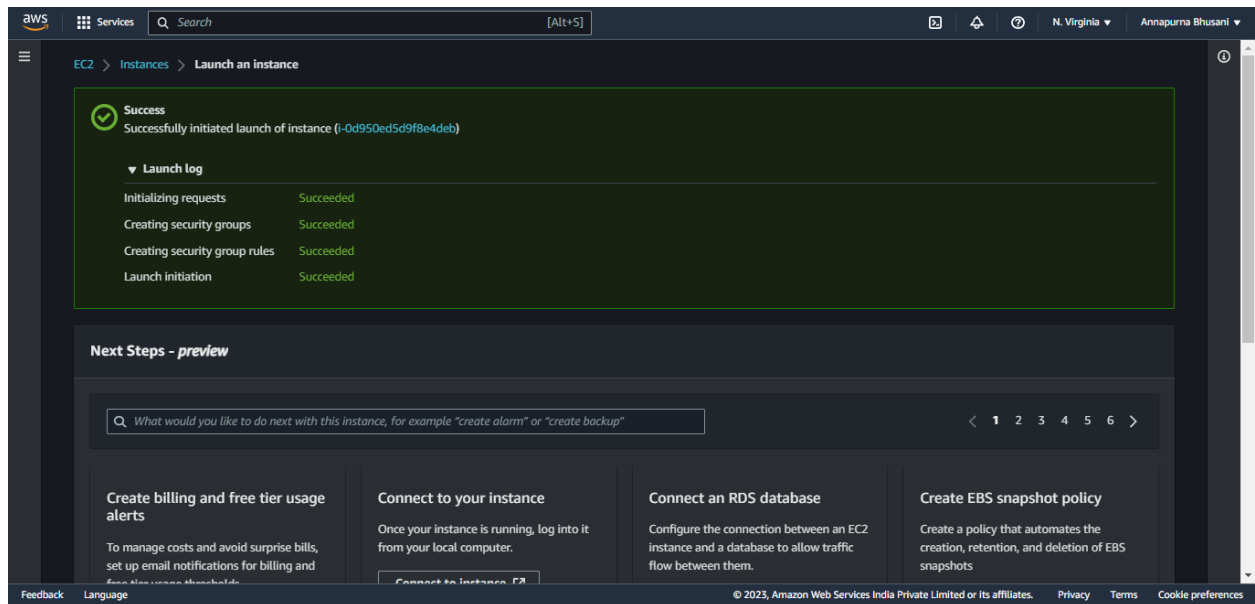


## 8 . User Data Insertion Page with below command

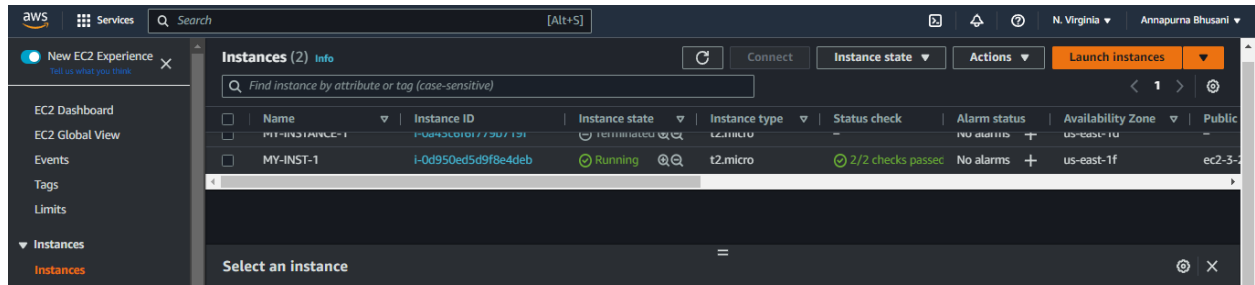
```
#!/bin/bash
yum update -y
yum install httpd -y
service httpd start
chkconfig httpd on
IP_ADDR=$(curl http://169.254.169.254/latest/meta-data/public-
ipv4)
echo "Manual instance with IP $IP_ADDR" >
/var/www/html/index.html
```



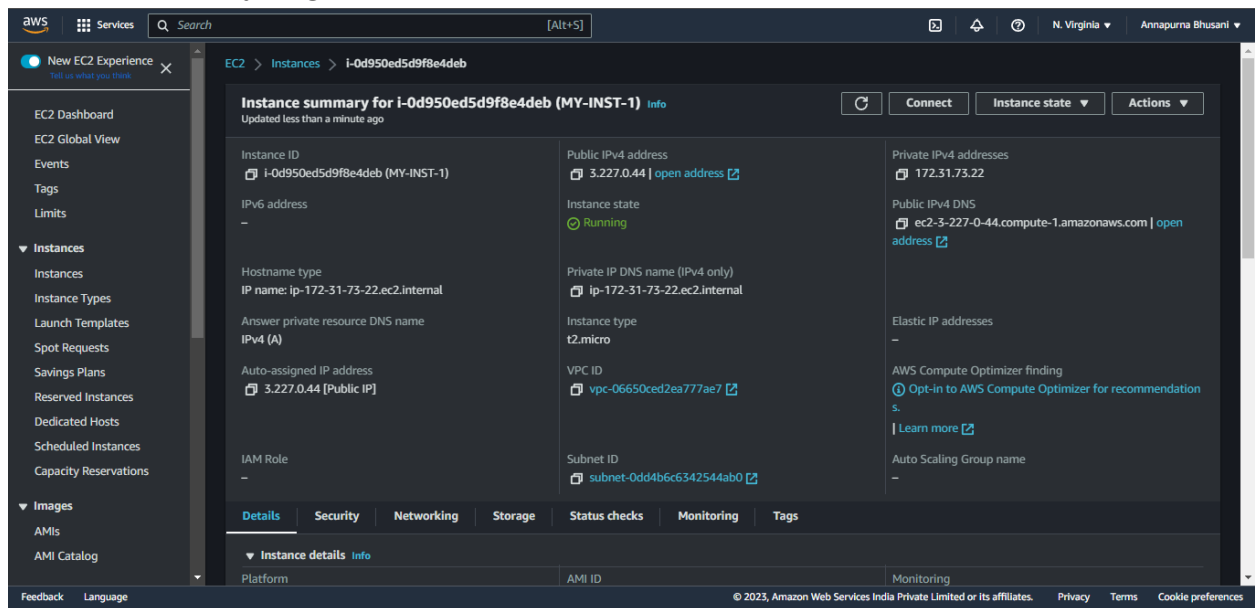
## 9. EC2 Launch Logs



## 10 . EC2 Instance Running State



## 11. EC2 Summary Page with Public and Private IP



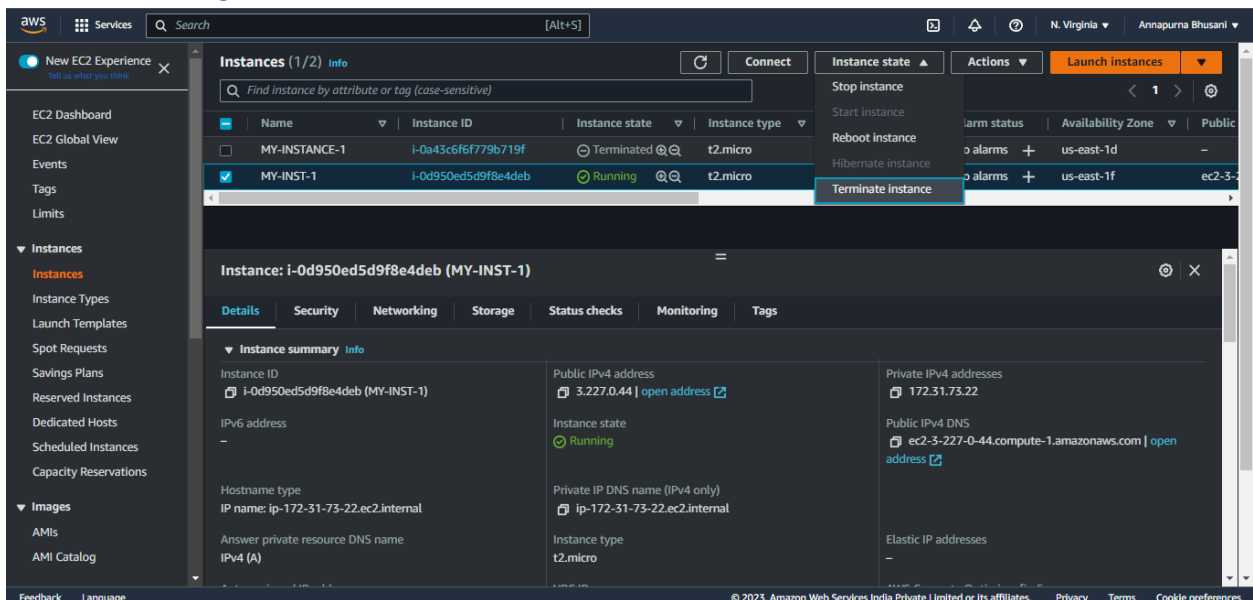
## 12. EC2 Instance Monitoring Page



## 14. Browsing EC2 instance in the Browser Local Machine.



## 15. Terminating the Resource.





← → ↺

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:v=3;\$case=tag:true%5C,client:false;\$regex=tags:false%5C,client:false

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aws

Services

Search [Alt+S]

N. Virginia

Annapurna Bhusani

New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

AMI Catalog

Successfully terminated i-0d950ed5d9f8e4deb

Instances (1/2) Info

Find instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public
<input type="checkbox"/>	MY-INSTANCE-1	i-0a43c6f6f779b719f	Terminated	t2.micro	–	No alarms +	us-east-1d	–
<input checked="" type="checkbox"/>	MY-INST-1	i-0d950ed5d9f8e4deb	Terminated	t2.micro	–	No alarms +	us-east-1f	–

Instance: i-0d950ed5d9f8e4deb (MY-INST-1)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

▼ Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0d950ed5d9f8e4deb (MY-INST-1)	–	–
IPv6 address	Instance state	Public IPv4 DNS
–	Terminated	–
Hostname type	Instance type	Elastic IP addresses
–	t2.micro	–
Answer private resource DNS name	VPC ID	AWS Compute Optimizer finding
–	–	–
Auto-assigned IP address		

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Language

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