Autoscaling Groups

[Practical 06]

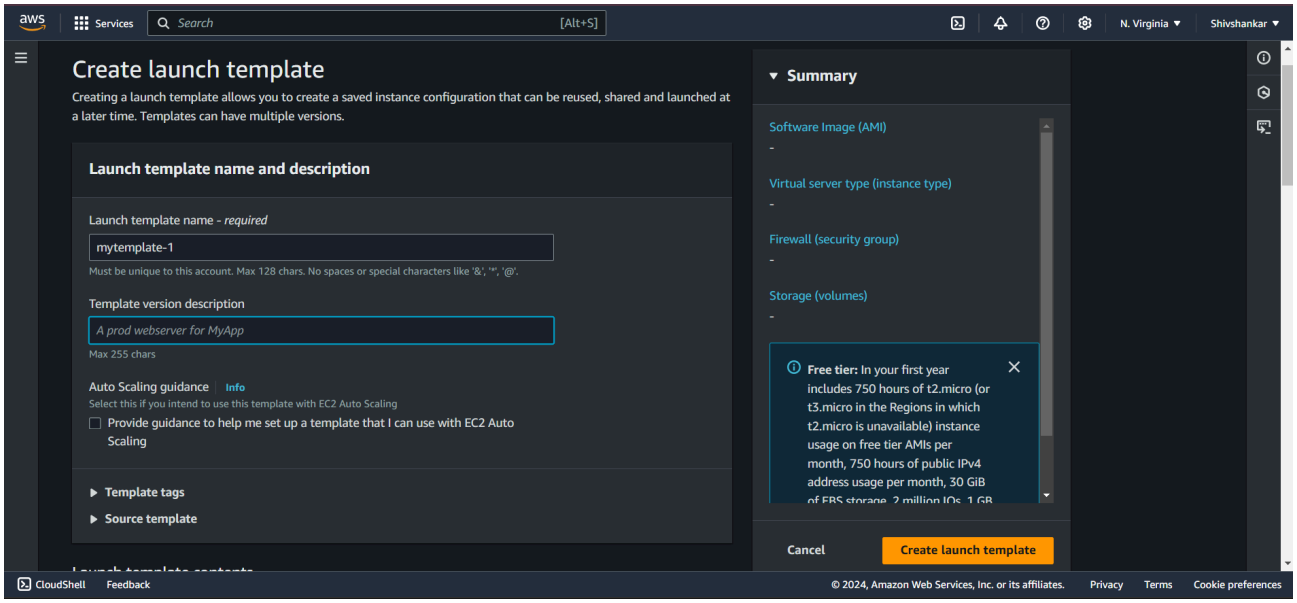
Name: Shivshankar Ghyar
PRN: 202201040031
Batch: CCF1

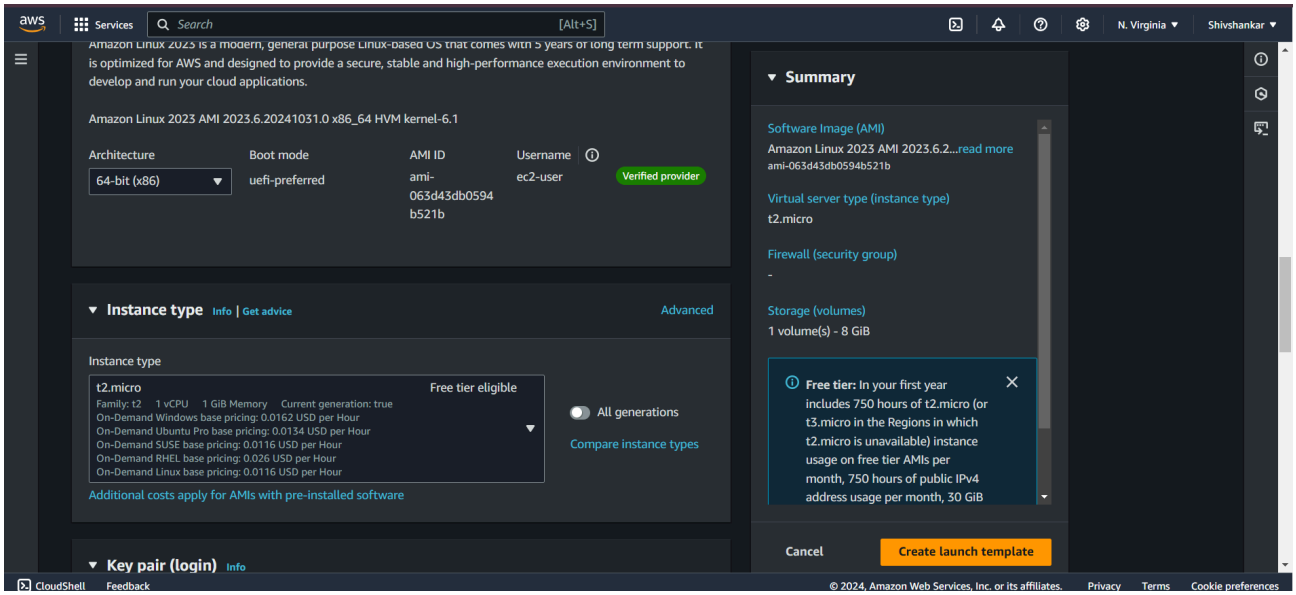
Problem Statement

Set up an Auto Scaling Group (ASG) in AWS that automatically adjusts the number of EC2 instances to maintain optimal performance based on CPU usage, ensuring high availability and cost efficiency.

Step1 : Create a Launch Template

Template name: mytemplate-1

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is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to develop and run your cloud applications.
Amazon Linux 2023 AMI 2023.6.20241031.0 x86_64 HVM kernel-6.1
Architecture
64-bit (x86)
Boot mode
uefi-preferred
AMI ID
ami-063d43db0594b521b
Username
ec2-user
Verified provider
Instance type Info | Get advice
Advanced
Instance type
t2.micro
Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0134 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour
On-Demand RHEL base pricing: 0.026 USD per Hour
On-Demand Linux base pricing: 0.0116 USD per Hour
All generations
Compare instance types
Additional costs apply for AMIs with pre-installed software
Key pair (login) Info
Summary
Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-063d43db0594b521b
Virtual server type (instance type)
t2.micro
Firewall (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 AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB
Cancel
Create launch template
CloudShell
Feedback
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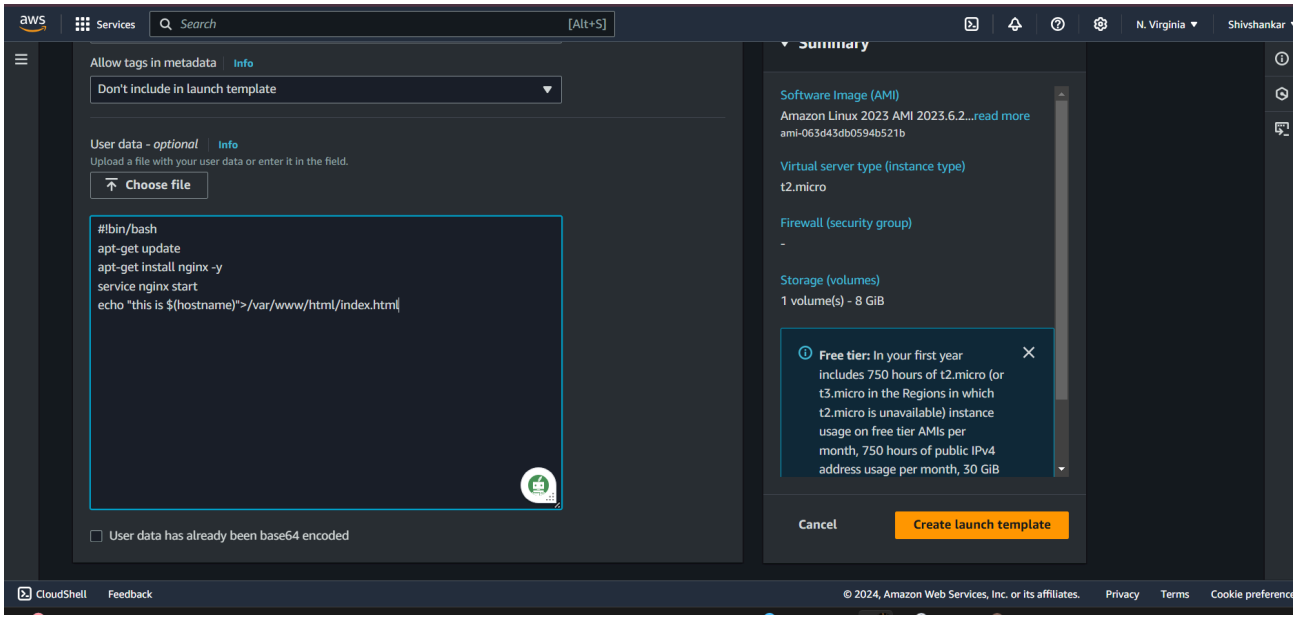
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Allow tags in metadata Info
Don't include in launch template
User data - optional Info
Upload a file with your user data or enter it in the field.
Choose file
#!bin/bash
apt-get update
apt-get install nginx -y
service nginx start
echo "this is $(hostname)">/var/www/html/index.html
User data has already been base64 encoded
Summary
Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-063d43db0594b521b
Virtual server type (instance type)
t2.micro
Firewall (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 AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB
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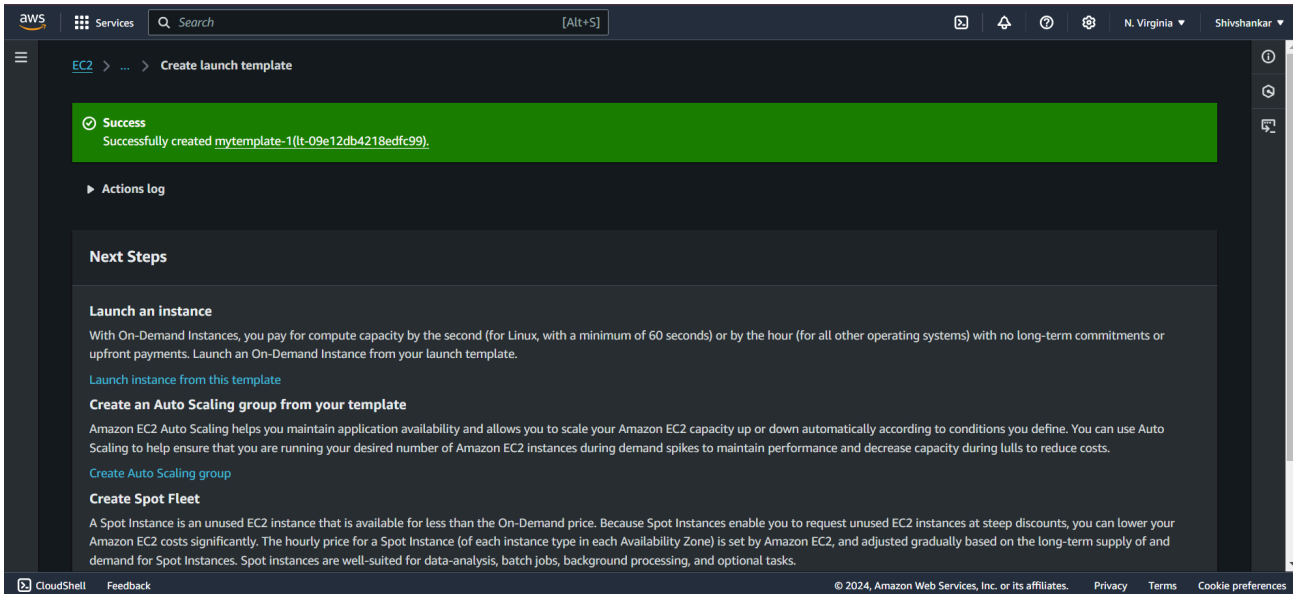
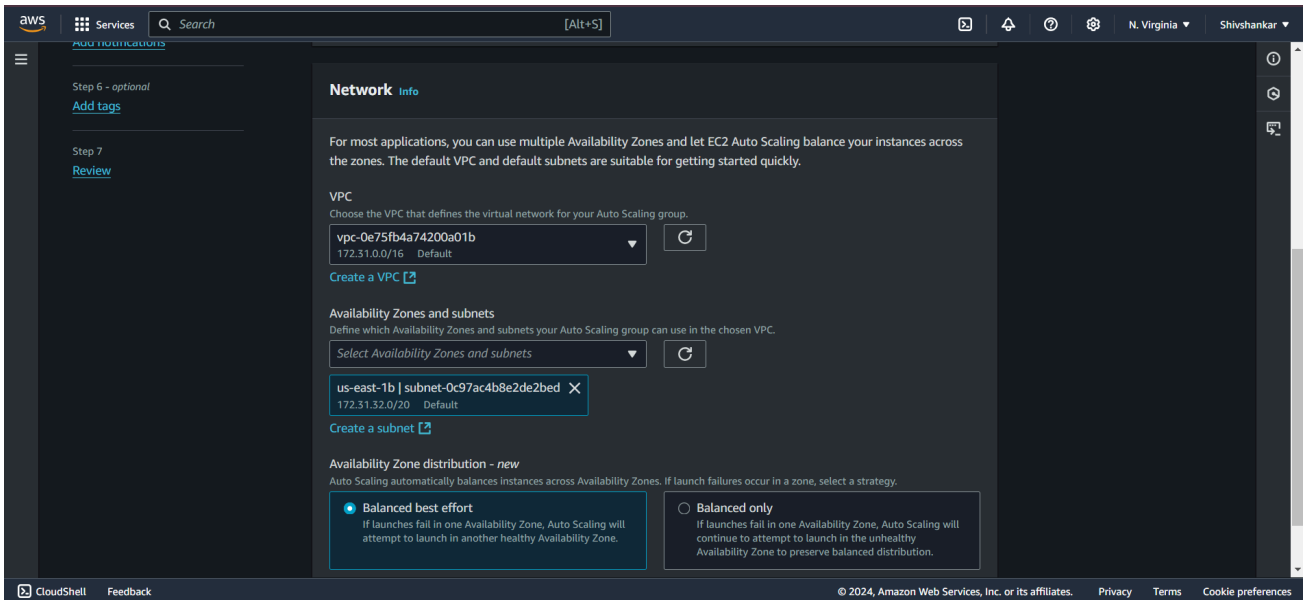
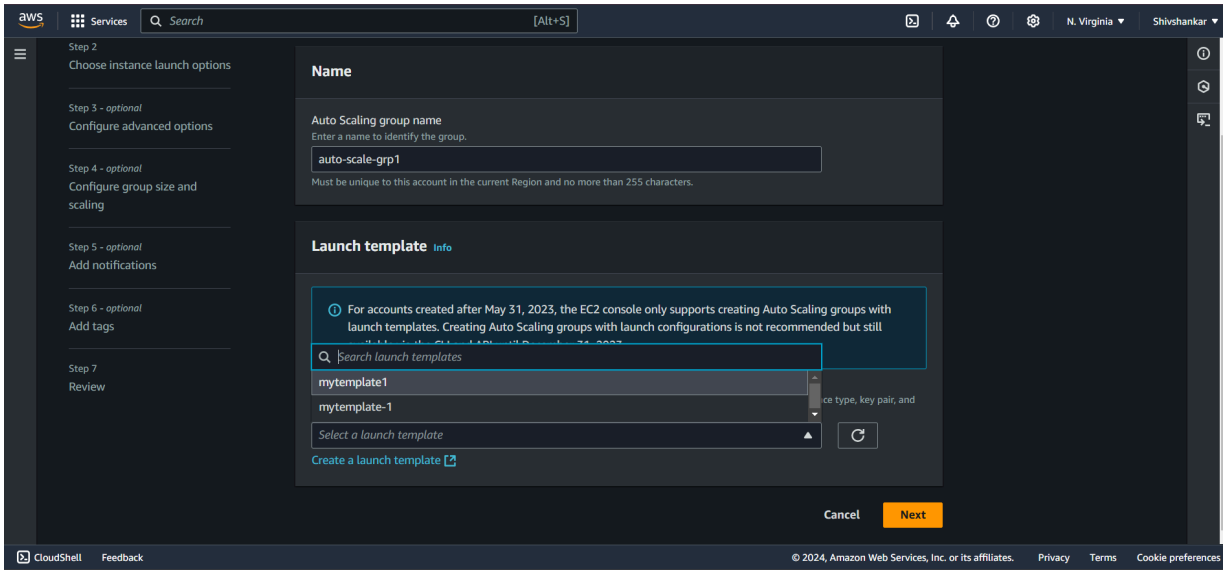


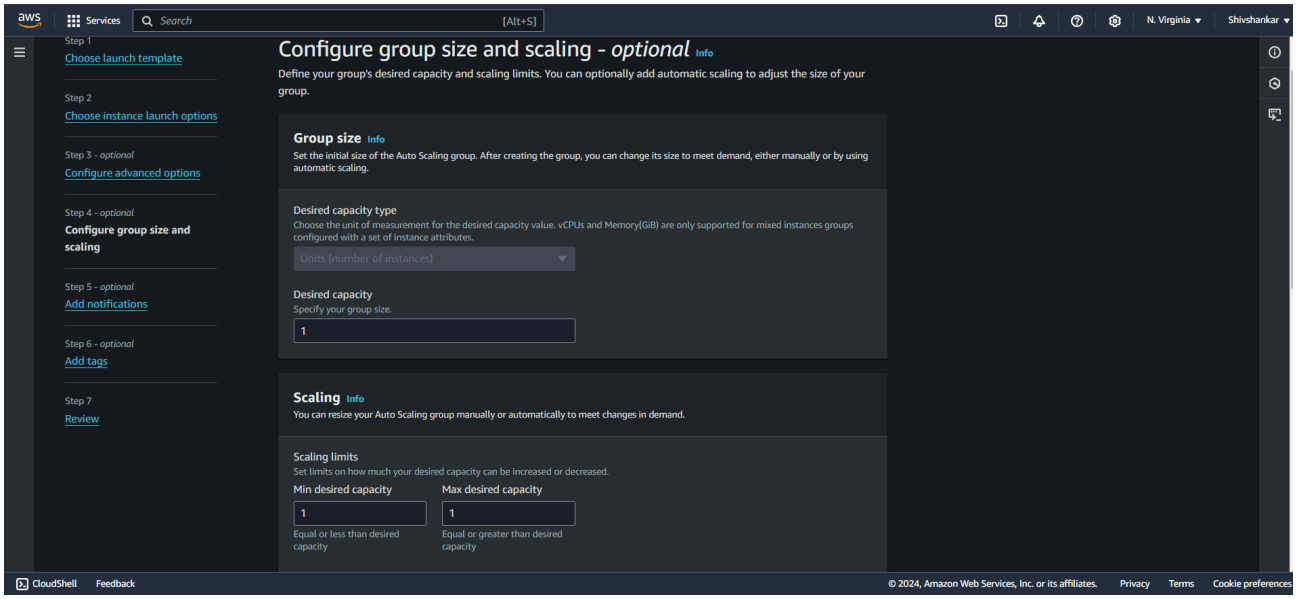
Step2 : Create a auto scaling group with a required settings

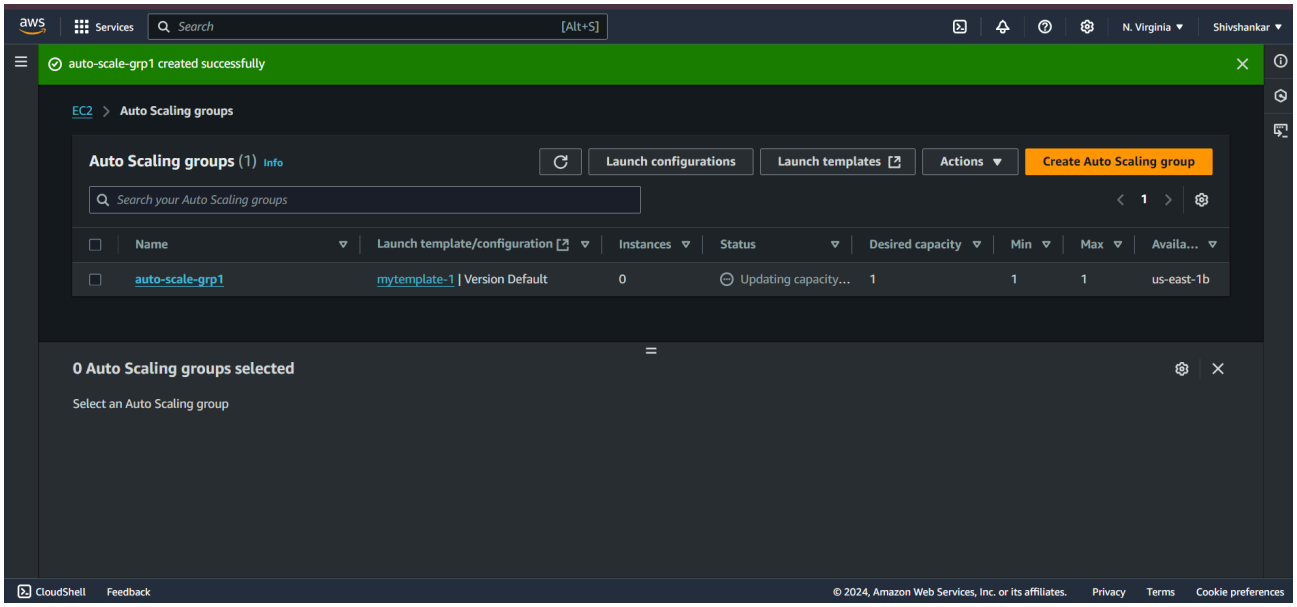
- ➔ Group name: auto-scale-grp1
- ➔ Choose template : mytemplate-1
- ➔ VPC
- ➔ Availbility zone & Subnet





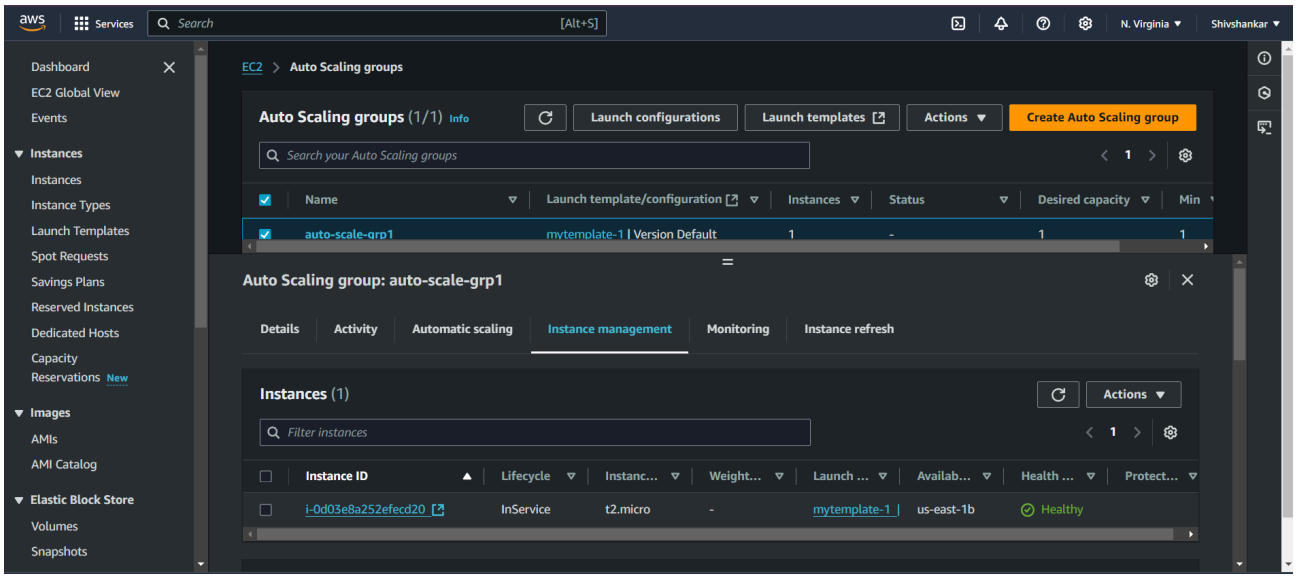
➔ At starting we will keep desired capacity as 1



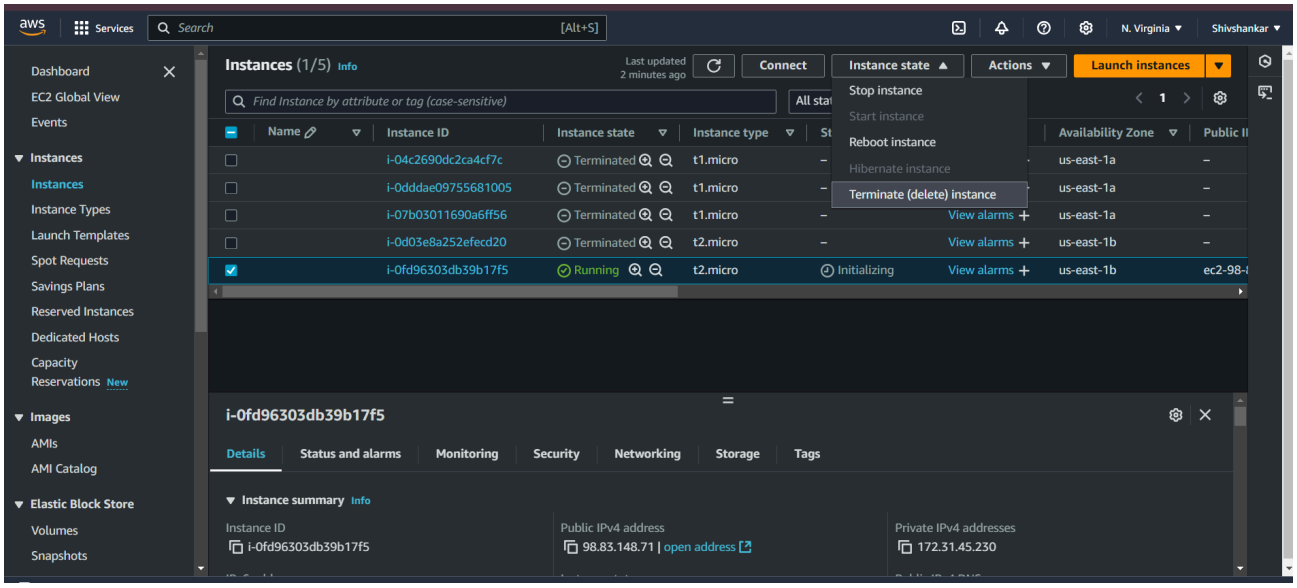


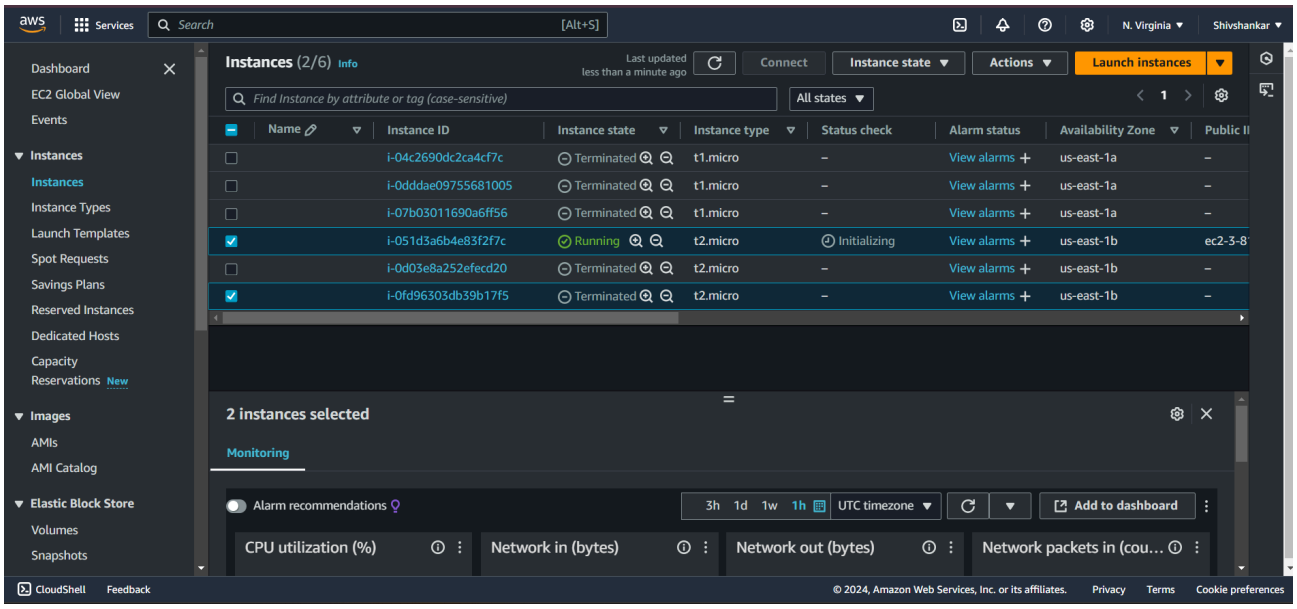
Step 3: Test the Auto Scaling Group

➔ This is the instance running having autoscaling grp with max desired capacity 1.
➔ Running instance is healthy



➔ If we terminate instance then automatically new instance will be created.





➔ If we change the desired capacity then instance number will be increased.