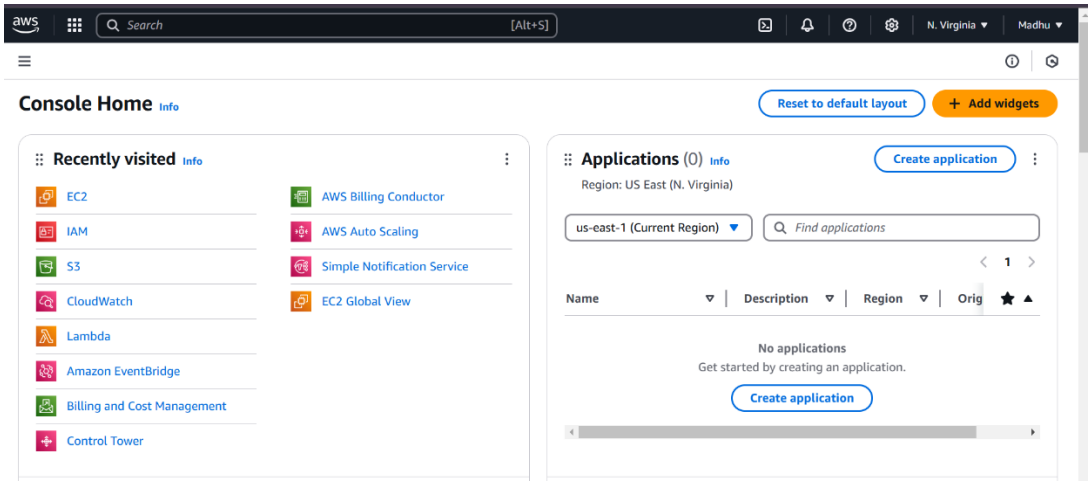
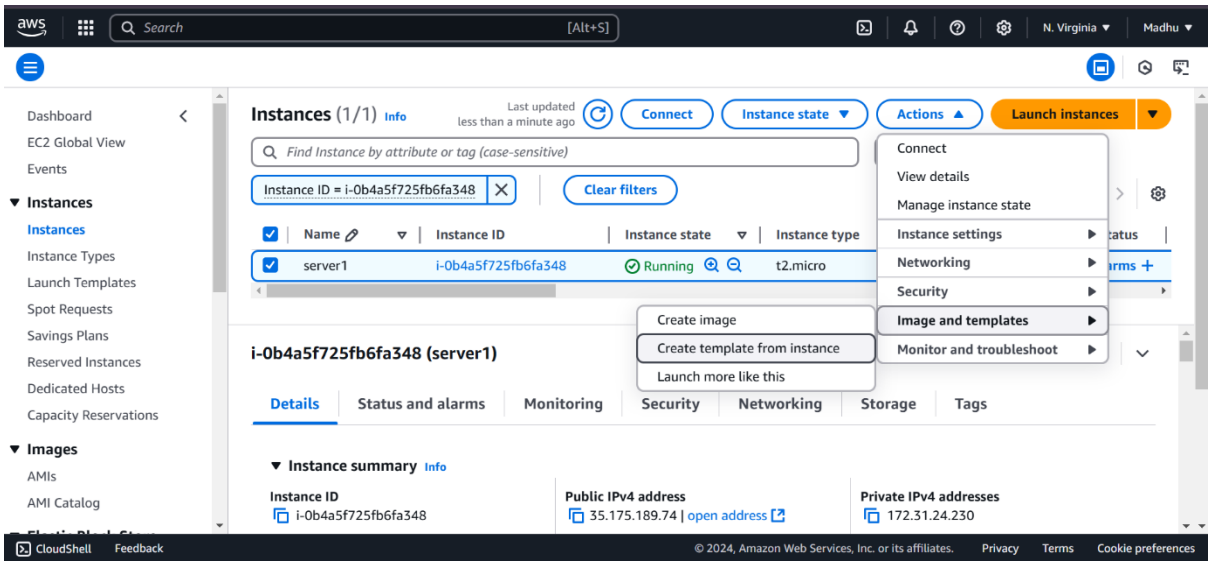
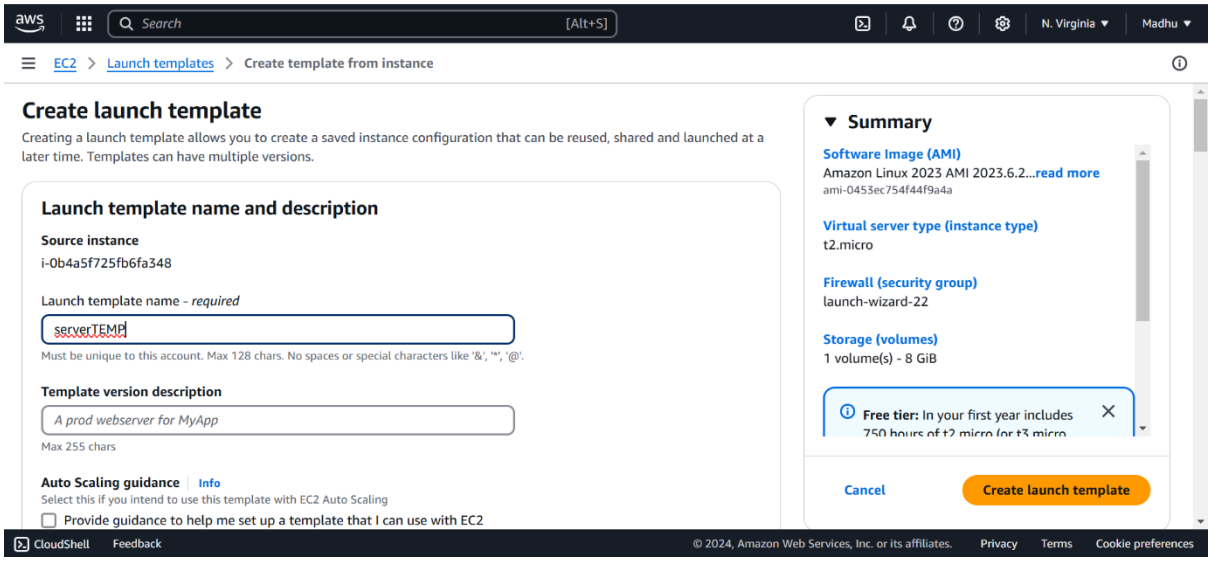
Auto-Scaling with EC2 Configure






Search [Alt+S]
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EC2 > Launch templates > Create template from instance
Create launch template
Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at a later time. Templates can have multiple versions.
Launch template name and description
Source instance
i-0b4a5f725fb6fa348
Launch template name - required
serverTEMP
Must be unique to this account. Max 128 chars. No spaces or special characters like '&', '*', '@'.
Template version description
A prod webserver for MyApp
Max 255 chars
Auto Scaling guidance Info
Select this if you intend to use this template with EC2 Auto Scaling
Provide guidance to help me set up a template that I can use with EC2
Summary
Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-0453ec754f44f9a4a
Virtual server type (instance type)
t2.micro
Firewall (security group)
launch-wizard-22
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes
Cancel
Create launch template
CloudShell
Feedback
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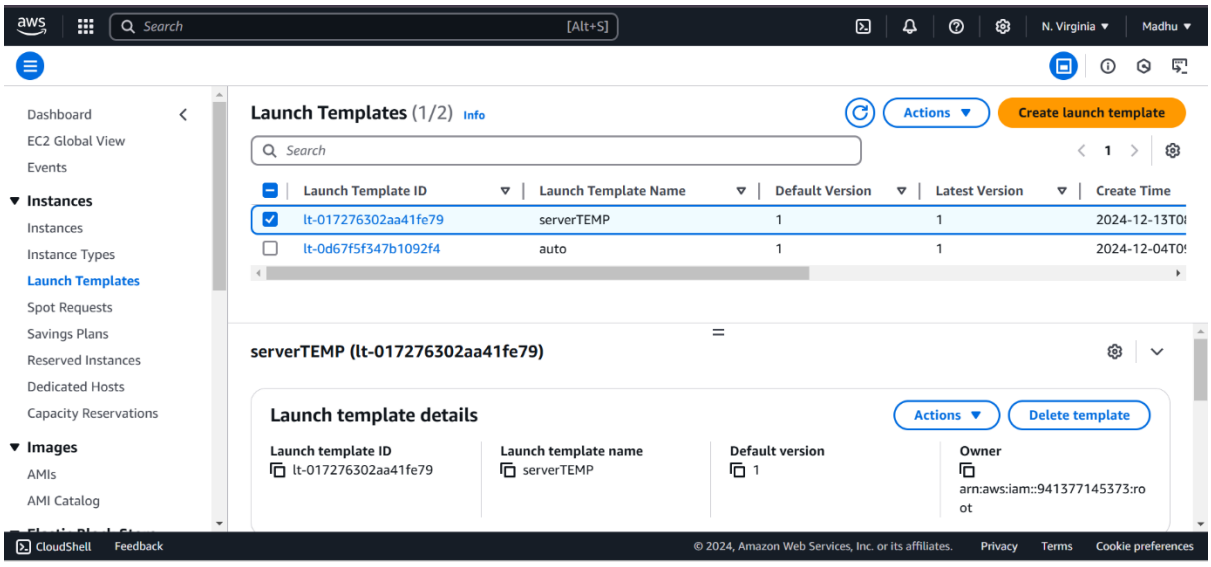
Search [Alt+S]
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Dashboard
EC2 Global View
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Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Launch Templates (1/2) Info
Actions
Create launch template
Search
Launch Template ID
Launch Template Name
Default Version
Latest Version
Create Time
lt-017276302aa41fe79
serverTEMP
1
1
lt-0d67f5f347b1092f4
auto
1
1
serverTEMP (lt-017276302aa41fe79)
Launch template details
Actions
Delete template
Launch template ID
lt-017276302aa41fe79
Launch template name
serverTEMP
Default version
1
Owner
arn:aws:iam::941377145373:root
CloudShell
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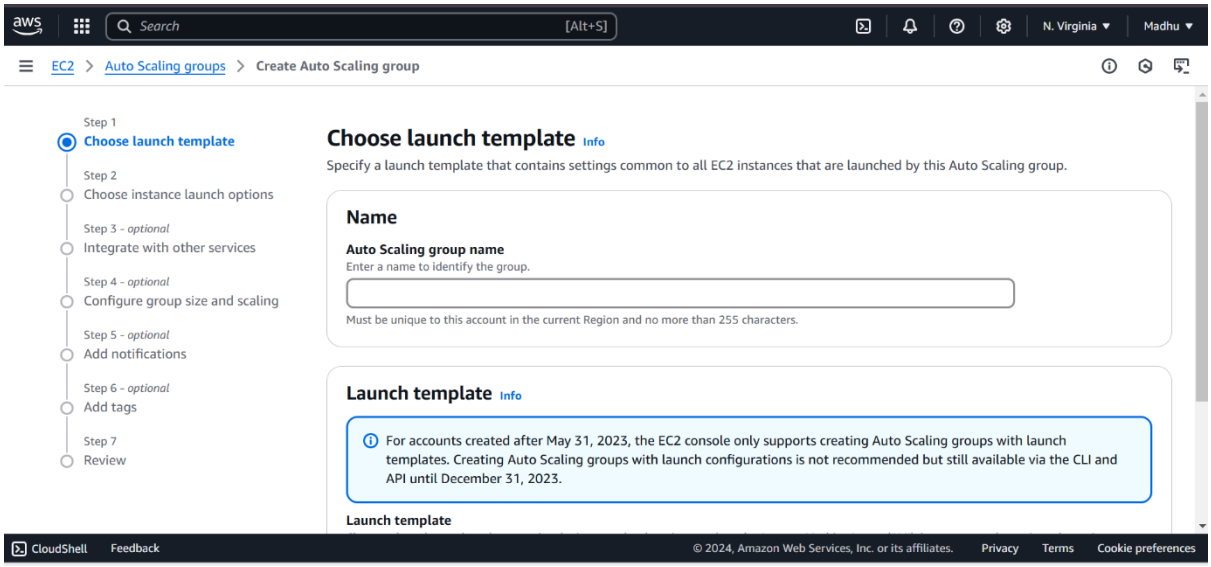
Search
[Alt+S]
N. Virginia
Madhu
EC2 > Auto Scaling groups > Create Auto Scaling group
Step 1
Choose launch template
Step 2
Choose instance launch options
Step 3 - optional
Integrate with other services
Step 4 - optional
Configure group size and scaling
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Choose launch template Info
Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group.
Name
Auto Scaling group name
Enter a name to identify the group.
Must be unique to this account in the current Region and no more than 255 characters.
Launch template Info
For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with launch templates. Creating Auto Scaling groups with launch configurations is not recommended but still available via the CLI and API until December 31, 2023.
Launch template
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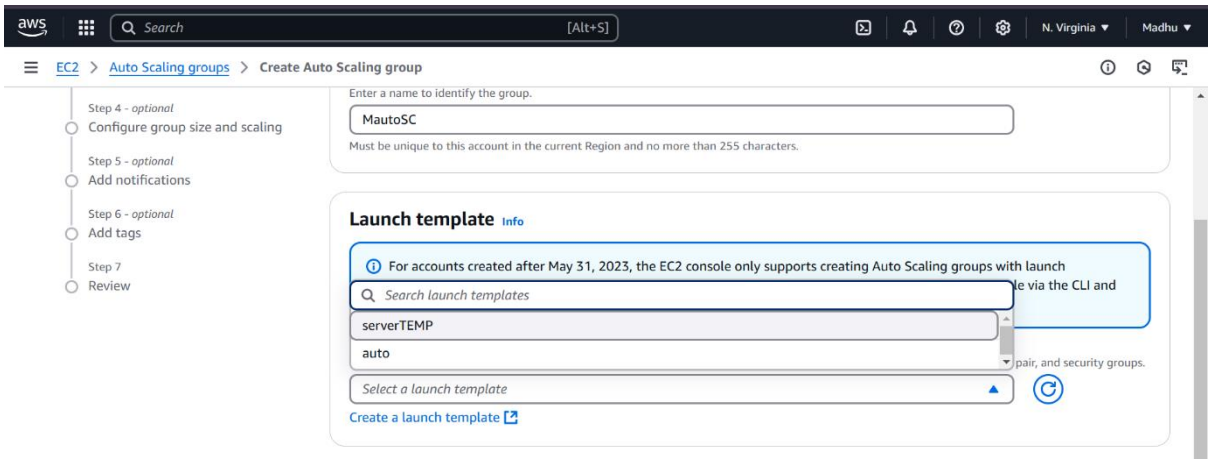
Search
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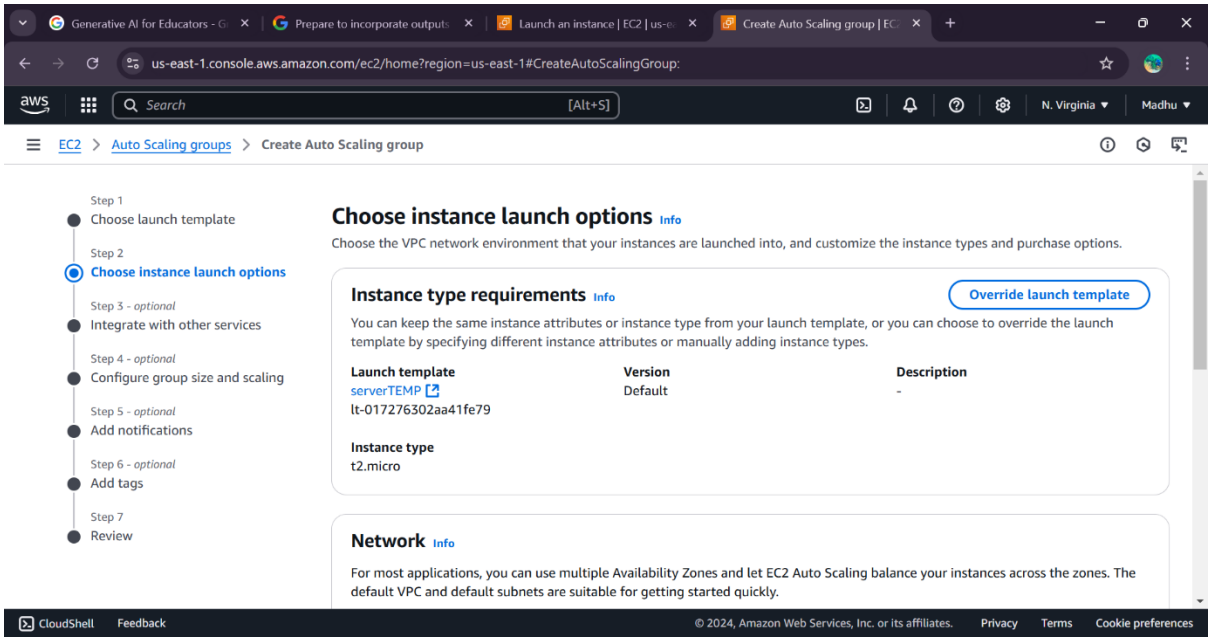
EC2 > Auto Scaling groups > Create Auto Scaling group
Step 4 - optional
Configure group size and scaling
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Enter a name to identify the group.
MautoSC
Must be unique to this account in the current Region and no more than 255 characters.
Launch template Info
For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with launch
Search launch templates
serverTEMP
auto
pair, and security groups.
Select a launch template
Create a launch template


Generative AI for Educators - G
Prepare to incorporate outputs
Launch an instance | EC2 | us-e
Create Auto Scaling group | EC
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
Search
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EC2 > Auto Scaling groups > Create Auto Scaling group
Step 1
Choose launch template
Step 2
Choose instance launch options
Step 3 - optional
Integrate with other services
Step 4 - optional
Configure group size and scaling
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Choose instance launch options Info
Choose the VPC network environment that your instances are launched into, and customize the instance types and purchase options.
Instance type requirements Info
Override launch template
You can keep the same instance attributes or instance type from your launch template, or you can choose to override the launch template by specifying different instance attributes or manually adding instance types.
Launch template
serverTEMP
lt-017276302aa41fe79
Version
Default
Description
-
Instance type
t2.micro
Network Info
For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.
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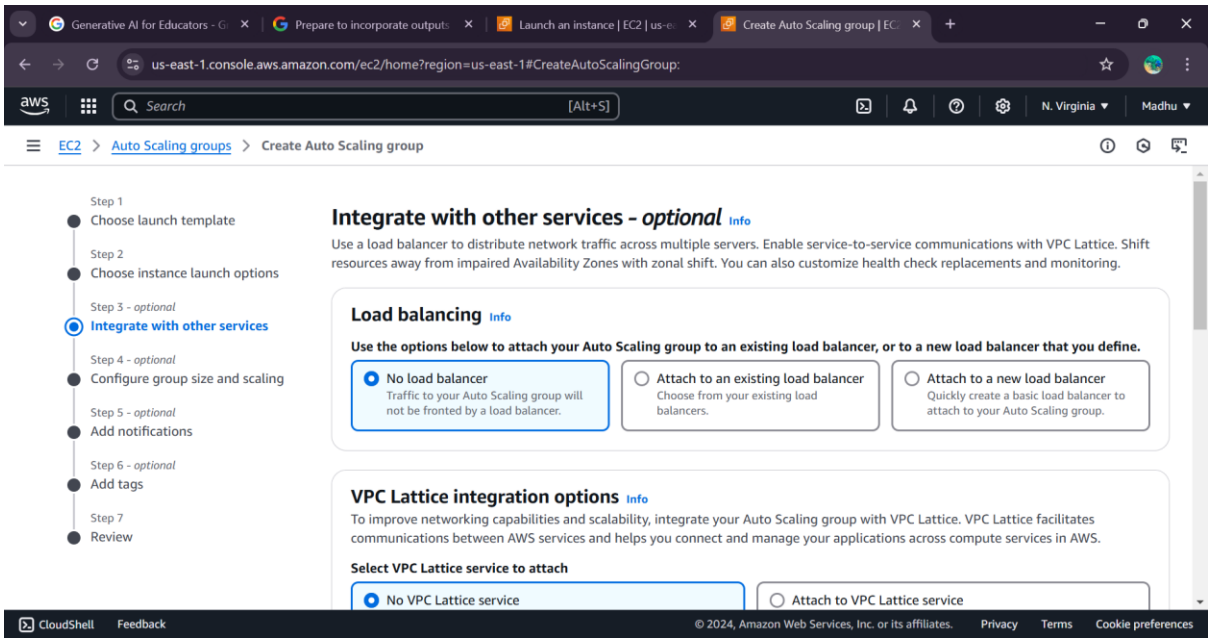
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Prepare to incorporate outputs
Launch an instance | EC2 | us-e
Create Auto Scaling group | EC
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
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EC2 > Auto Scaling groups > Create Auto Scaling group
Step 1
Choose launch template
Step 2
Choose instance launch options
Step 3 - optional
Integrate with other services
Step 4 - optional
Configure group size and scaling
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Integrate with other services - optional Info
Use a load balancer to distribute network traffic across multiple servers. Enable service-to-service communications with VPC Lattice. Shift resources away from impaired Availability Zones with zonal shift. You can also customize health check replacements and monitoring.
Load balancing Info
Use the options below to attach your Auto Scaling group to an existing load balancer, or to a new load balancer that you define.
No load balancer
Traffic to your Auto Scaling group will not be fronted by a load balancer.
Attach to an existing load balancer
Choose from your existing load balancers.
Attach to a new load balancer
Quickly create a basic load balancer to attach to your Auto Scaling group.
VPC Lattice integration options Info
To improve networking capabilities and scalability, integrate your Auto Scaling group with VPC Lattice. VPC Lattice facilitates communications between AWS services and helps you connect and manage your applications across compute services in AWS.
Select VPC Lattice service to attach
No VPC Lattice service
Attach to VPC Lattice service
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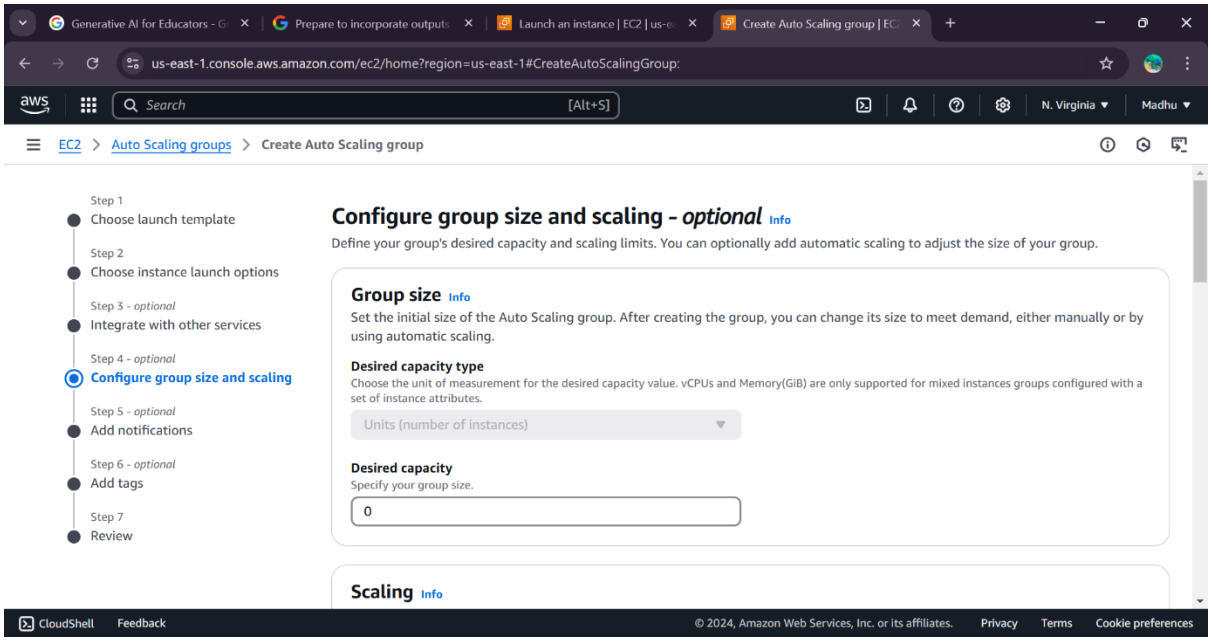
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Prepare to incorporate outputs
Launch an instance | EC2 | us-e
Create Auto Scaling group | EC
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
Search
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Auto Scaling groups
Create Auto Scaling group
Step 1
Choose launch template
Step 2
Choose instance launch options
Step 3 - optional
Integrate with other services
Step 4 - optional
Configure group size and scaling
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Configure group size and scaling - optional
Info
Define your group's desired capacity and scaling limits. You can optionally add automatic scaling to adjust the size of your group.
Group size
Info
Set the initial size of the Auto Scaling group. After creating the group, you can change its size to meet demand, either manually or by using automatic scaling.
Desired capacity type
Choose the unit of measurement for the desired capacity value. vCPUs and Memory(GiB) are only supported for mixed instances groups configured with a set of instance attributes.
Units (number of instances)
Desired capacity
Specify your group size.
0
Scaling
Info
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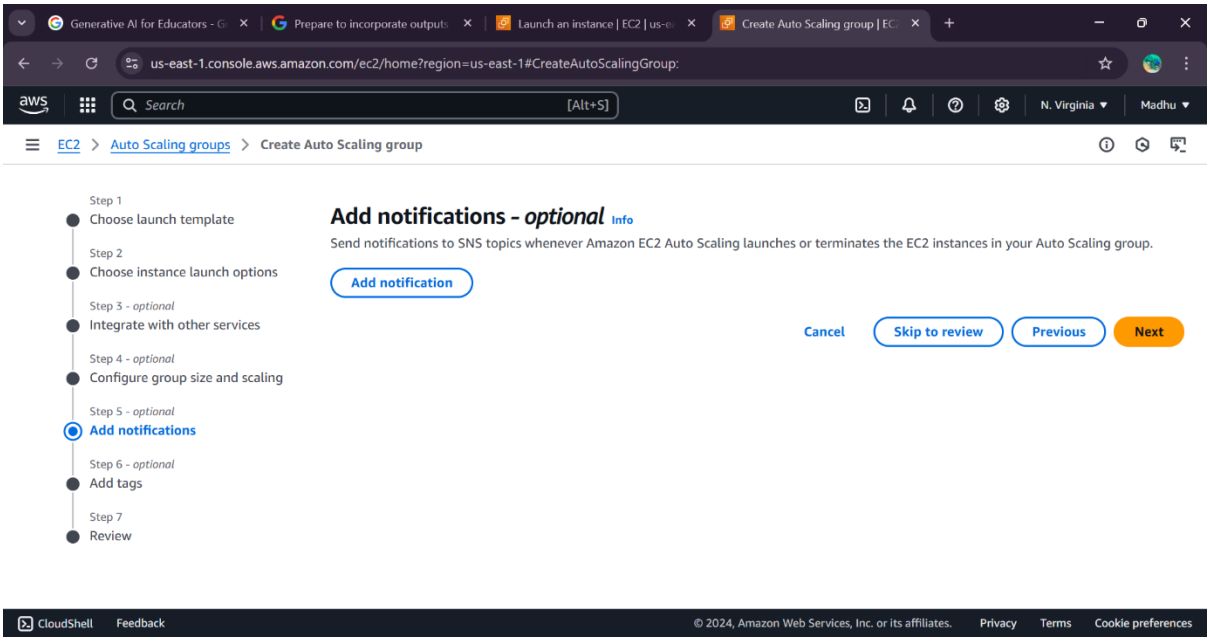
Generative AI for Educators - G
Prepare to incorporate outputs
Launch an instance | EC2 | us-e
Create Auto Scaling group | EC
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
Search
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Auto Scaling groups
Create Auto Scaling group
Step 1
Choose launch template
Step 2
Choose instance launch options
Step 3 - optional
Integrate with other services
Step 4 - optional
Configure group size and scaling
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Add notifications - optional
Info
Send notifications to SNS topics whenever Amazon EC2 Auto Scaling launches or terminates the EC2 instances in your Auto Scaling group.
Add notification
Cancel
Skip to review
Previous
Next
CloudShell
Feedback
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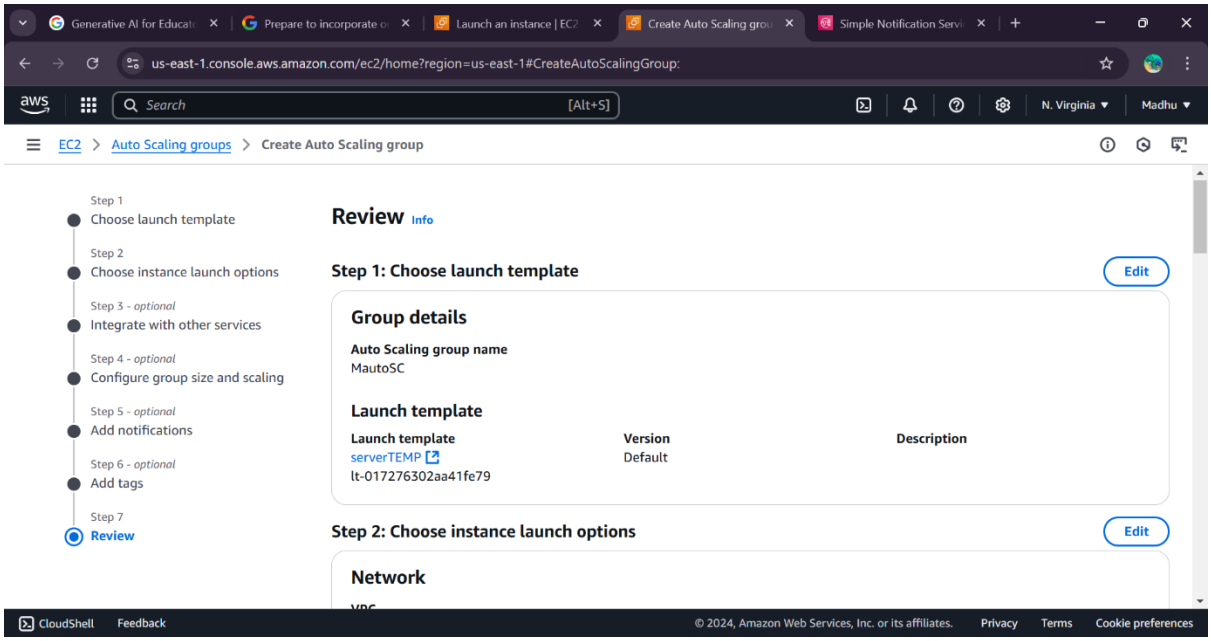
Generative AI for Educat
Prepare to incorporate
Launch an instance | EC2
Create Auto Scaling grou
Simple Notification Servi
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
Search
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EC2 > Auto Scaling groups > Create Auto Scaling group
Step 1
Choose launch template
Step 2
Choose instance launch options
Step 3 - optional
Integrate with other services
Step 4 - optional
Configure group size and scaling
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Review Info
Step 1: Choose launch template
Edit
Group details
Auto Scaling group name
MautoSC
Launch template
Launch template
serverTEMP
lt-017276302aa41fe79
Version
Default
Description
Step 2: Choose instance launch options
Edit
Network
CloudShell
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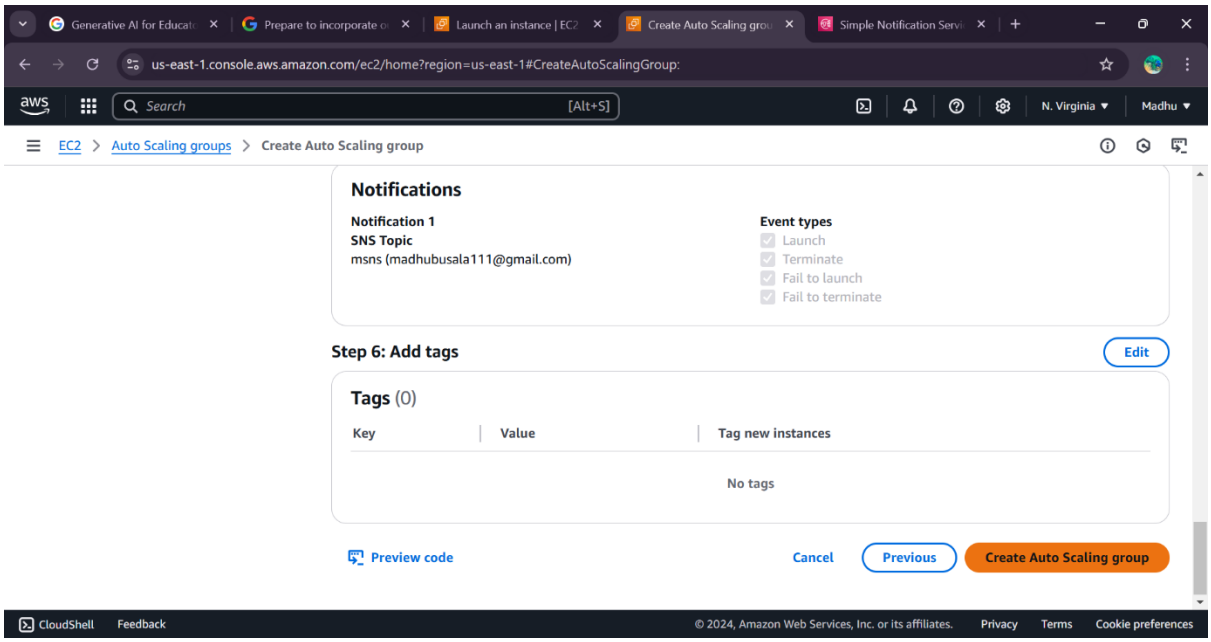
Generative AI for Educat
Prepare to incorporate
Launch an instance | EC2
Create Auto Scaling grou
Simple Notification Servi
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
Search
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EC2 > Auto Scaling groups > Create Auto Scaling group
Notifications
Notification 1
SNS Topic
msns (madhubusala111@gmail.com)
Event types
Launch
Terminate
Fail to launch
Fail to terminate
Step 6: Add tags
Edit
Tags (0)
Key
Value
Tag new instances
No tags
Preview code
Cancel
Previous
Create Auto Scaling group
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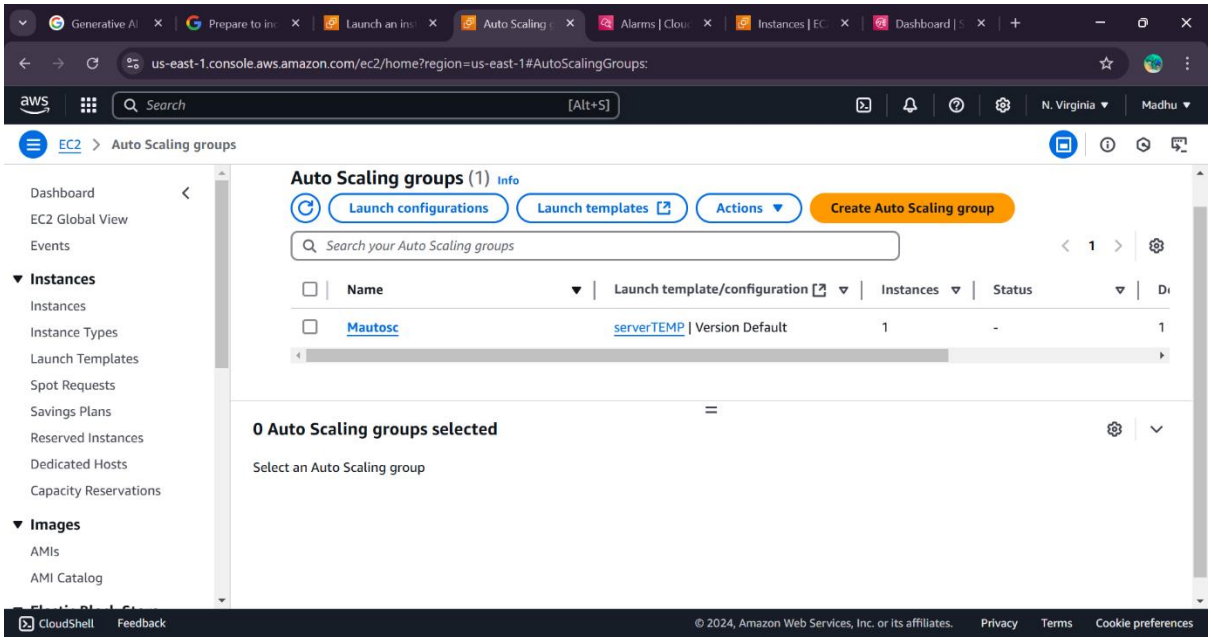
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroups:
Search
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EC2 > Auto Scaling groups
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Instances
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Images
AMIs
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Auto Scaling groups (1) Info
Launch configurations
Launch templates
Actions
Create Auto Scaling group
Search your Auto Scaling groups
Name
Launch template/configuration
Instances
Status
Mautosc
serverTEMP | Version Default
1
-
1
0 Auto Scaling groups selected
Select an Auto Scaling group
CloudShell
Feedback
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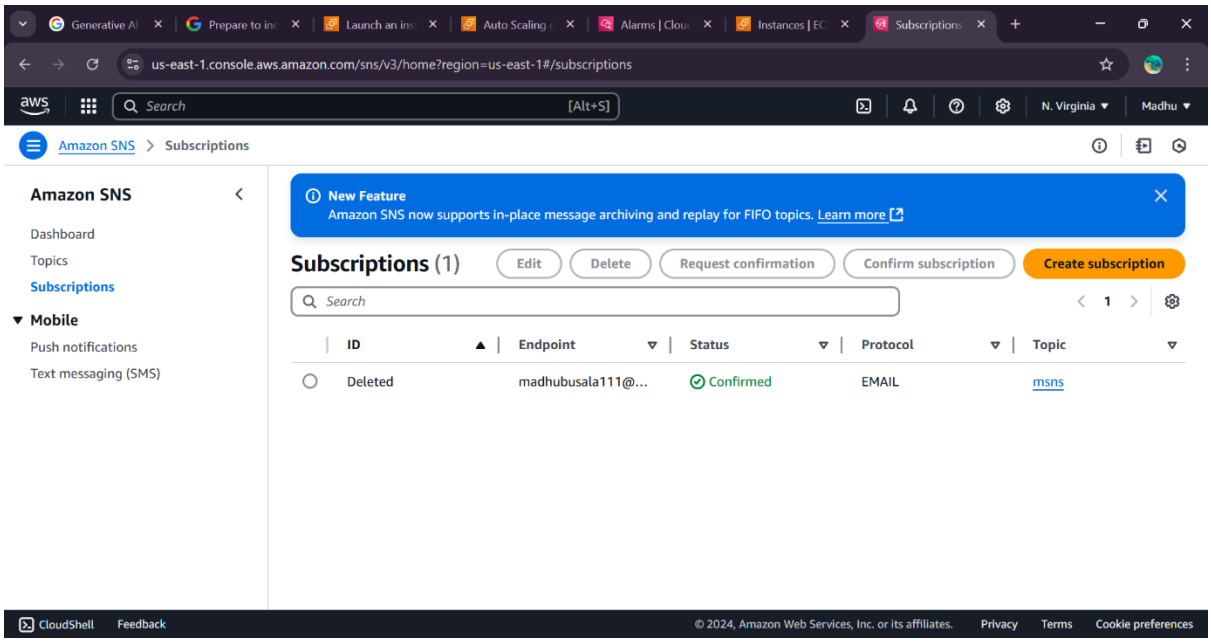
us-east-1.console.aws.amazon.com/sns/v3/home?region=us-east-1#/subscriptions
Search
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Amazon SNS > Subscriptions
Amazon SNS
Dashboard
Topics
Subscriptions
Mobile
Push notifications
Text messaging (SMS)
New Feature
Amazon SNS now supports in-place message archiving and replay for FIFO topics. Learn more
Subscriptions (1)
Edit
Delete
Request confirmation
Confirm subscription
Create subscription
Search
ID
Endpoint
Status
Protocol
Topic
Deleted
madhubusala111@...
Confirmed
EMAIL
msns
CloudShell
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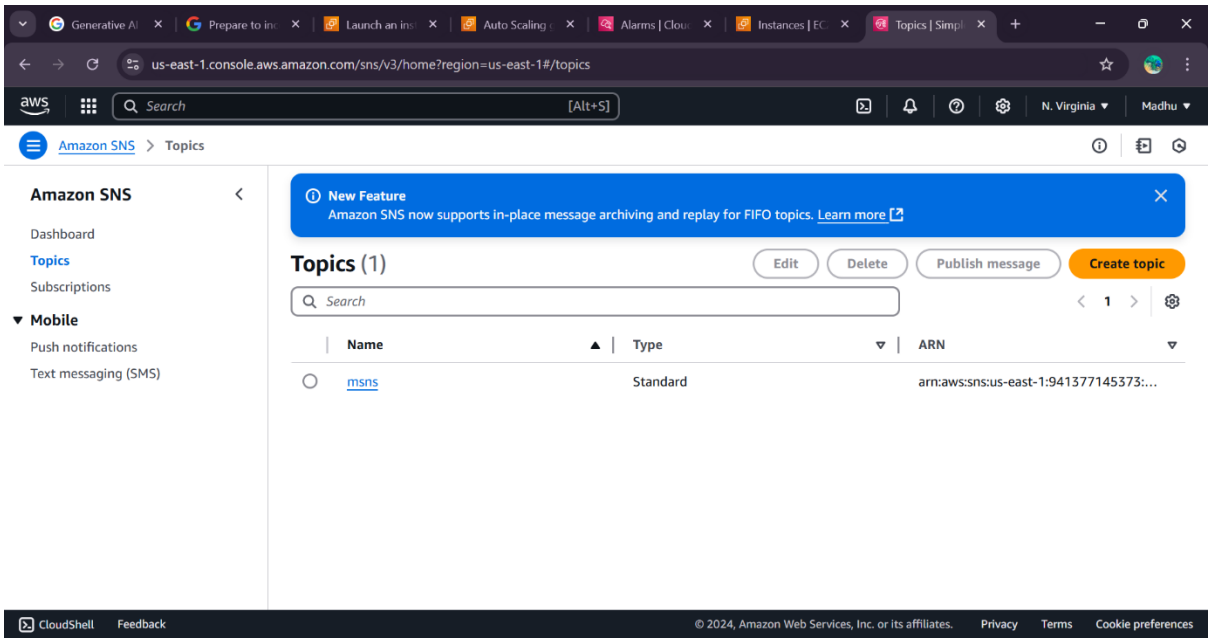
us-east-1.console.aws.amazon.com/sns/v3/home?region=us-east-1#/topics
Search
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Amazon SNS > Topics
Amazon SNS
Dashboard
Topics
Subscriptions
Mobile
Push notifications
Text messaging (SMS)
New Feature
Amazon SNS now supports in-place message archiving and replay for FIFO topics. Learn more
Topics (1)
Edit
Delete
Publish message
Create topic
Search
Name
Type
ARN
msns
Standard
arn:aws:sns:us-east-1:941377145373:...
CloudShell
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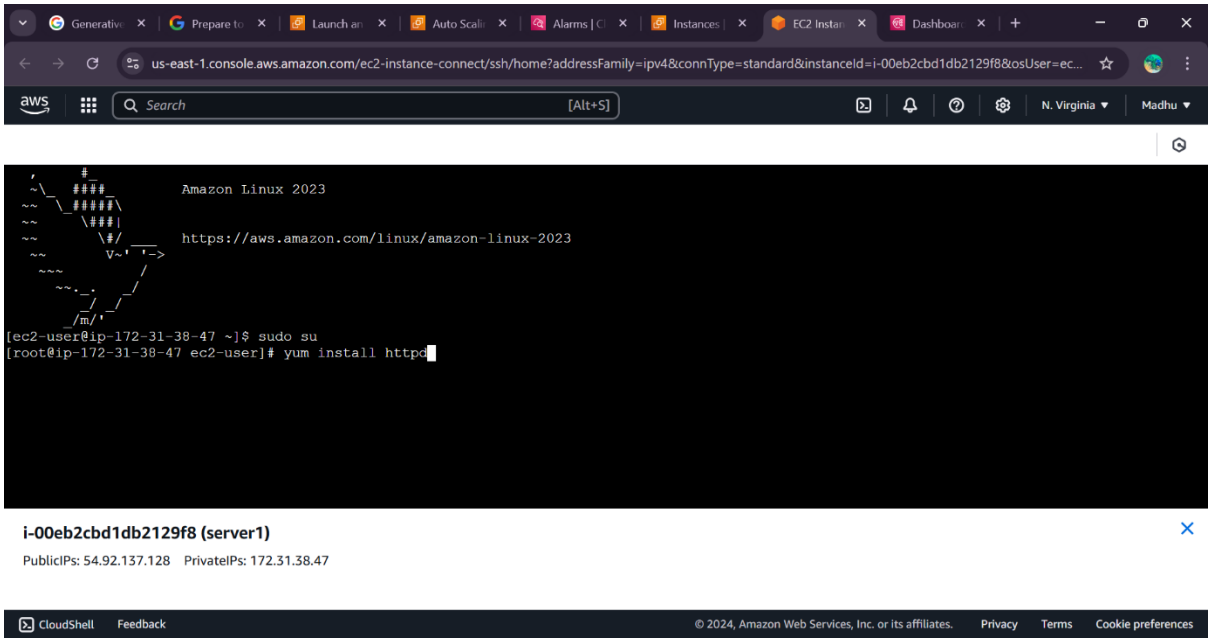
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-00eb2cbd1db2129f8&osUser=ec...
Search
[Alt+S]
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Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-172-31-38-47 ~]$ sudo su
[root@ip-172-31-38-47 ec2-user]# yum install httpd
i-00eb2cbd1db2129f8 (server1)
PublicIPs: 54.92.137.128 PrivateIPs: 172.31.38.47
CloudShell
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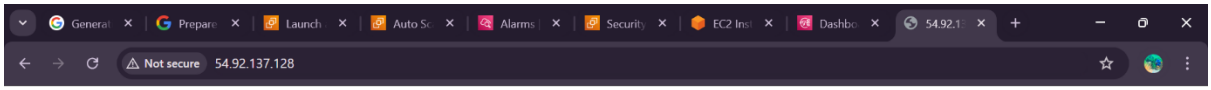
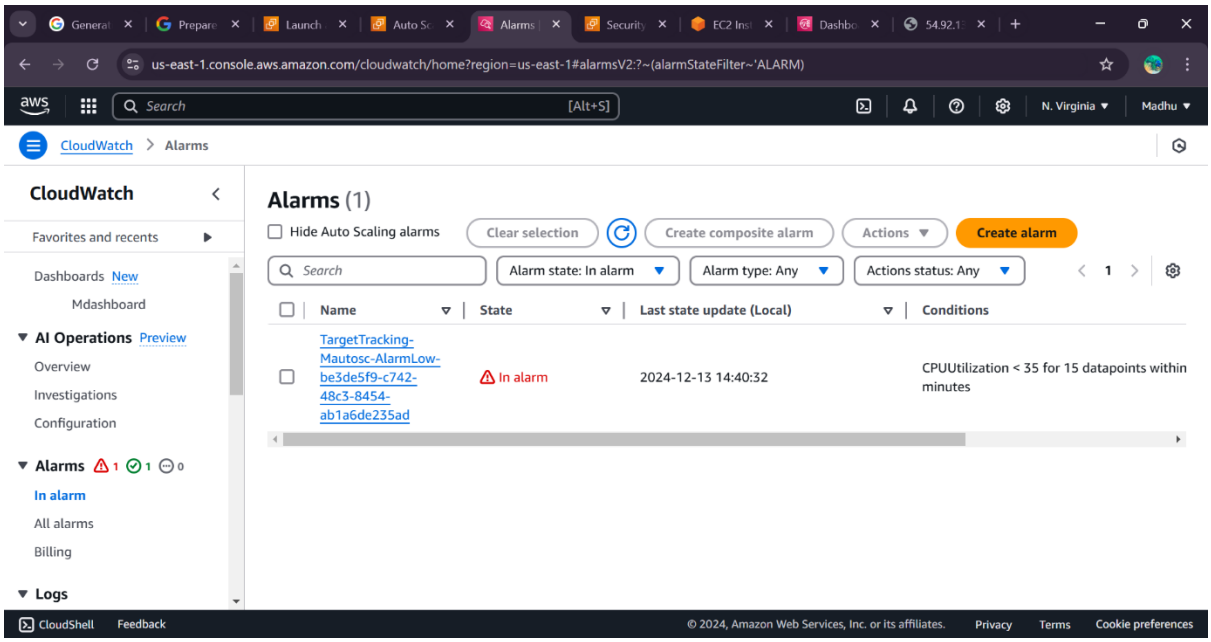

Not secure
54.92.137.128

It works!


us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:?~(alarmStateFilter~'ALARM)
Search
[Alt+S]
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CloudWatch
Favorites and recents
Dashboards New
Mdashboard
AI Operations Preview
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All alarms
Billing
Logs
Alarms (1)
Hide Auto Scaling alarms
Clear selection
Create composite alarm
Actions
Create alarm
Search
Alarm state: In alarm
Alarm type: Any
Actions status: Any
1
Name
State
Last state update (Local)
Conditions
TargetTracking-Mautosc-AlarmLow-be3de5f9-c742-48c3-8454-ab1a6de235ad
In alarm
2024-12-13 14:40:32
CPUUtilization < 35 for 15 datapoints within minutes
CloudShell
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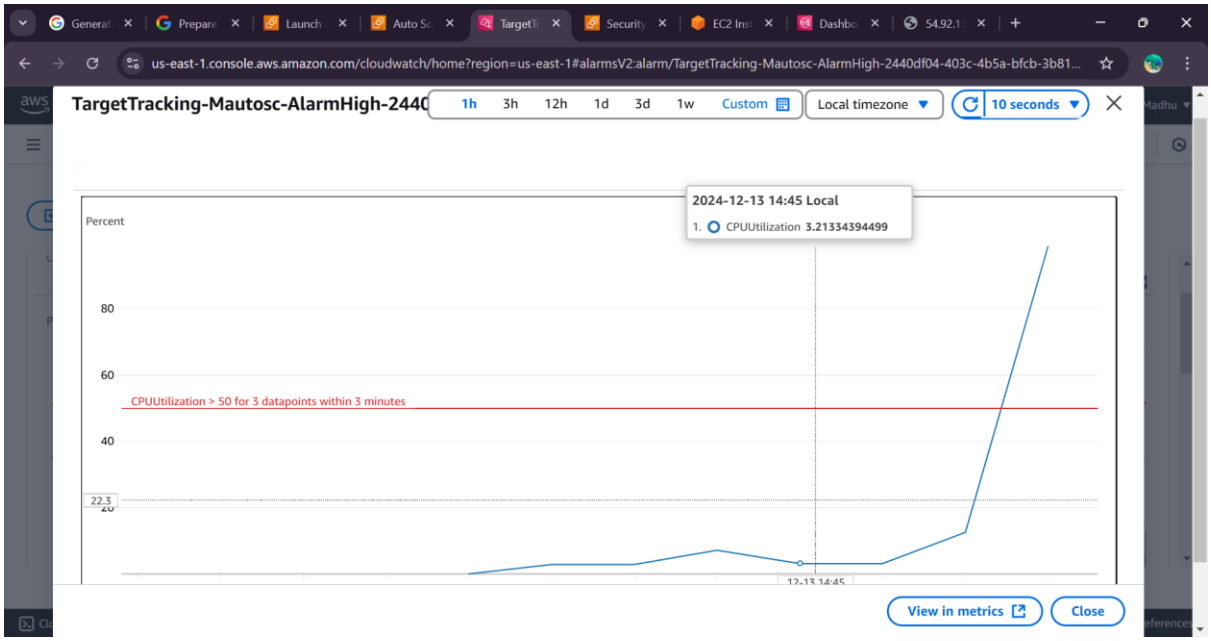
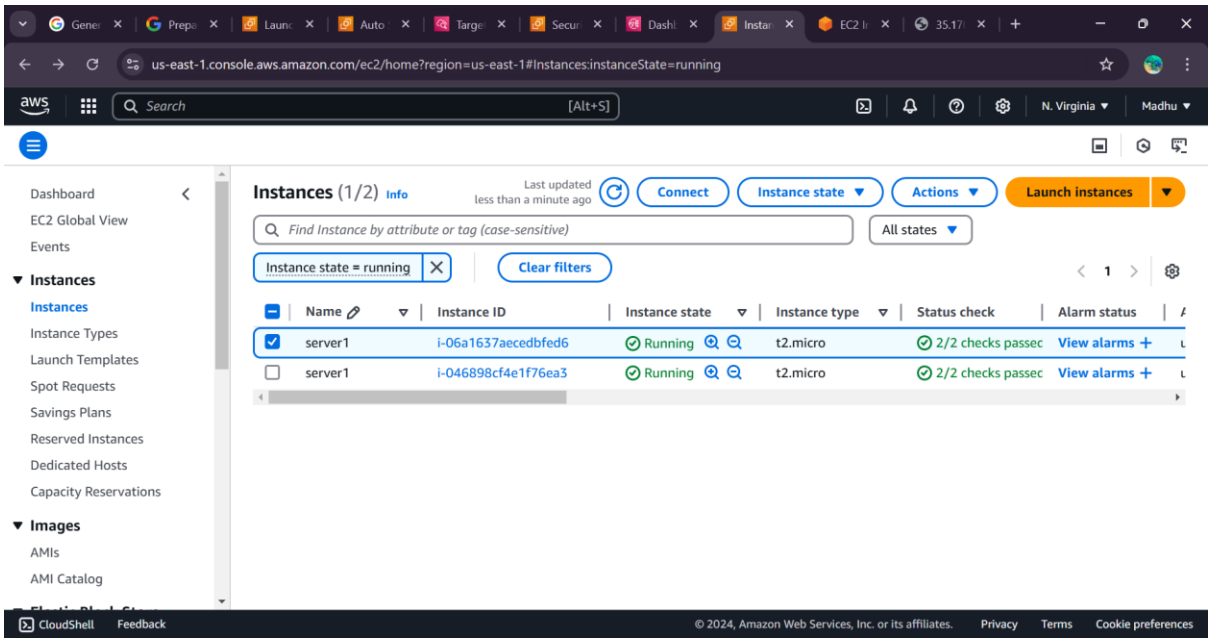

us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:alarm/TargetTracking-Mautosc-AlarmHigh-2440df04-403c-4b5a-bfcb-3b81...
TargetTracking-Mautosc-AlarmHigh-244
1h
3h
12h
1d
3d
1w
Custom
Local timezone
10 seconds
2024-12-13 14:45 Local
1. CPUUtilization 3.21334394499
Percent
80
60
CPUUtilization > 50 for 3 datapoints within 3 minutes
40
22.3
View in metrics
Close


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceState=running
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Instances (1/2) Info
Last updated less than a minute ago
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
server1
i-06a1637aecedbfed6
Running
t2.micro
2/2 checks passec
View alarms
server1
i-046898cf4e1f76ea3
Running
t2.micro
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