ELB Assignment-2

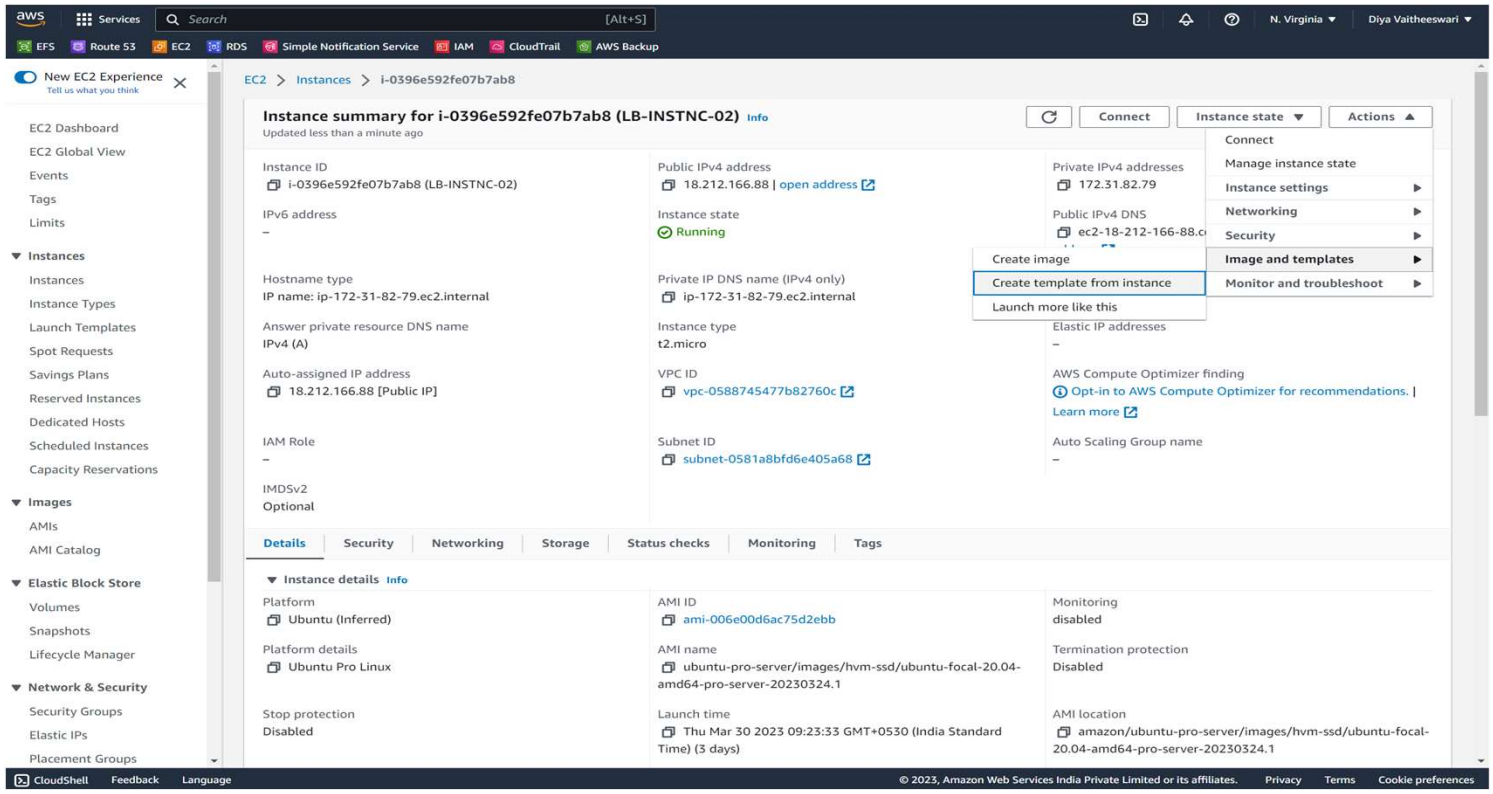
1. Create a Web Server AMI with Apache 2 server running in it
2. Create a Launch Configuration with this AMI
3. Use this Launch Configuration to create an Auto Scaling group with

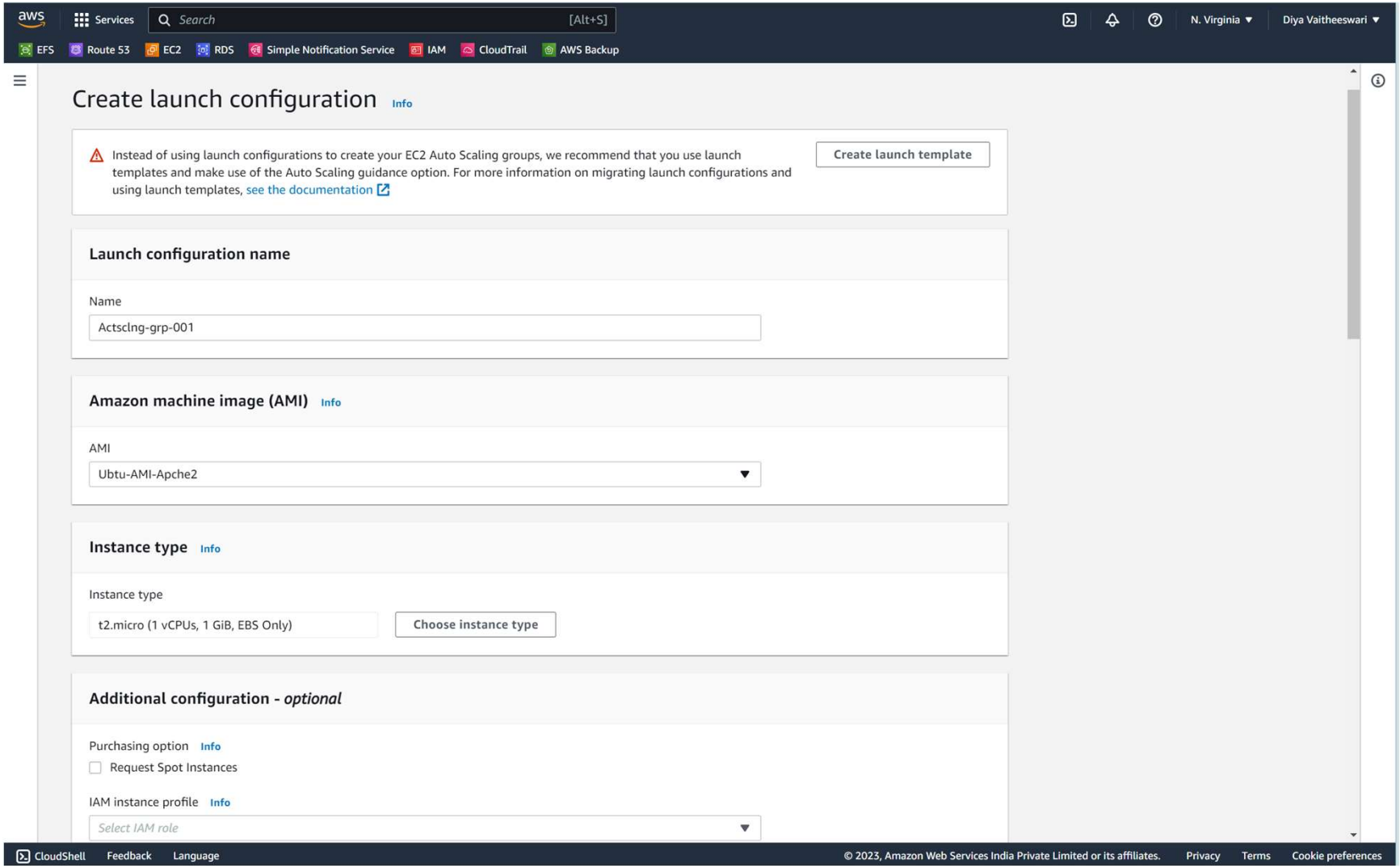
   1 minimum and 3 maximum instances

Solution:

Step – 1 :

Create a launch instance template using apache2 web server running .

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Create launch configuration
Info
Instead of using launch configurations to create your EC2 Auto Scaling groups, we recommend that you use launch templates and make use of the Auto Scaling guidance option. For more information on migrating launch configurations and using launch templates, see the documentation
Create launch template
Launch configuration name
Name
Actsclng-grp-001
Amazon machine image (AMI)
Info
AMI
Ubtu-AMI-Apche2
Instance type
Info
Instance type
t2.micro (1 vCPUs, 1 GiB, EBS Only)
Choose instance type
Additional configuration - optional
Purchasing option
Info
Request Spot Instances
IAM instance profile
Info
Select IAM role
CloudShell
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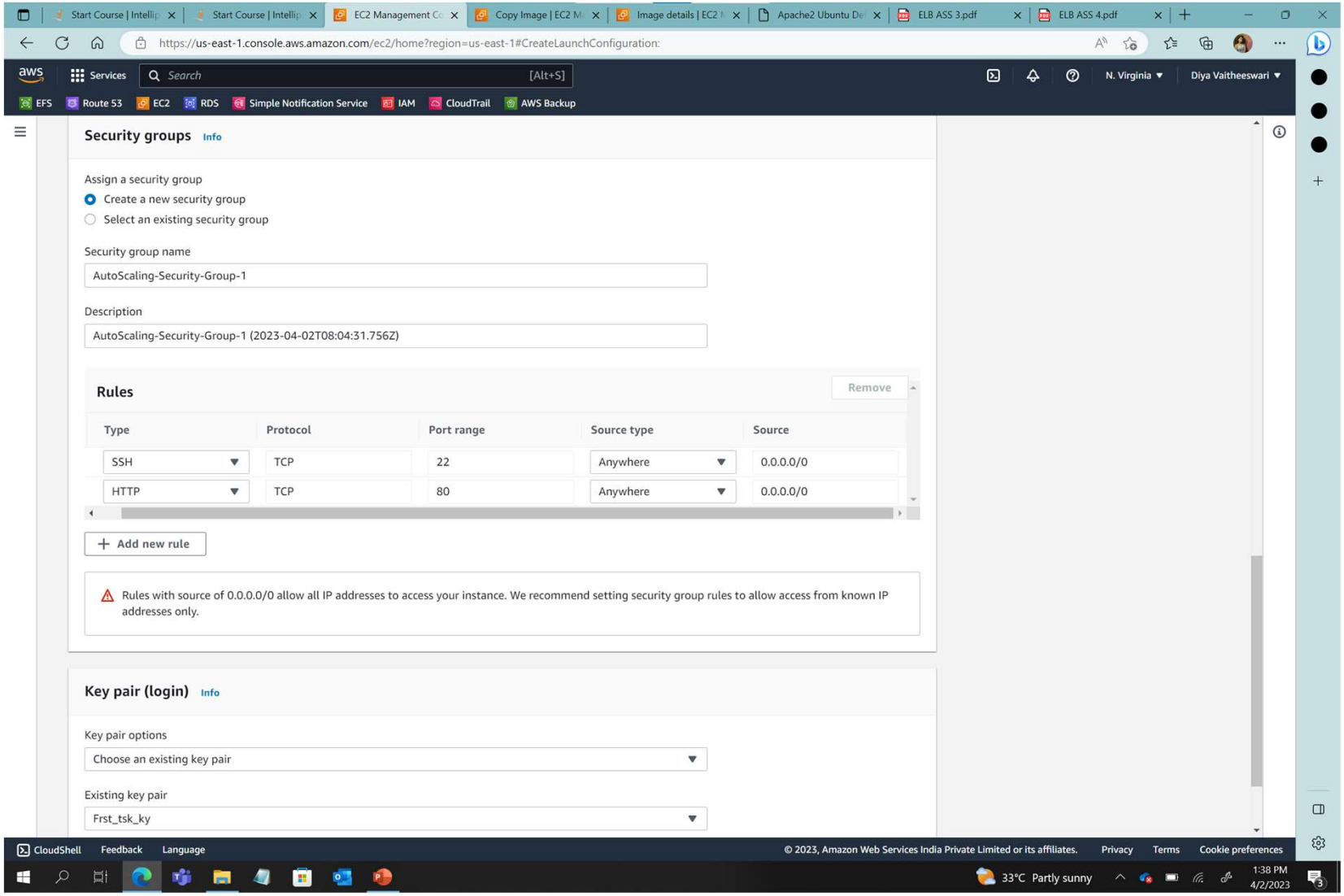
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Image details | EC2 M
Apache2 Ubuntu De
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ELB ASS 4.pdf
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateLaunchConfiguration:
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Security groups Info
Assign a security group
Create a new security group
Select an existing security group
Security group name
AutoScaling-Security-Group-1
Description
AutoScaling-Security-Group-1 (2023-04-02T08:04:31.756Z)
Rules
Remove
Type
Protocol
Port range
Source type
Source
SSH
TCP
22
Anywhere
0.0.0.0/0
HTTP
TCP
80
Anywhere
0.0.0.0/0
Add new rule
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.
Key pair (login) Info
Key pair options
Choose an existing key pair
Existing key pair
Frst_tsk_ky
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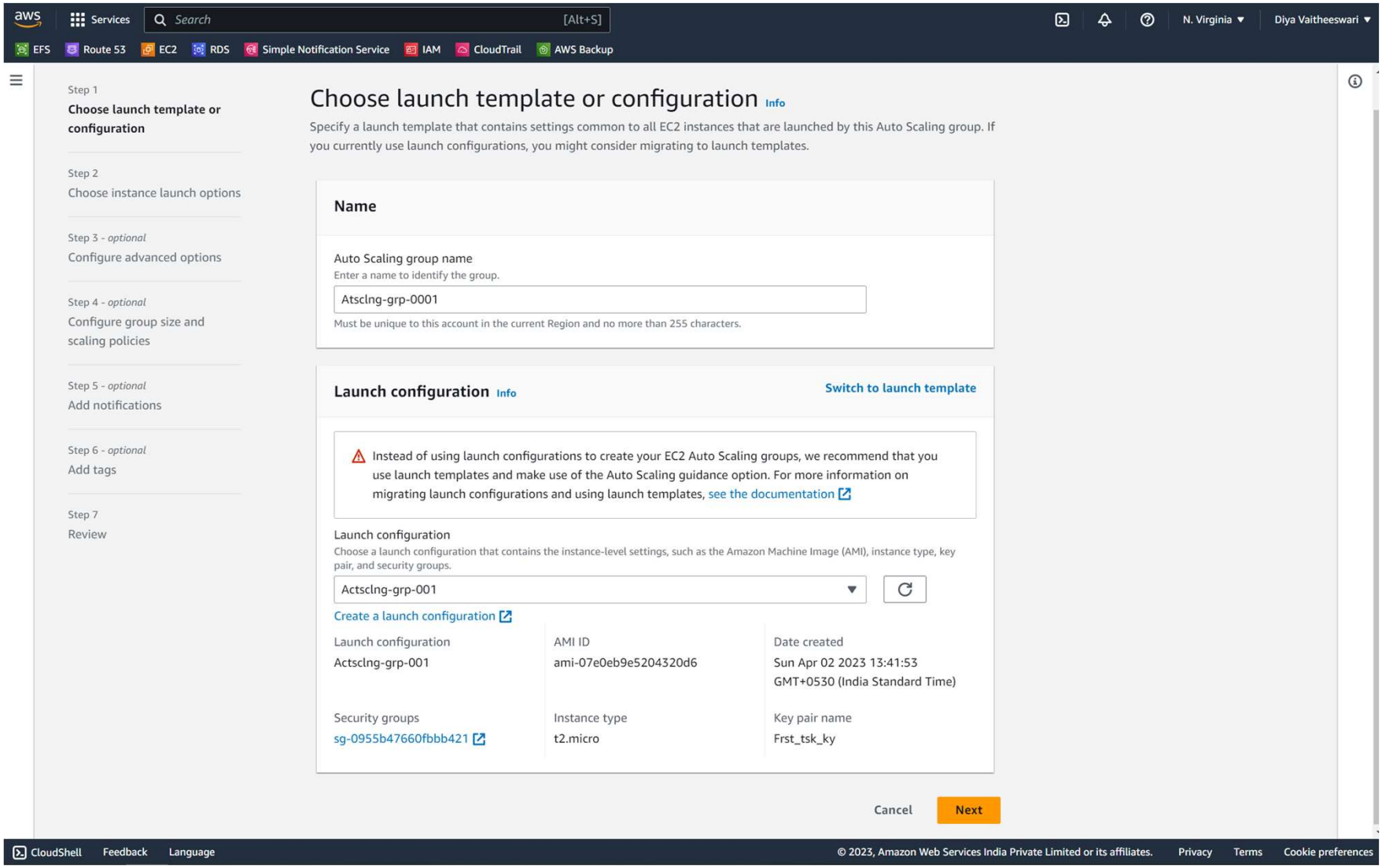
33°C Partly sunny
1:38 PM
4/2/2023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Step 1
Choose launch template or configuration
Step 2
Choose instance launch options
Step 3 - optional
Configure advanced options
Step 4 - optional
Configure group size and scaling policies
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Choose launch template or configuration Info
Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group. If you currently use launch configurations, you might consider migrating to launch templates.
Name
Auto Scaling group name
Enter a name to identify the group.
Atsclng-grp-0001
Must be unique to this account in the current Region and no more than 255 characters.
Launch configuration Info
Switch to launch template
Instead of using launch configurations to create your EC2 Auto Scaling groups, we recommend that you use launch templates and make use of the Auto Scaling guidance option. For more information on migrating launch configurations and using launch templates, see the documentation
Launch configuration
Choose a launch configuration that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.
Actsclng-grp-001
Create a launch configuration
Launch configuration
Actsclng-grp-001
AMI ID
ami-07e0eb9e5204320d6
Date created
Sun Apr 02 2023 13:41:53 GMT+0530 (India Standard Time)
Security groups
sg-0955b47660fbbb421
Instance type
t2.micro
Key pair name
Frst_tsk_ky
Cancel
Next
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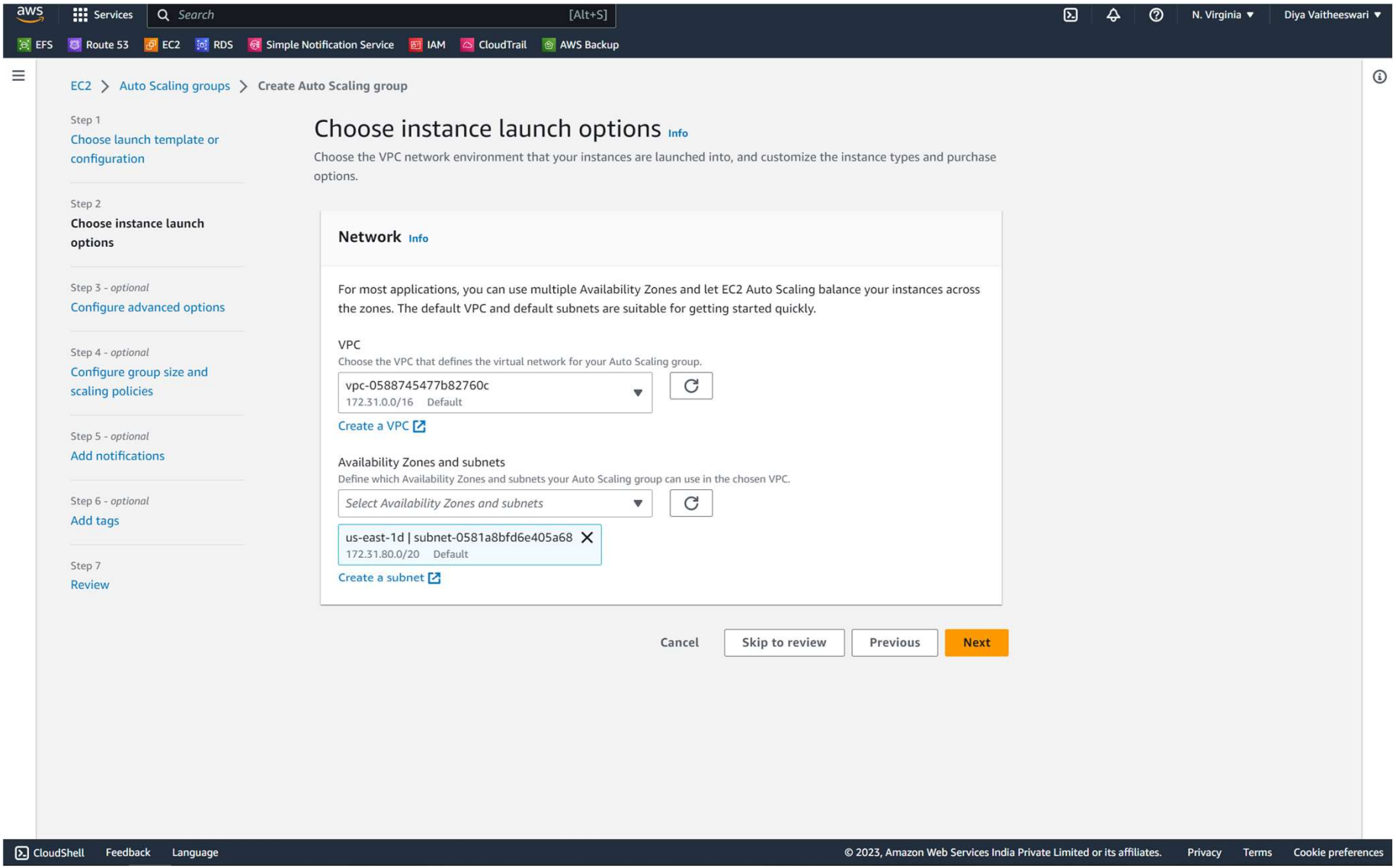
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EC2 > Auto Scaling groups > Create Auto Scaling group
Step 1
Choose launch template or configuration
Step 2
Choose instance launch options
Step 3 - optional
Configure advanced options
Step 4 - optional
Configure group size and scaling policies
Step 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.
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.
VPC
Choose the VPC that defines the virtual network for your Auto Scaling group.
vpc-0588745477b82760c
172.31.0.0/16 Default
Create a VPC
Availability Zones and subnets
Define which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC.
Select Availability Zones and subnets
us-east-1d | subnet-0581a8bfd6e405a68
172.31.80.0/20 Default
Create a subnet
Cancel
Skip to review
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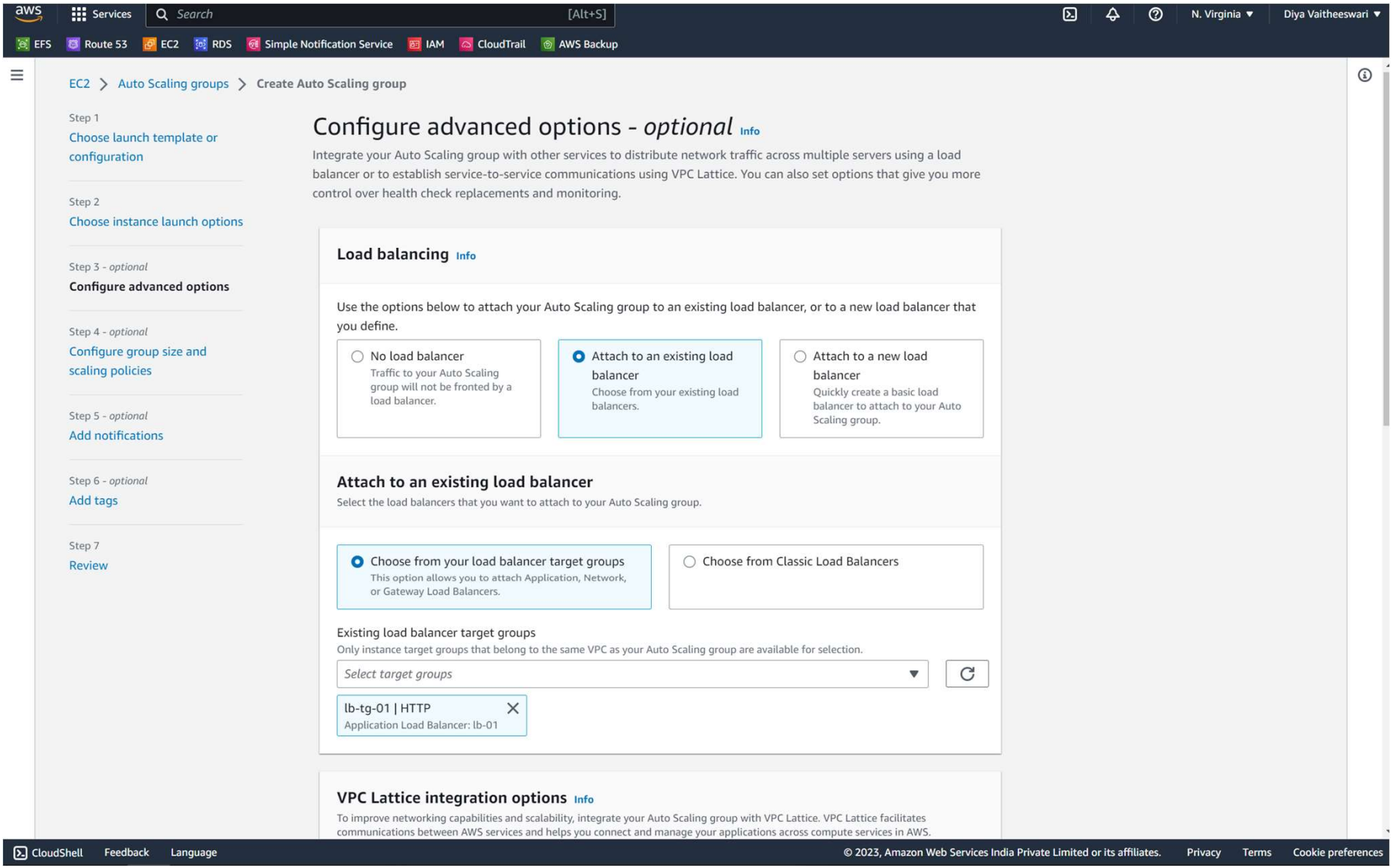
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EC2 > Auto Scaling groups > Create Auto Scaling group
Step 1
Choose launch template or configuration
Step 2
Choose instance launch options
Step 3 - optional
Configure advanced options
Step 4 - optional
Configure group size and scaling policies
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Configure advanced options - optional Info
Integrate your Auto Scaling group with other services to distribute network traffic across multiple servers using a load balancer or to establish service-to-service communications using VPC Lattice. You can also set options that give you more control over 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.
Attach to an existing load balancer
Select the load balancers that you want to attach to your Auto Scaling group.
Choose from your load balancer target groups
This option allows you to attach Application, Network, or Gateway Load Balancers.
Choose from Classic Load Balancers
Existing load balancer target groups
Only instance target groups that belong to the same VPC as your Auto Scaling group are available for selection.
Select target groups
lb-tg-01 | HTTP
Application Load Balancer: lb-01
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.
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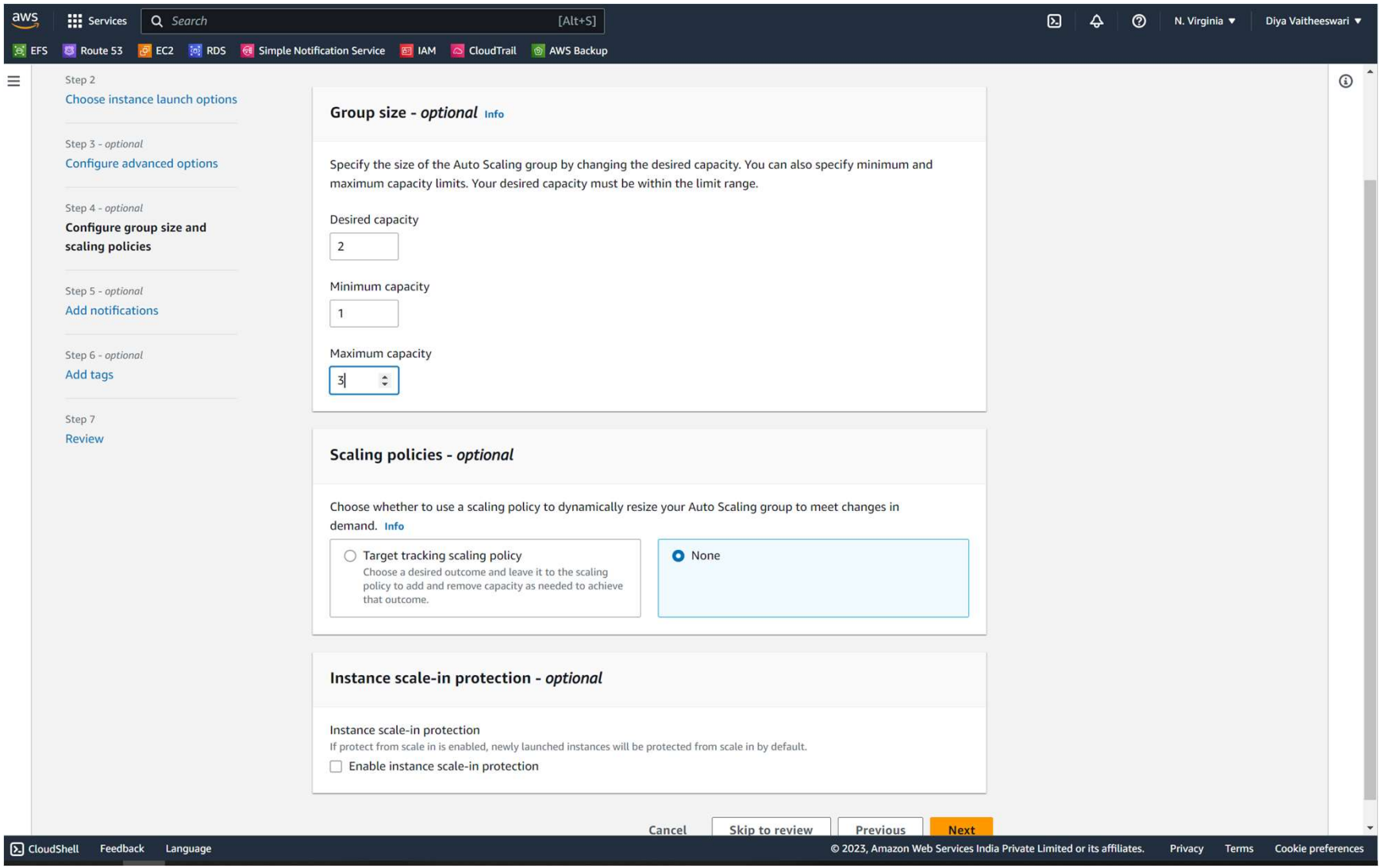
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Step 2
Choose instance launch options
Step 3 - optional
Configure advanced options
Step 4 - optional
Configure group size and scaling policies
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Group size - optional Info
Specify the size of the Auto Scaling group by changing the desired capacity. You can also specify minimum and maximum capacity limits. Your desired capacity must be within the limit range.
Desired capacity
2
Minimum capacity
1
Maximum capacity
3
Scaling policies - optional
Choose whether to use a scaling policy to dynamically resize your Auto Scaling group to meet changes in demand. Info
Target tracking scaling policy
Choose a desired outcome and leave it to the scaling policy to add and remove capacity as needed to achieve that outcome.
None
Instance scale-in protection - optional
Instance scale-in protection
If protect from scale in is enabled, newly launched instances will be protected from scale in by default.
Enable instance scale-in protection
Cancel
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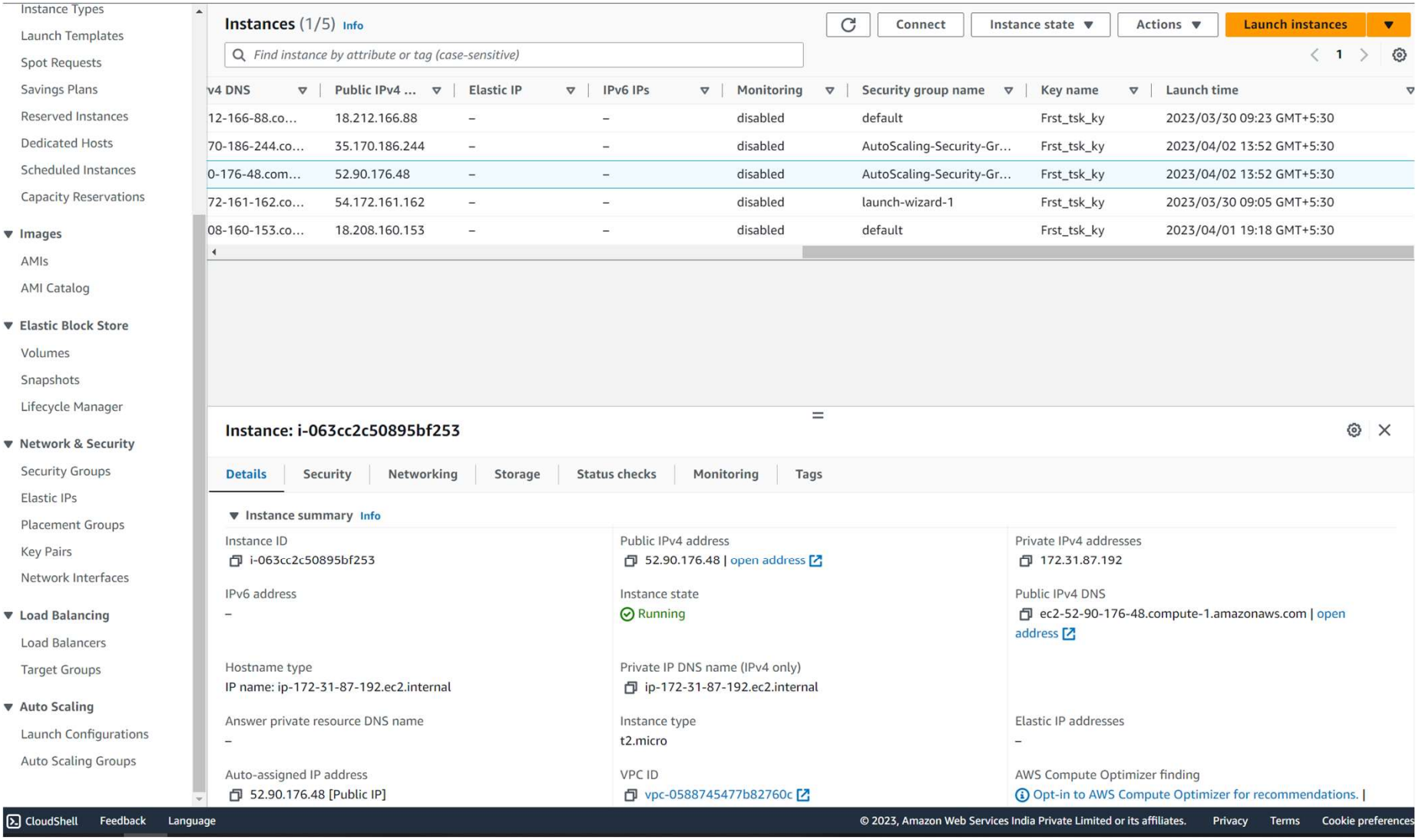
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Load Balancers
Target Groups
Auto Scaling
Launch Configurations
Auto Scaling Groups
Instances (1/5) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
1
v4 DNS | Public IPv4 ... | Elastic IP | IPv6 IPs | Monitoring | Security group name | Key name | Launch time
12-166-88.co... | 18.212.166.88 | – | – | disabled | default | Frst_tsk_ky | 2023/03/30 09:23 GMT+5:30
70-186-244.co... | 35.170.186.244 | – | – | disabled | AutoScaling-Security-Gr... | Frst_tsk_ky | 2023/04/02 13:52 GMT+5:30
0-176-48.com... | 52.90.176.48 | – | – | disabled | AutoScaling-Security-Gr... | Frst_tsk_ky | 2023/04/02 13:52 GMT+5:30
72-161-162.co... | 54.172.161.162 | – | – | disabled | launch-wizard-1 | Frst_tsk_ky | 2023/03/30 09:05 GMT+5:30
08-160-153.co... | 18.208.160.153 | – | – | disabled | default | Frst_tsk_ky | 2023/04/01 19:18 GMT+5:30
Instance: i-063cc2c50895bf253
Details | Security | Networking | Storage | Status checks | Monitoring | Tags
Instance summary Info
Instance ID
i-063cc2c50895bf253
Public IPv4 address
52.90.176.48 | open address
Private IPv4 addresses
172.31.87.192
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-52-90-176-48.compute-1.amazonaws.com | open address
Hostname type
IP name: ip-172-31-87-192.ec2.internal
Private IP DNS name (IPv4 only)
ip-172-31-87-192.ec2.internal
Answer private resource DNS name
–
Instance type
t2.micro
Elastic IP addresses
–
Auto-assigned IP address
52.90.176.48 [Public IP]
VPC ID
vpc-0588745477b82760c
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. |
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