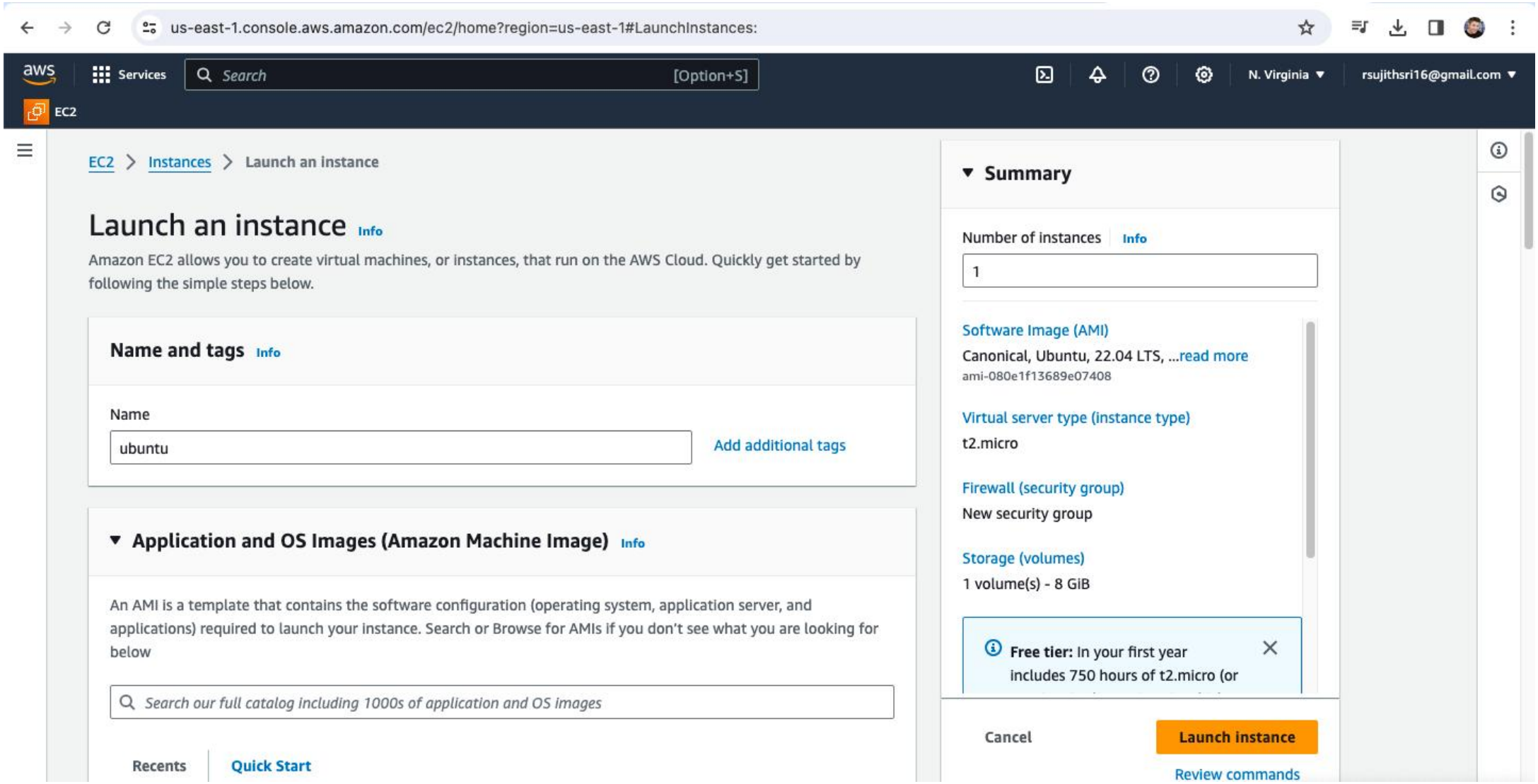
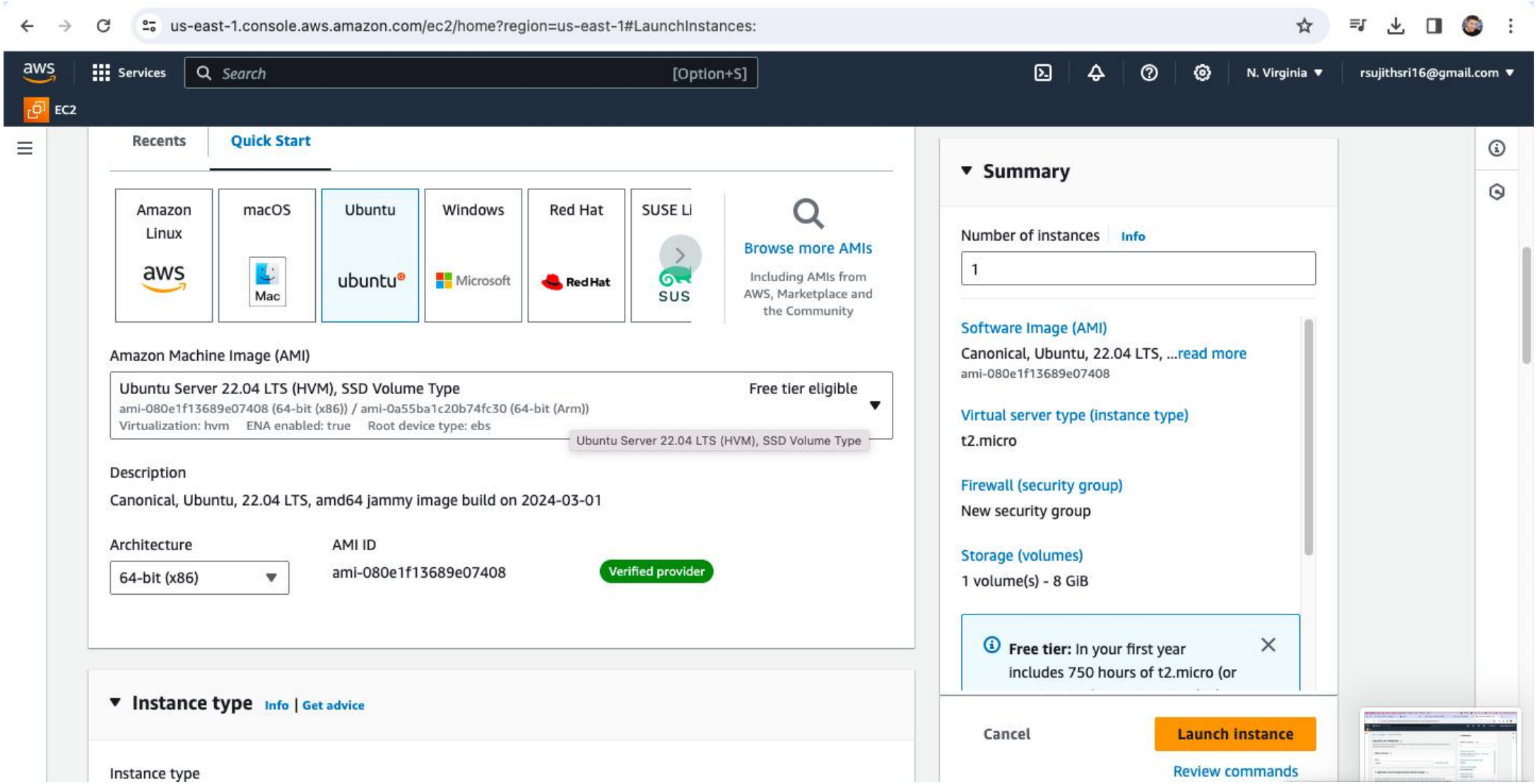
Problem Statement:

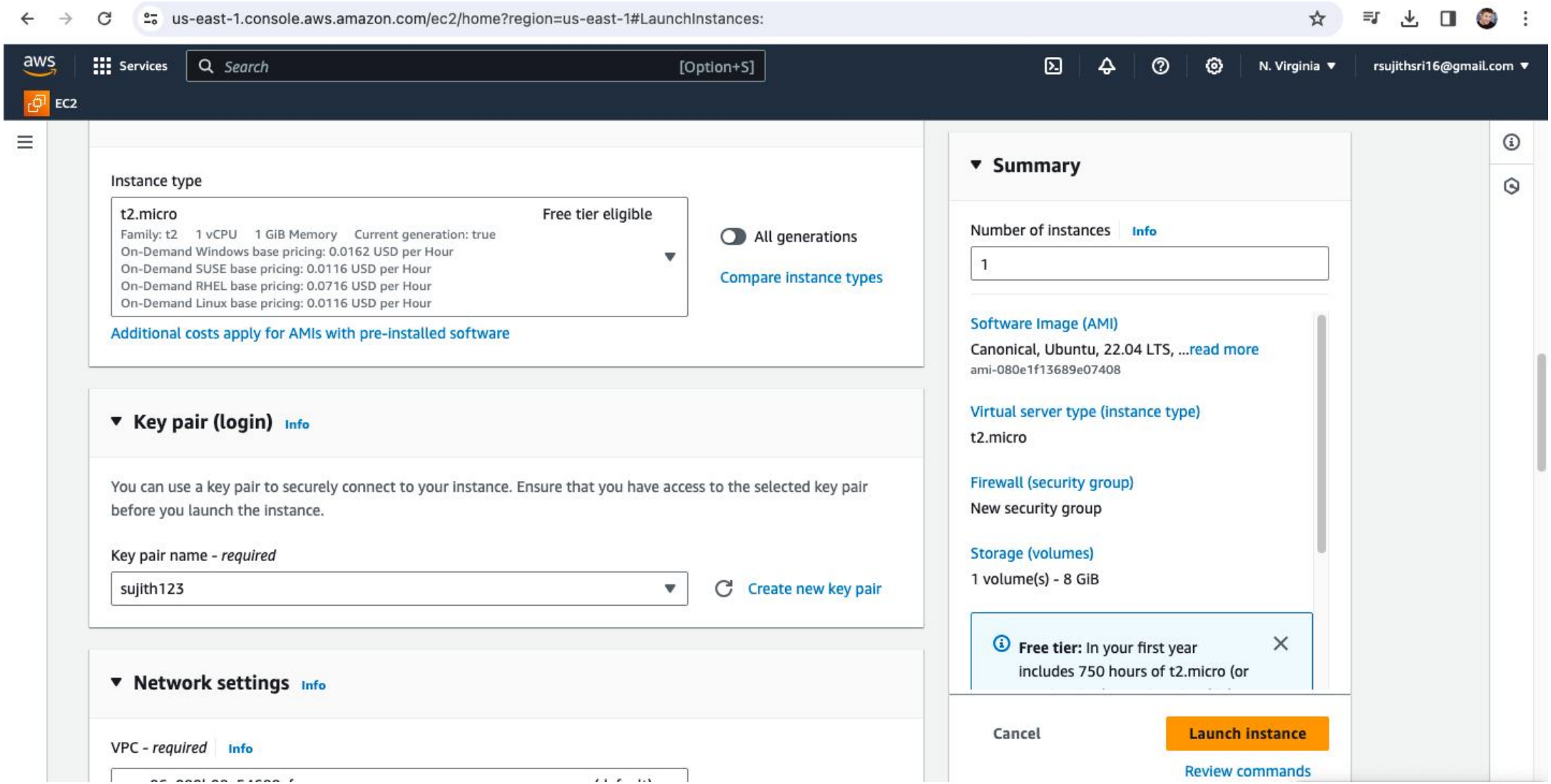
You work for XYZ Corporation that uses on premise solutions and some limited number of systems. With the increase in requests in their application, the load also increases. So, to handle the load the corporation has to buy more systems almost on a regular basis. Realizing the need to cut down the expenses on systems, they decided to move their infrastructure to AWS.

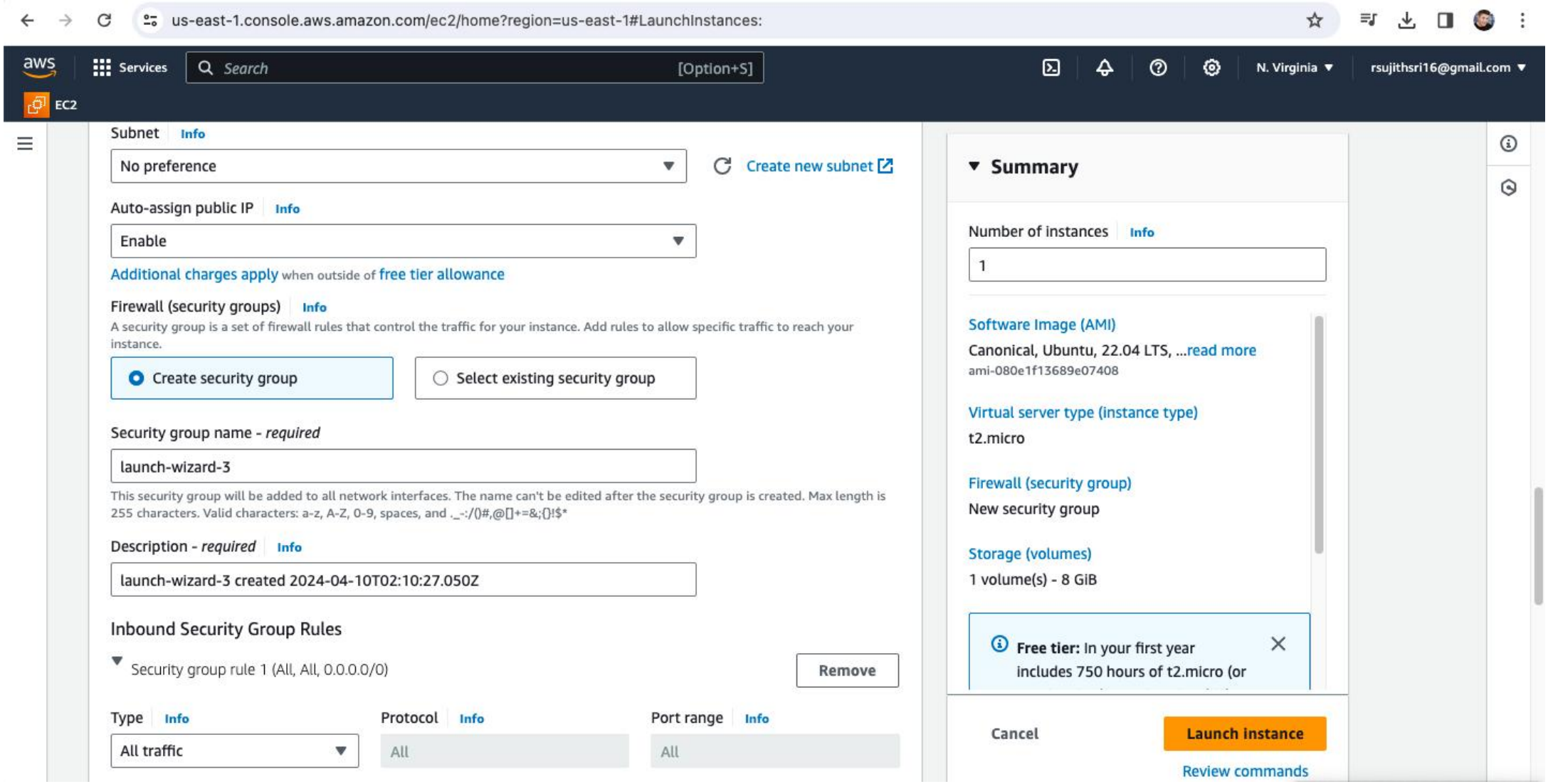
Tasks To Be Performed:

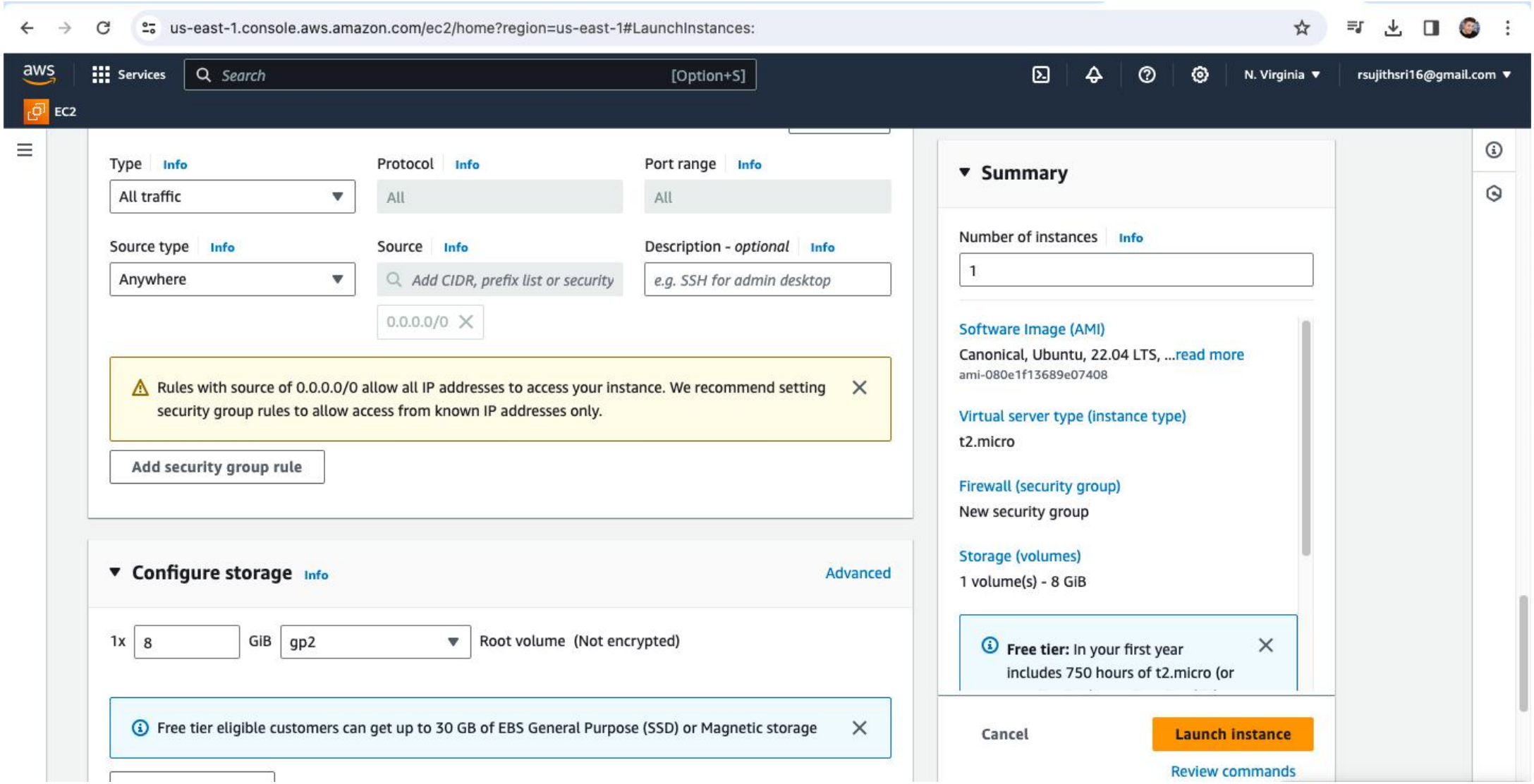
1. Use the Route 53 hosted zone created in the assignment.
2. Route the traffic to an EC2 instance with an Apache web server running in it using its IP address.


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
EC2 > Instances > Launch an instance
Launch an instance Info
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.
Name and tags Info
Name
ubuntu
Add additional tags
Application and OS Images (Amazon Machine Image) Info
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below
Search our full catalog including 1000s of application and OS images
Recents
Quick Start
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-080e1f13689e07408
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
Cancel
Launch instance
Review commands


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
Recents
Quick Start
Amazon Linux
macOS
Mac
Ubuntu
Windows
Microsoft
Red Hat
SUSE Li
SUS
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
Free tier eligible
ami-080e1f13689e07408 (64-bit (x86)) / ami-0a55ba1c20b74fc30 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs
Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
Description
Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2024-03-01
Architecture
64-bit (x86)
AMI ID
ami-080e1f13689e07408
Verified provider
Instance type
Info | Get advice
Instance type
Summary
Number of instances
Info
1
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-080e1f13689e07408
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
Cancel
Launch instance
Review commands


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
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 SUSE base pricing: 0.0116 USD per Hour
On-Demand RHEL base pricing: 0.0716 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
You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.
Key pair name - required
sujith123
Create new key pair
Network settings Info
VPC - required Info
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-080e1f13689e07408
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
Cancel
Launch instance
Review commands


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
Subnet Info
No preference
Create new subnet
Auto-assign public IP Info
Enable
Additional charges apply when outside of free tier allowance
Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
Create security group
Select existing security group
Security group name - required
launch-wizard-3
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-3 created 2024-04-10T02:10:27.050Z
Inbound Security Group Rules
Security group rule 1 (All, All, 0.0.0.0/0)
Remove
Type Info
All traffic
Protocol Info
All
Port range Info
All
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-080e1f13689e07408
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
Cancel
Launch instance
Review commands


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
Type Info
All traffic
Protocol Info
All
Port range Info
All
Source type Info
Anywhere
Source Info
Add CIDR, prefix list or security
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
Configure storage Info
Advanced
1x
8
GiB
gp2
Root volume (Not encrypted)
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-080e1f13689e07408
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t2.micro
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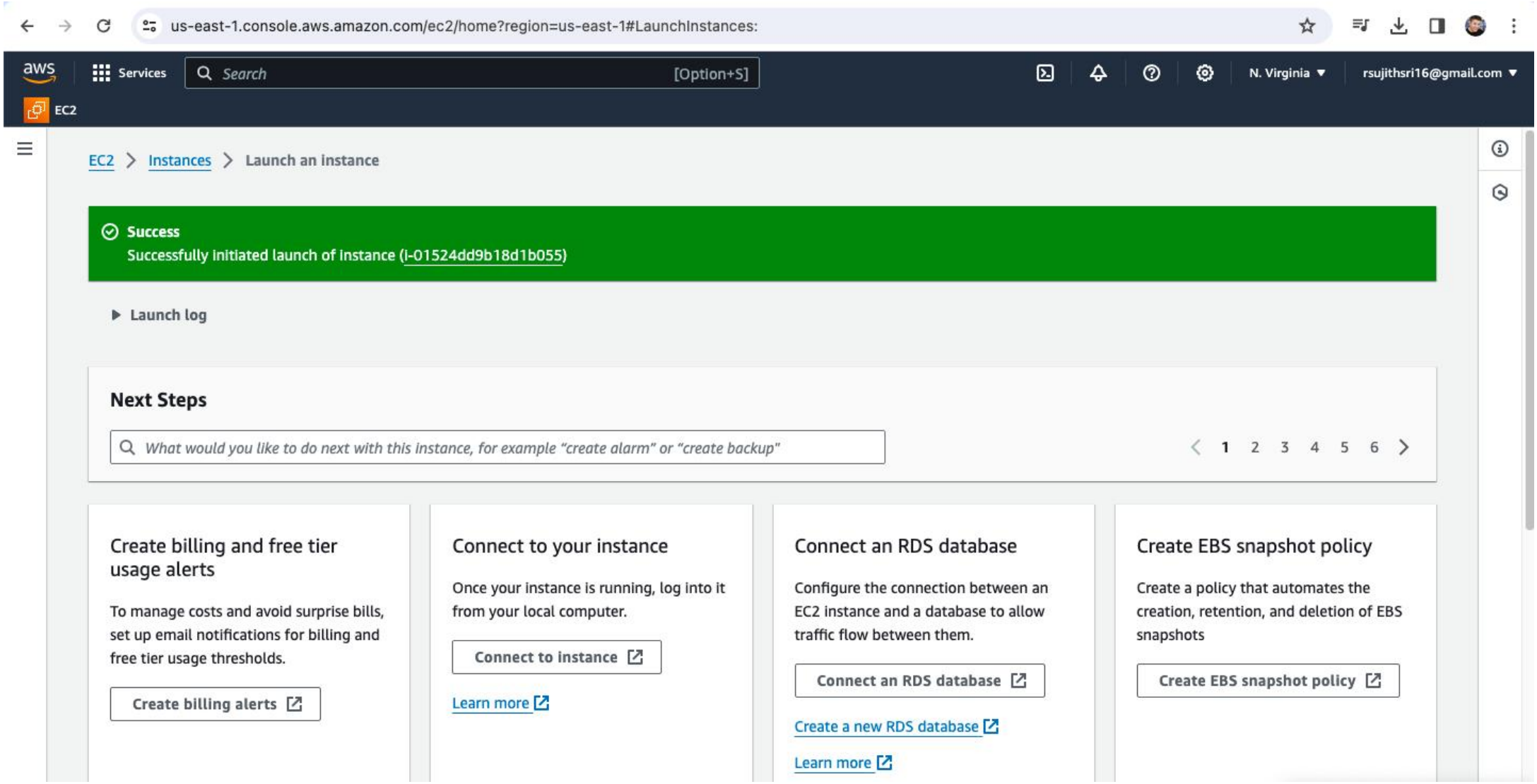
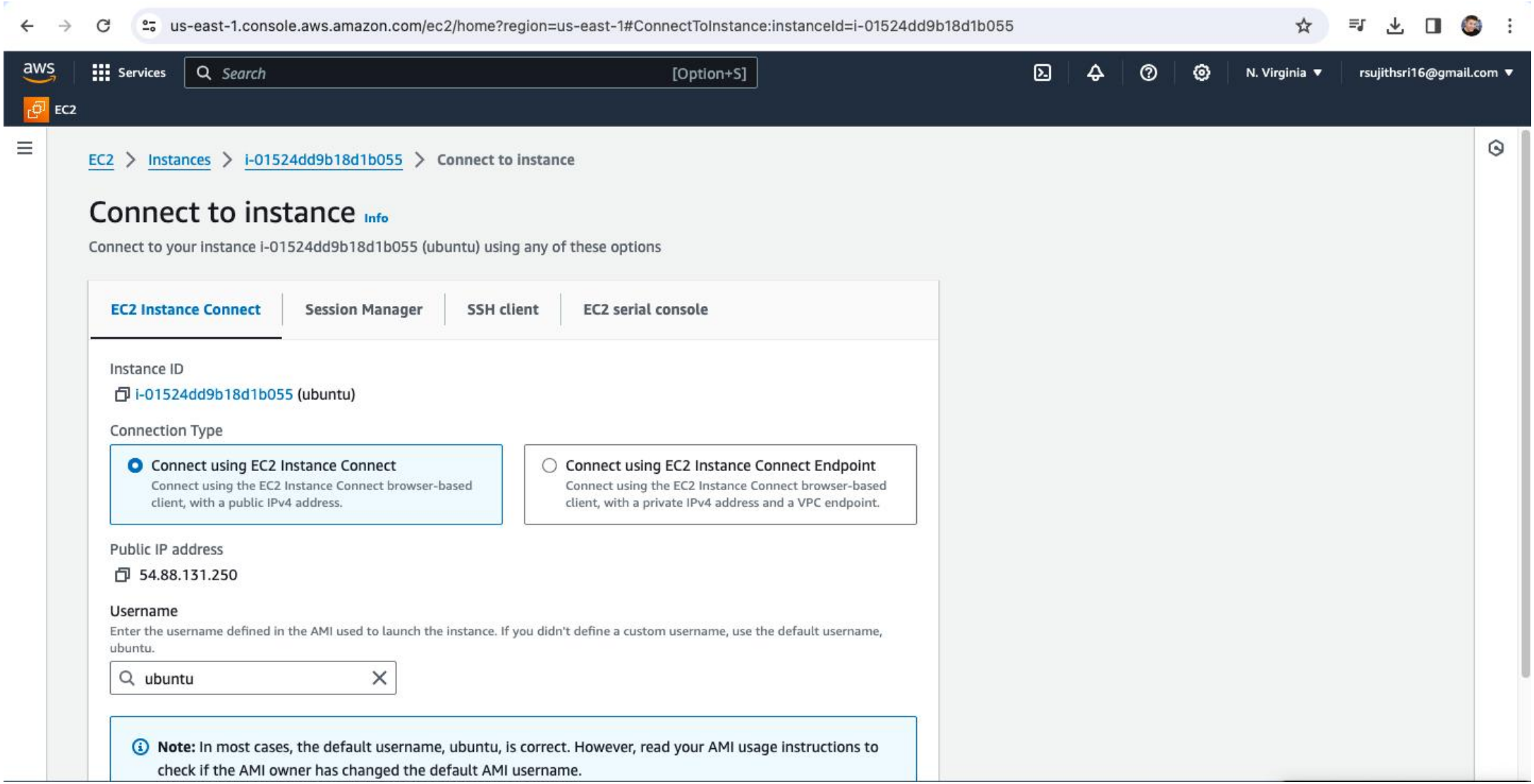
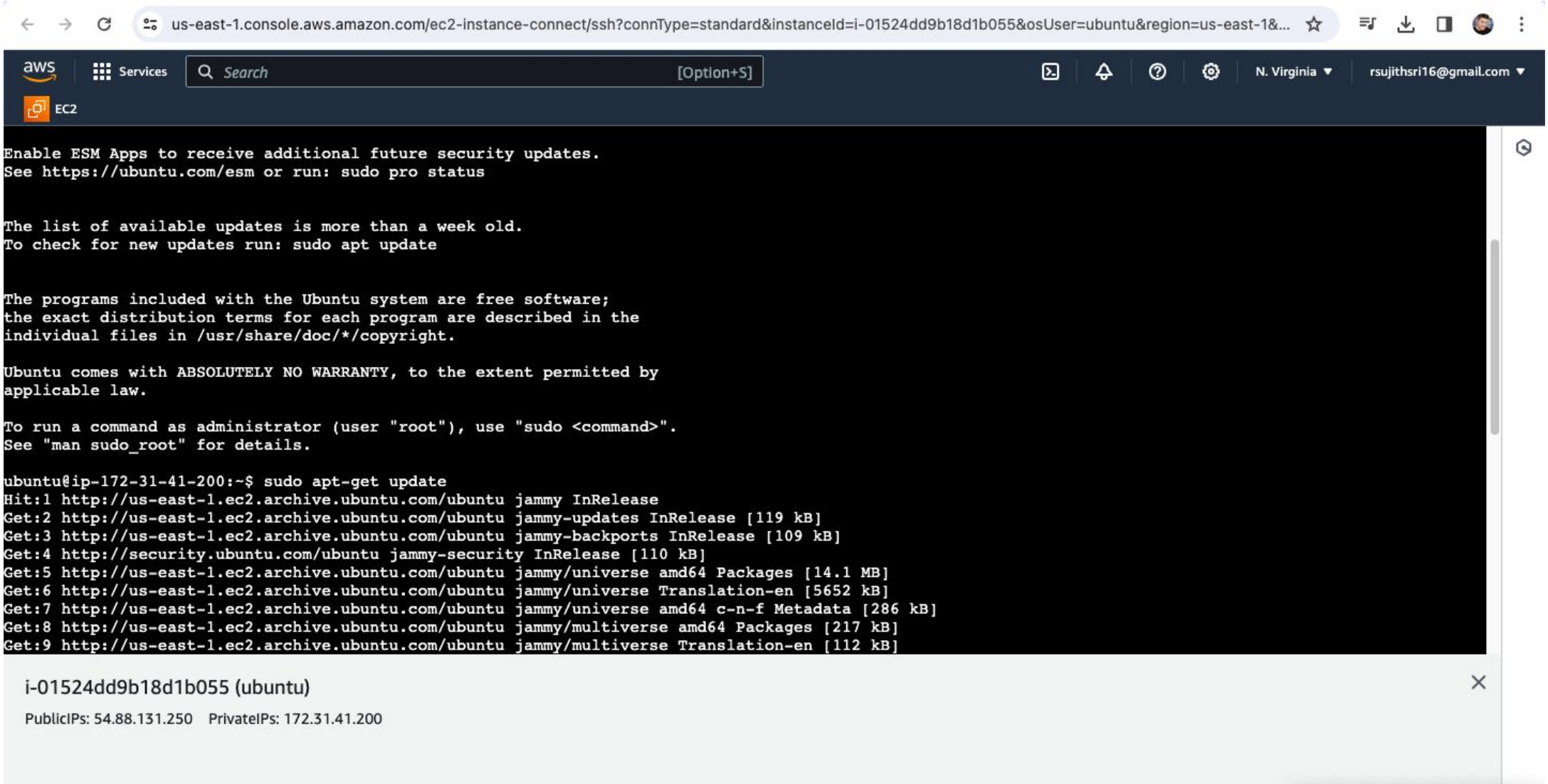
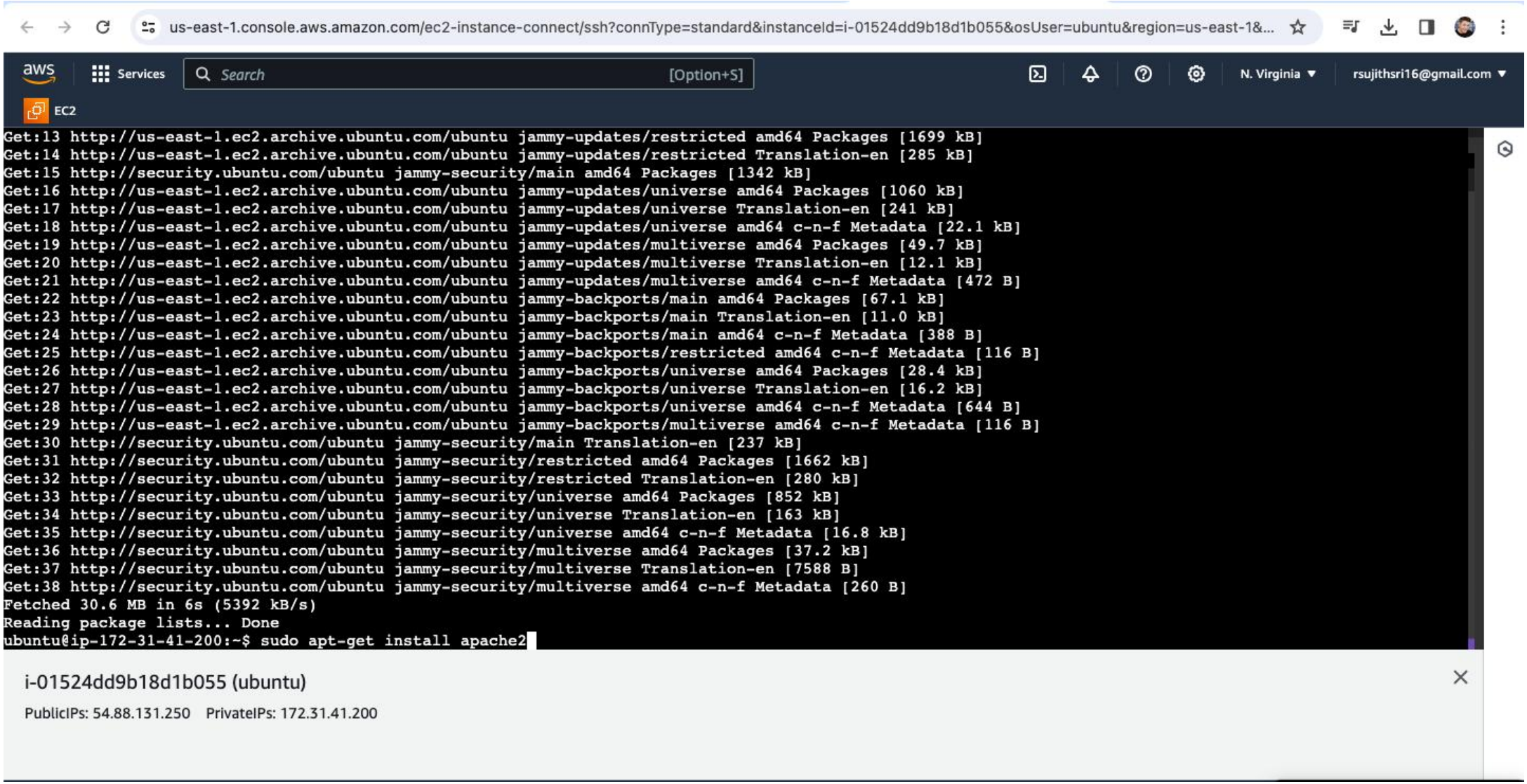
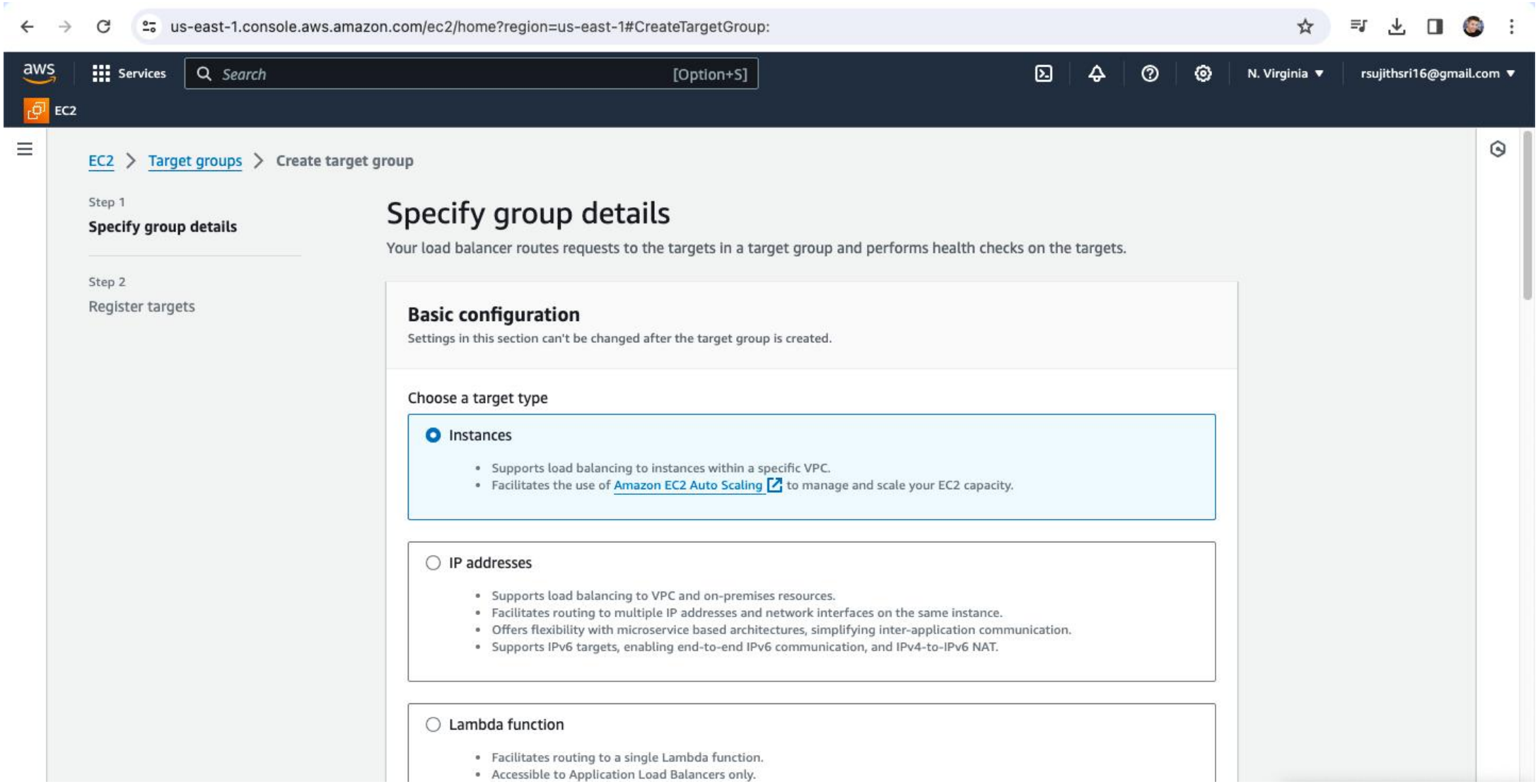
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or
Cancel
Launch instance
Review commands

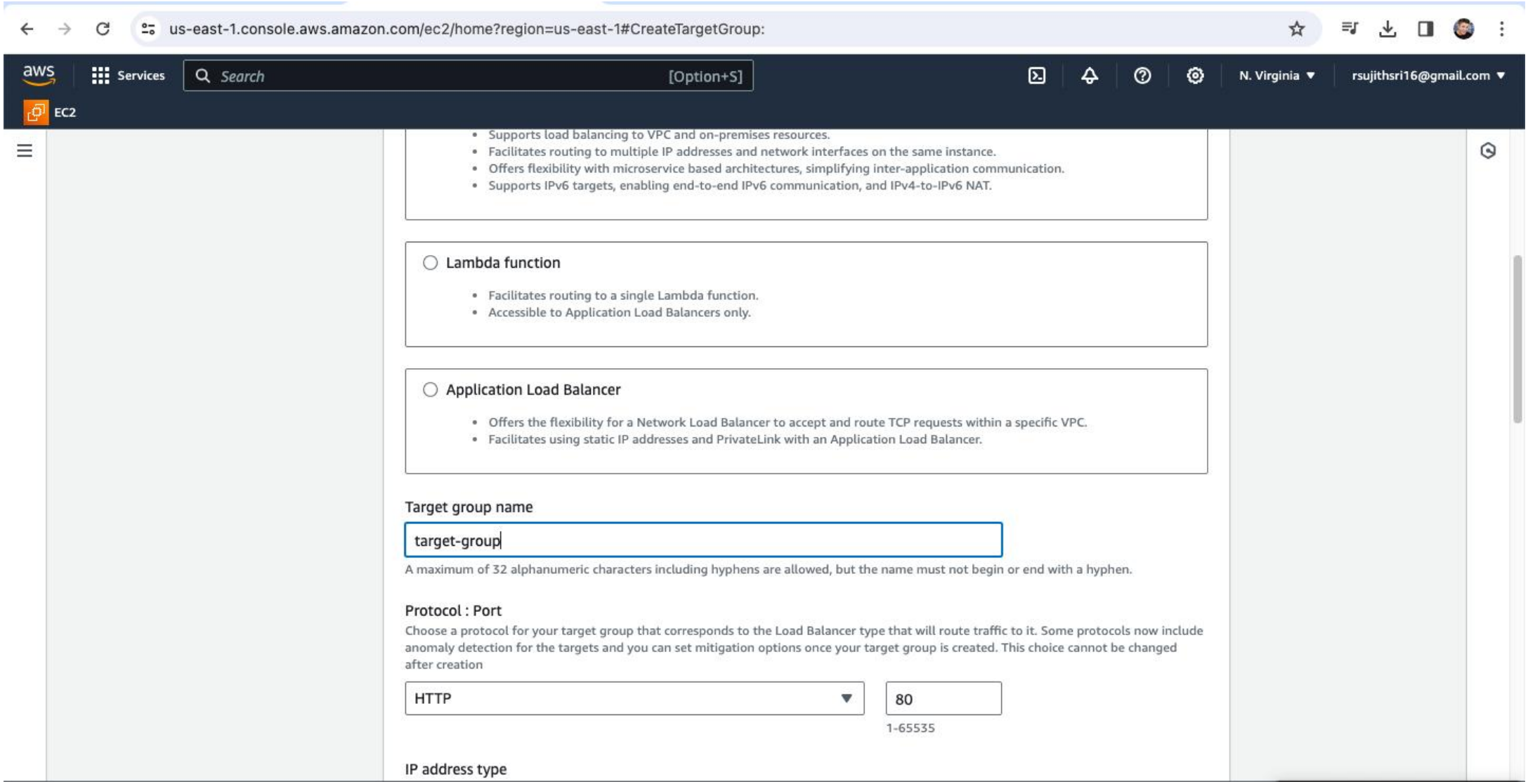

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-01524dd9b18d1b055)
Launch log
Next Steps
What would you like to do next with this instance, for example "create alarm" or "create backup"
1 2 3 4 5 6
Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
Create billing alerts
Connect to your instance
Once your instance is running, log into it from your local computer.
Connect to instance
Learn more
Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
Connect an RDS database
Create a new RDS database
Learn more
Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots
Create EBS snapshot policy

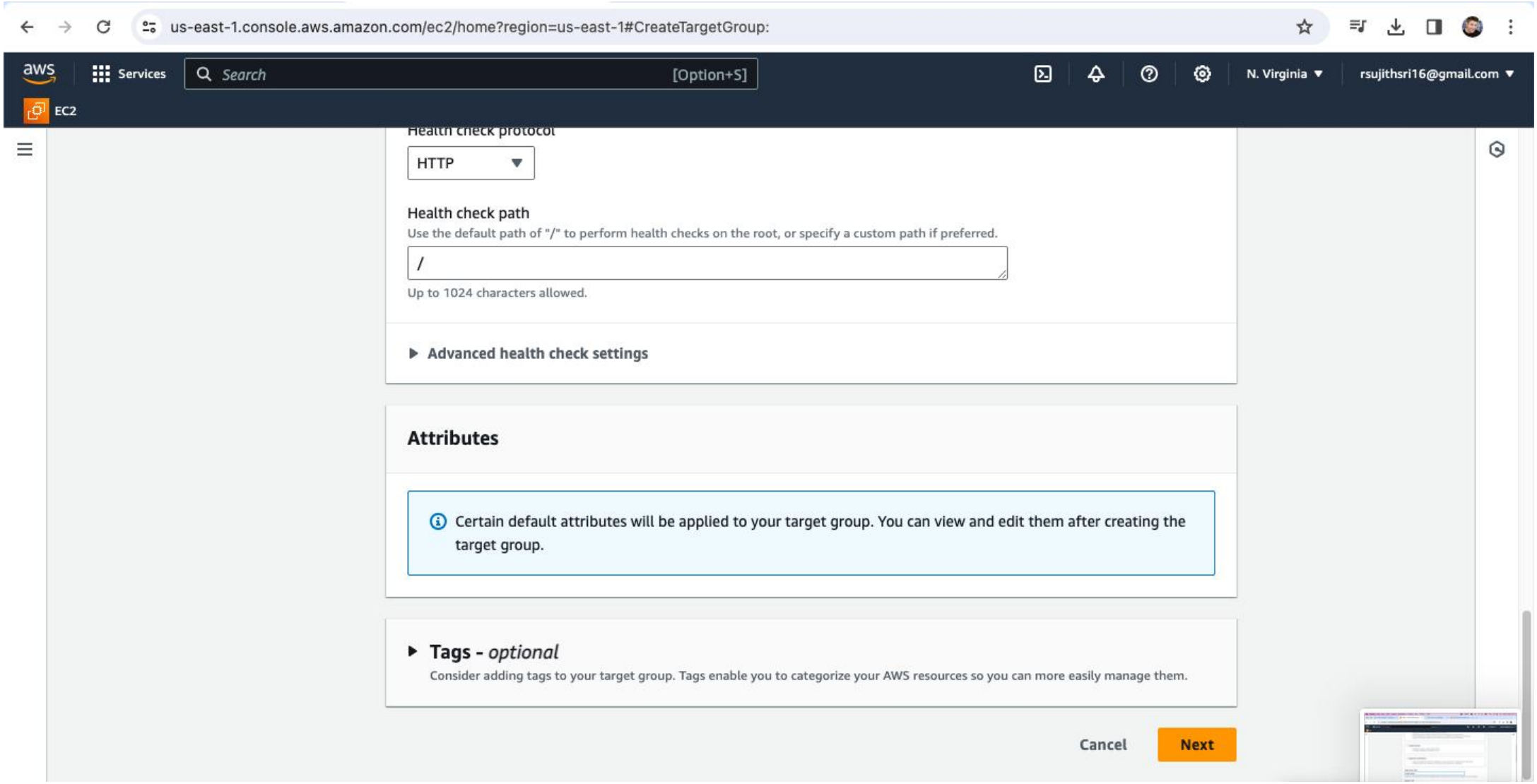

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-01524dd9b18d1b055
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
EC2 > Instances > i-01524dd9b18d1b055 > Connect to instance
Connect to instance Info
Connect to your instance i-01524dd9b18d1b055 (ubuntu) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-01524dd9b18d1b055 (ubuntu)
Connection Type
Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.
Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.
Public IP address
54.88.131.250
Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.
ubuntu
Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

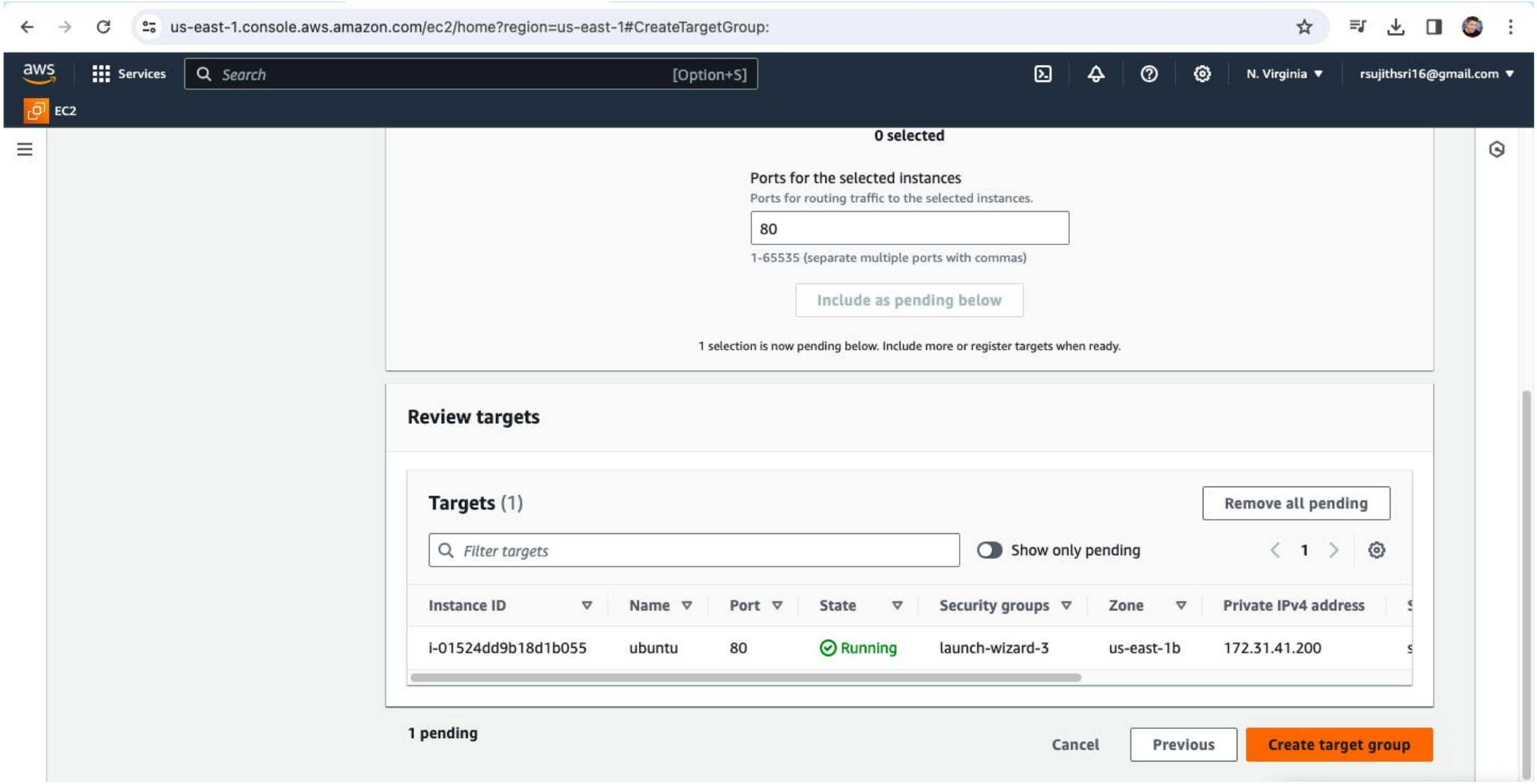

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-01524dd9b18d1b055&osUser=ubuntu&region=us-east-1&...
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-41-200:~$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
i-01524dd9b18d1b055 (ubuntu)
PublicIPs: 54.88.131.250 PrivateIPs: 172.31.41.200

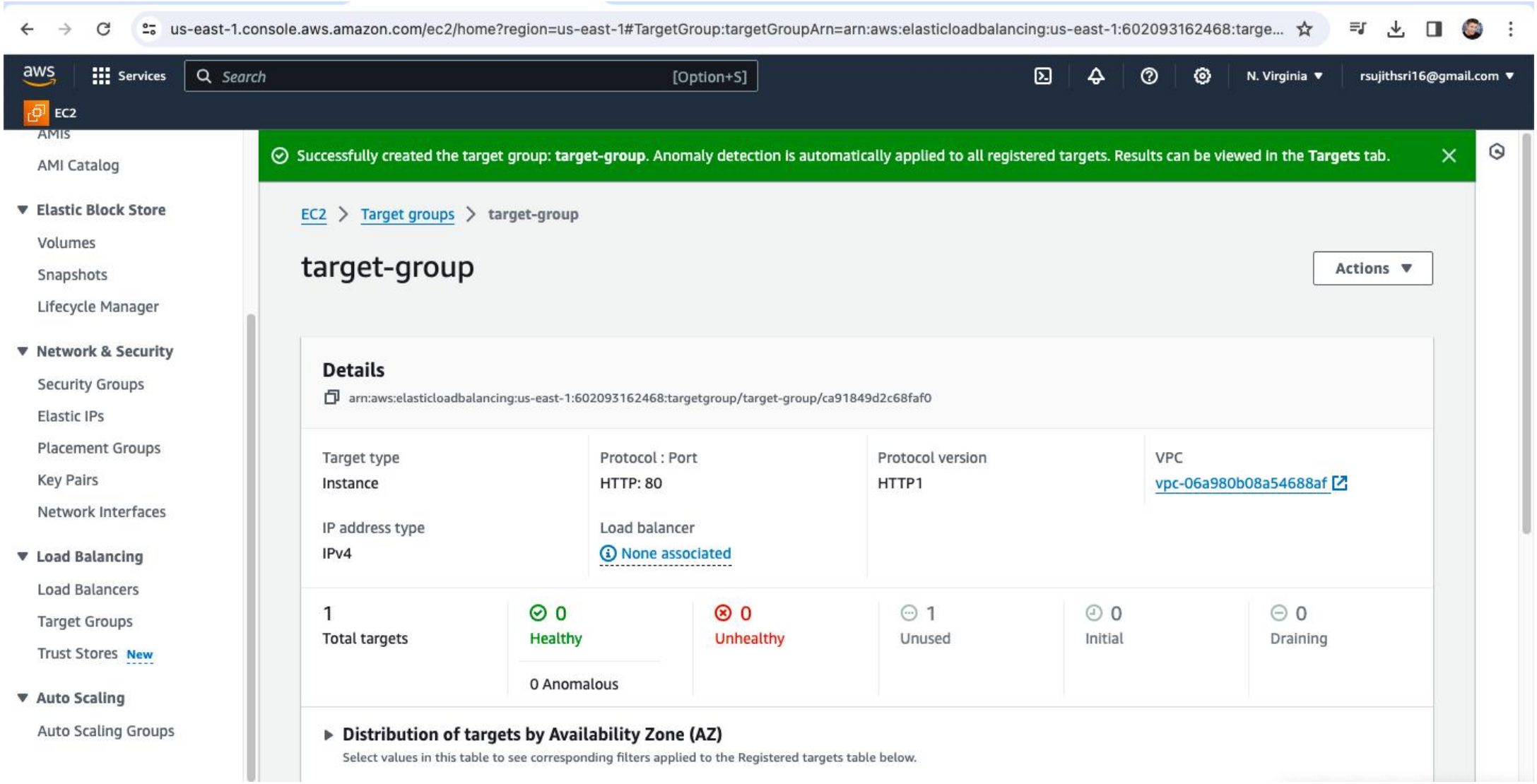

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-01524dd9b18d1b055&osUser=ubuntu&region=us-east-1&...
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1699 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [285 kB]
Get:15 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1342 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1060 kB]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [241 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [49.7 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [12.1 kB]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [67.1 kB]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.0 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [28.4 kB]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.2 kB]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:30 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [237 kB]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1662 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [280 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [852 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [163 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.2 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7588 B]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
Fetched 30.6 MB in 6s (5392 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-41-200:~$ sudo apt-get install apache2
i-01524dd9b18d1b055 (ubuntu)
PublicIPs: 54.88.131.250 PrivateIPs: 172.31.41.200

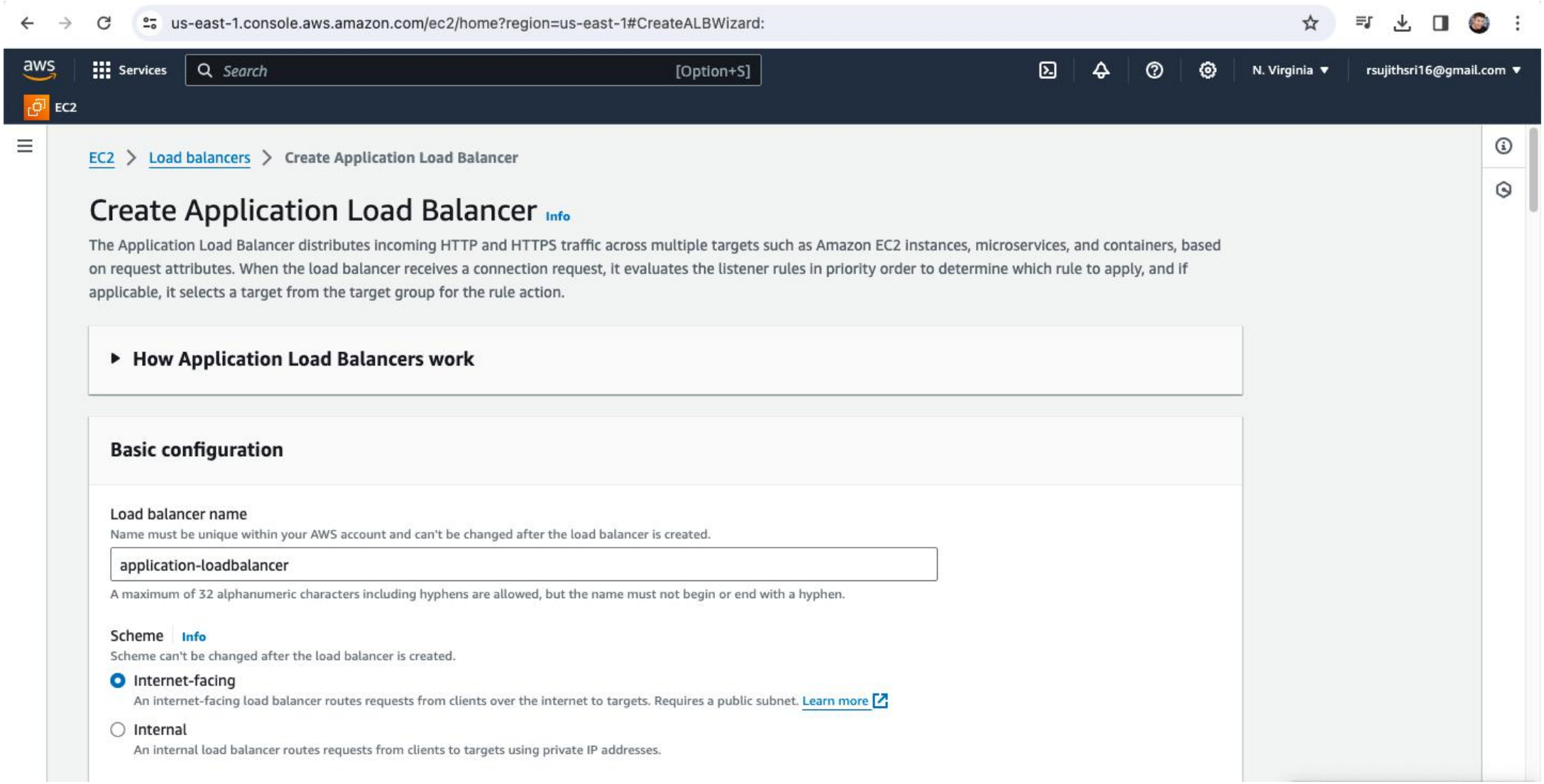

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateTargetGroup:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
EC2 > Target groups > Create target group
Step 1
Specify group details
Step 2
Register targets
Specify group details
Your load balancer routes requests to the targets in a target group and performs health checks on the targets.
Basic configuration
Settings in this section can't be changed after the target group is created.
Choose a target type
Instances
Supports load balancing to instances within a specific VPC.
Facilitates the use of Amazon EC2 Auto Scaling to manage and scale your EC2 capacity.
IP addresses
Supports load balancing to VPC and on-premises resources.
Facilitates routing to multiple IP addresses and network interfaces on the same instance.
Offers flexibility with microservice based architectures, simplifying inter-application communication.
Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.
Lambda function
Facilitates routing to a single Lambda function.
Accessible to Application Load Balancers only.

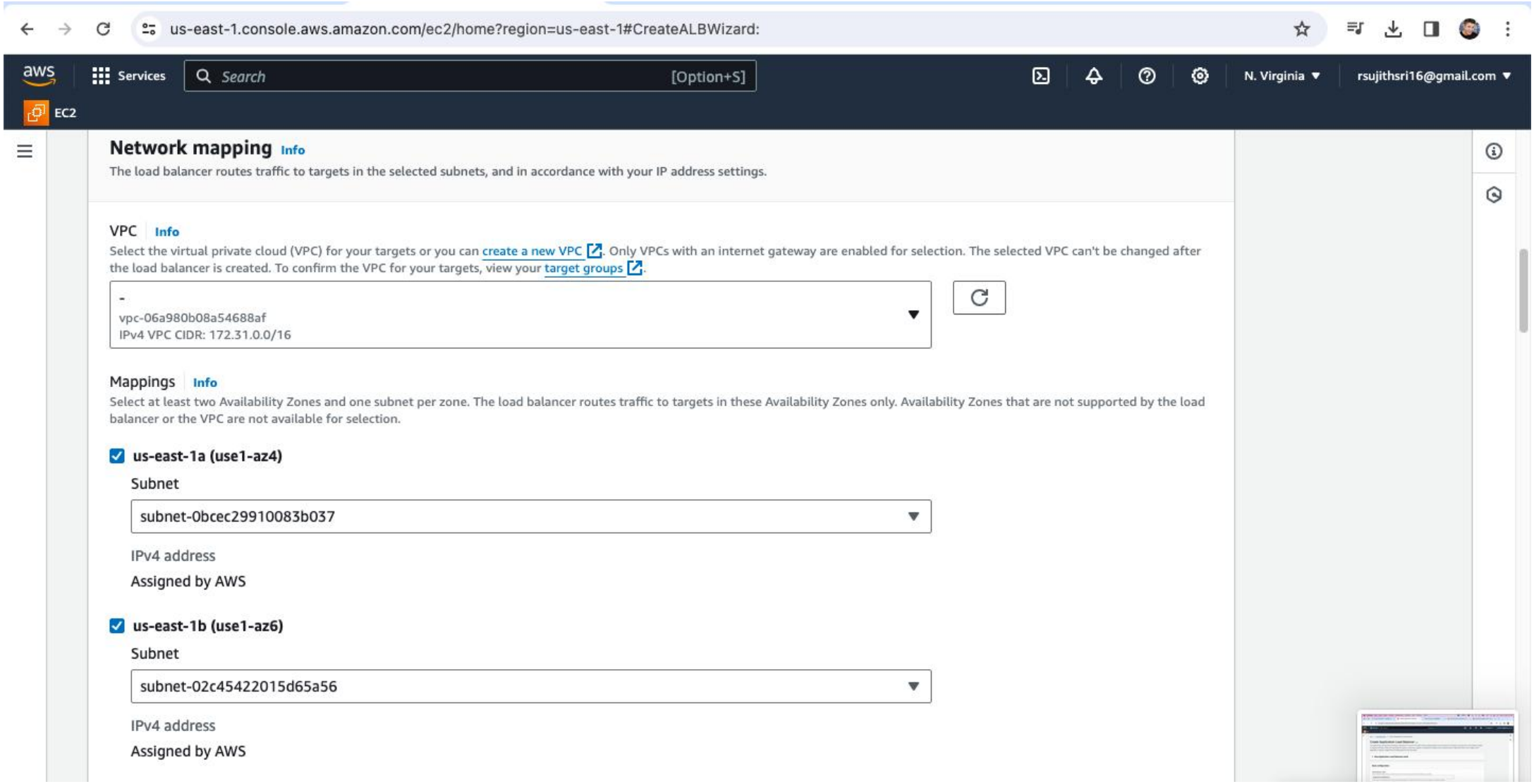

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateTargetGroup:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
Supports load balancing to VPC and on-premises resources.
Facilitates routing to multiple IP addresses and network interfaces on the same instance.
Offers flexibility with microservice based architectures, simplifying inter-application communication.
Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.
Lambda function
Facilitates routing to a single Lambda function.
Accessible to Application Load Balancers only.
Application Load Balancer
Offers the flexibility for a Network Load Balancer to accept and route TCP requests within a specific VPC.
Facilitates using static IP addresses and PrivateLink with an Application Load Balancer.
Target group name
target-group
A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.
Protocol : Port
Choose a protocol for your target group that corresponds to the Load Balancer type that will route traffic to it. Some protocols now include anomaly detection for the targets and you can set mitigation options once your target group is created. This choice cannot be changed after creation
HTTP
80
1-65535
IP address type

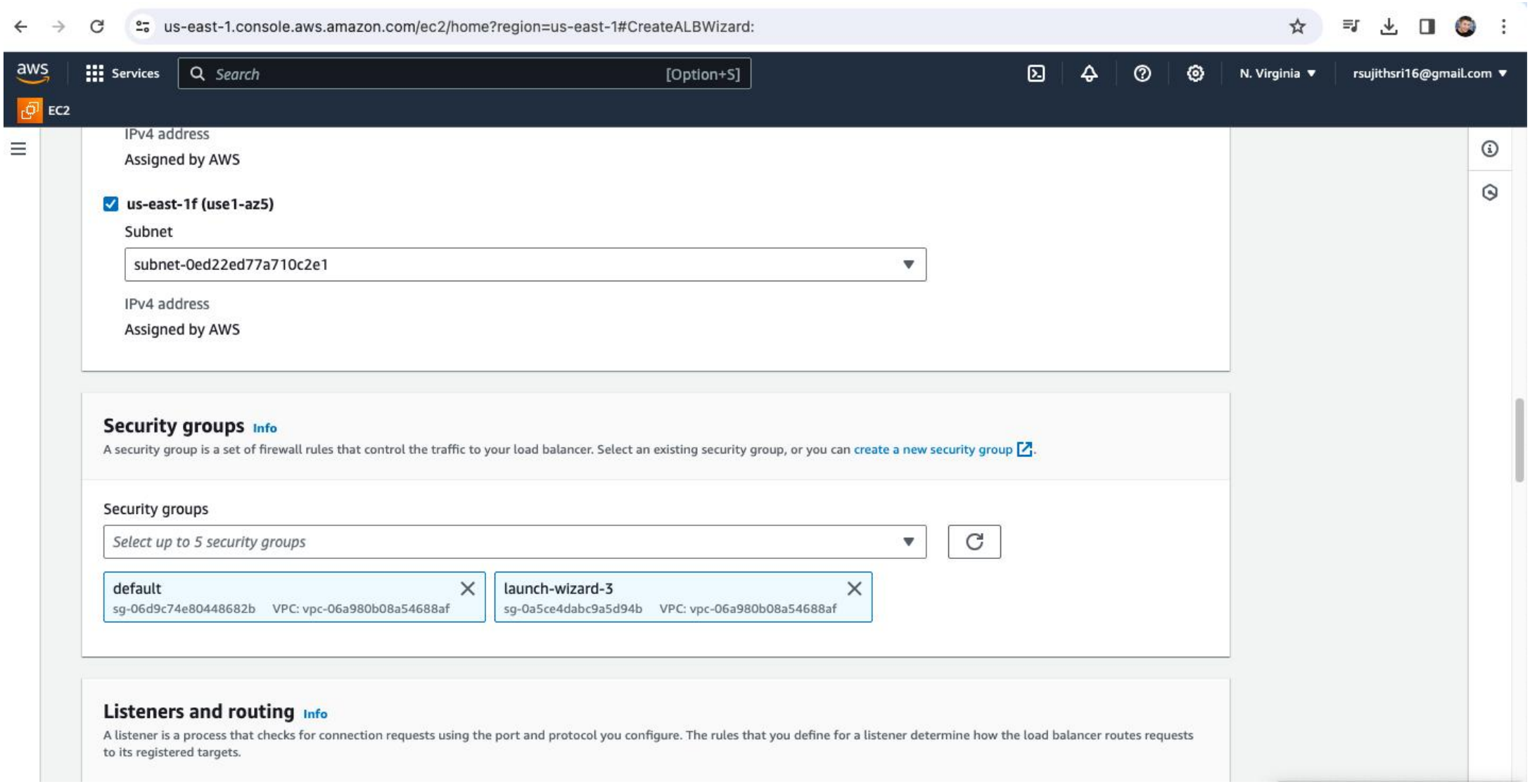

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateTargetGroup:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
Health check protocol
HTTP
Health check path
Use the default path of "/" to perform health checks on the root, or specify a custom path if preferred.
/
Up to 1024 characters allowed.
Advanced health check settings
Attributes
Certain default attributes will be applied to your target group. You can view and edit them after creating the target group.
Tags - optional
Consider adding tags to your target group. Tags enable you to categorize your AWS resources so you can more easily manage them.
Cancel
Next

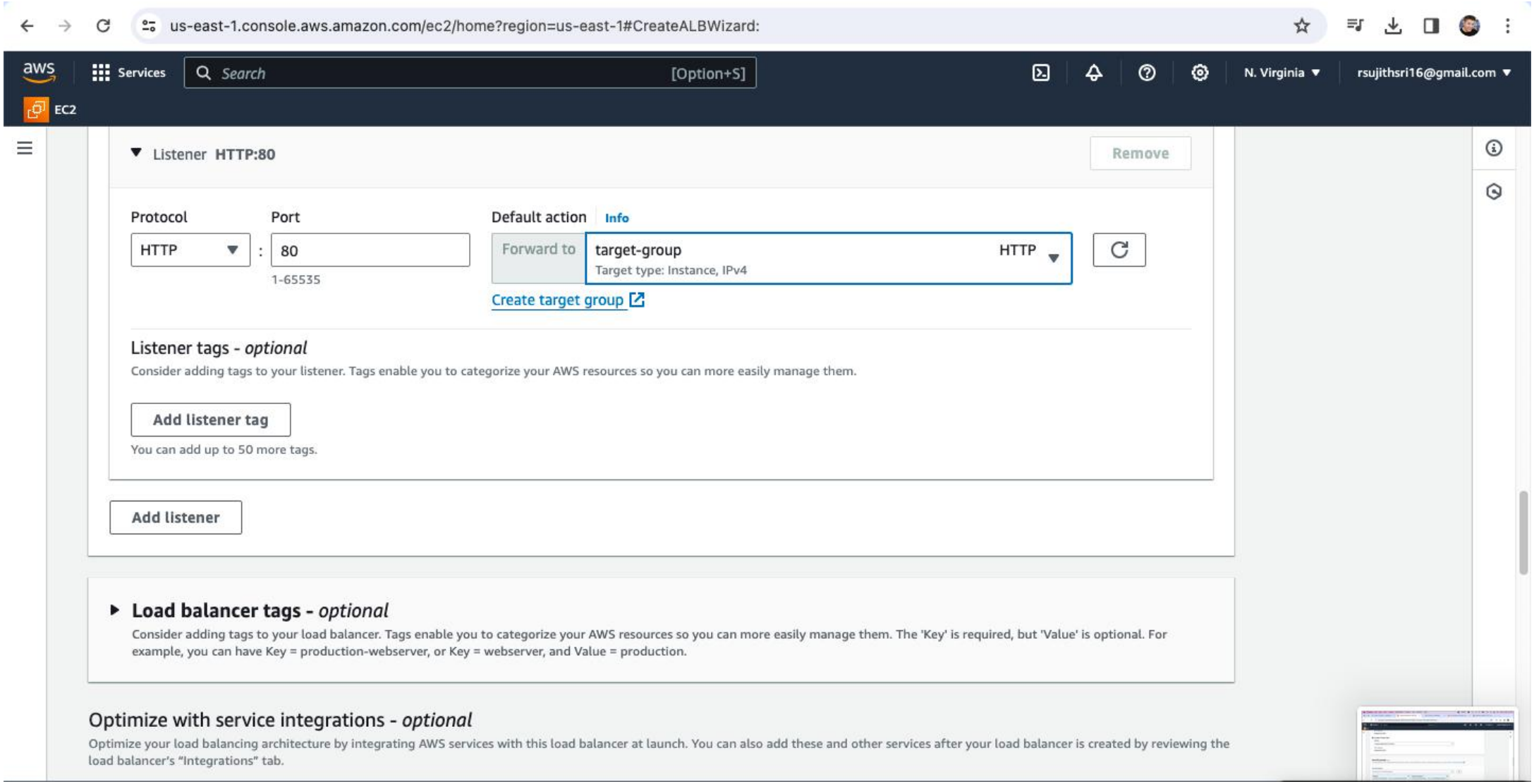

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateTargetGroup:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
0 selected
Ports for the selected instances
Ports for routing traffic to the selected instances.
80
1-65535 (separate multiple ports with commas)
Include as pending below
1 selection is now pending below. Include more or register targets when ready.
Review targets
Targets (1)
Remove all pending
Filter targets
Show only pending
1
Instance ID
Name
Port
State
Security groups
Zone
Private IPv4 address
i-01524dd9b18d1b055
ubuntu
80
Running
launch-wizard-3
us-east-1b
172.31.41.200
1 pending
Cancel
Previous
Create target group

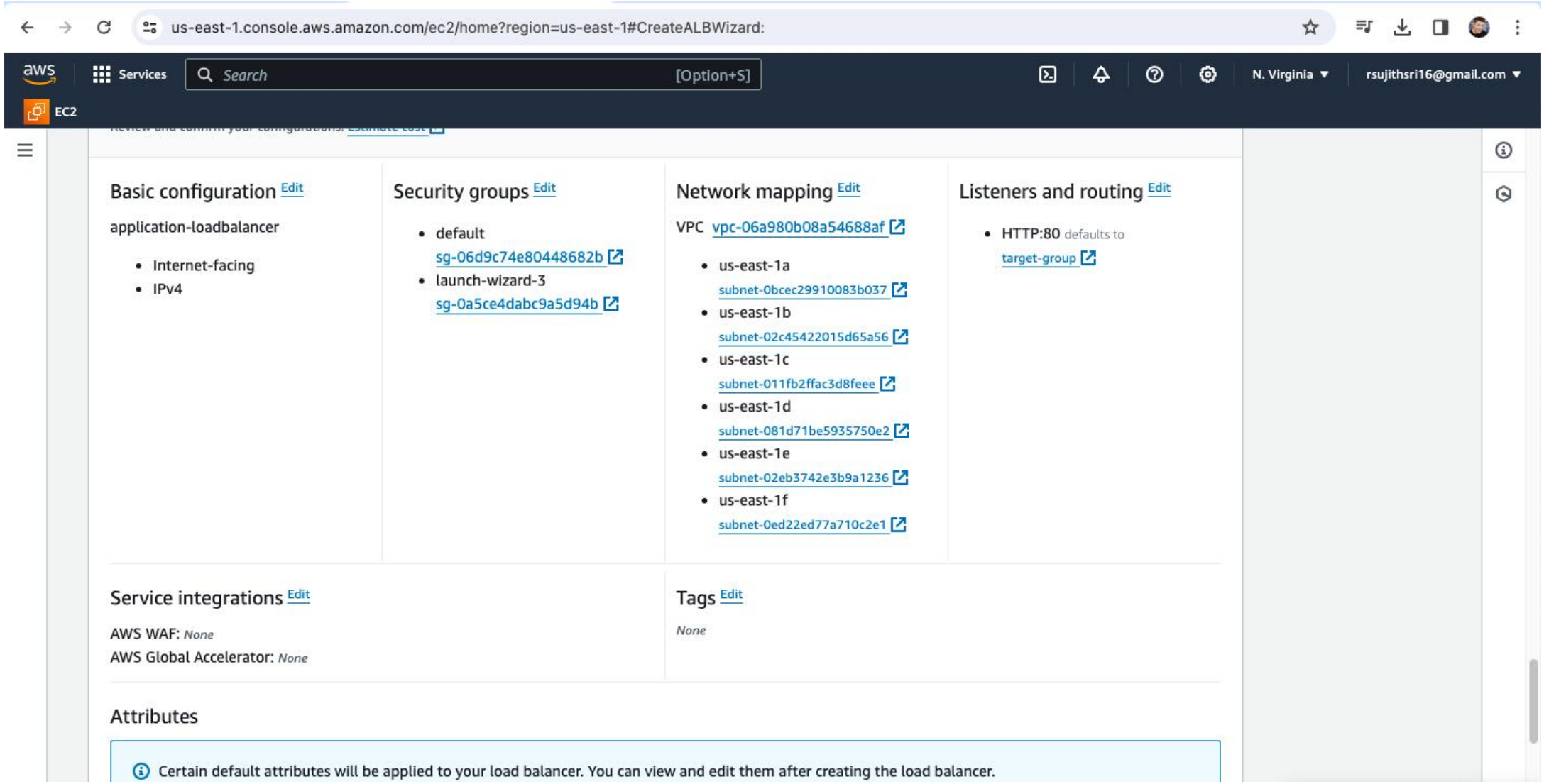

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#TargetGroup:targetGroupArn=arn:aws:elasticloadbalancing:us-east-1:602093162468:targe...
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Load Balancers
Target Groups
Trust Stores New
Auto Scaling
Auto Scaling Groups
Successfully created the target group: target-group. Anomaly detection is automatically applied to all registered targets. Results can be viewed in the Targets tab.
EC2 > Target groups > target-group
target-group
Actions
Details
arn:aws:elasticloadbalancing:us-east-1:602093162468:targetgroup/target-group/ca91849d2c68faf0
Target type
Instance
Protocol : Port
HTTP: 80
Protocol version
HTTP1
VPC
vpc-06a980b08a54688af
IP address type
IPv4
Load balancer
None associated
1
Total targets
0
Healthy
0 Anomalous
0
Unhealthy
1
Unused
0
Initial
0
Draining
Distribution of targets by Availability Zone (AZ)
Select values in this table to see corresponding filters applied to the Registered targets table below.

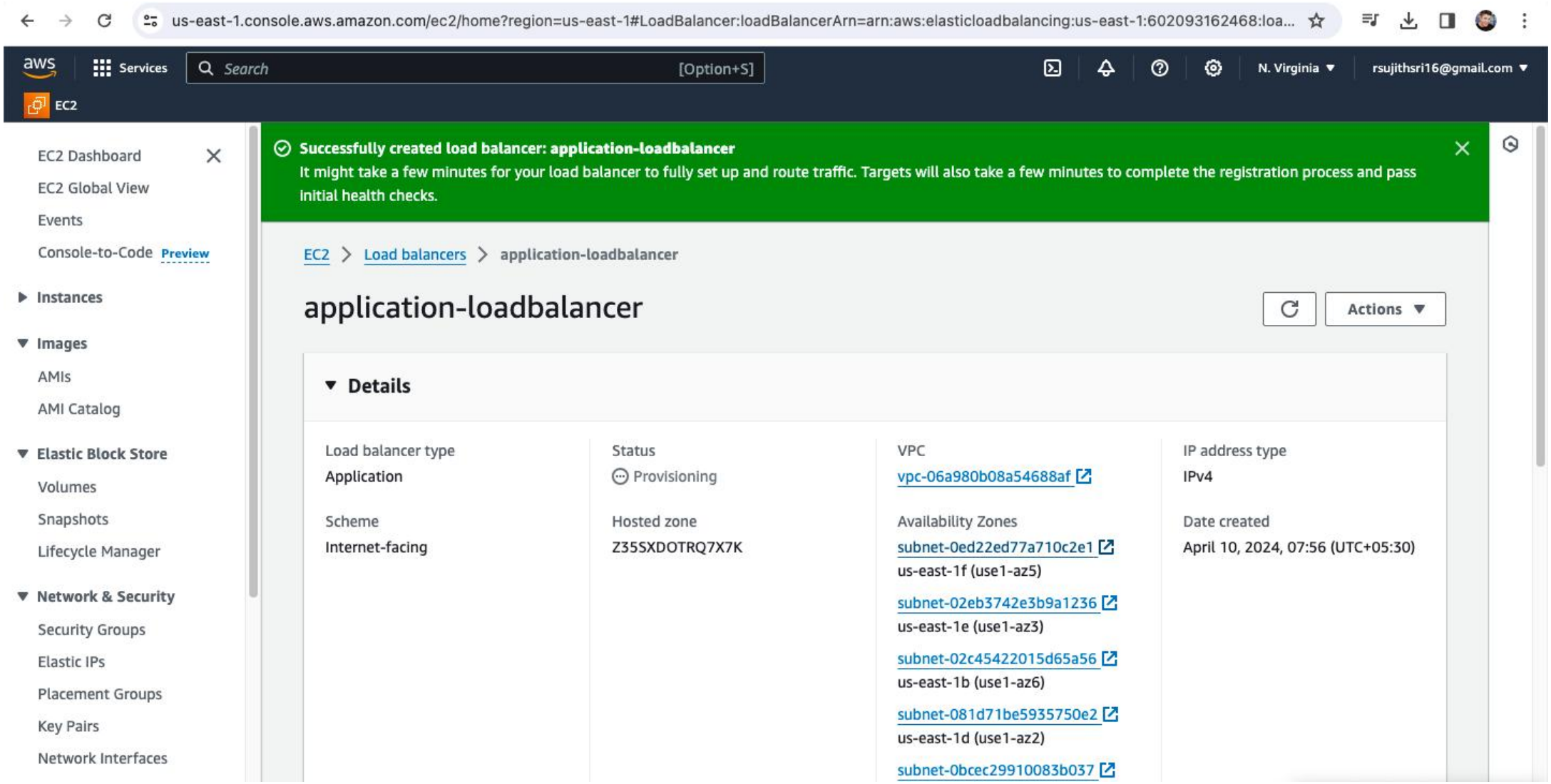

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateALBWizard:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
EC2 > Load balancers > Create Application Load Balancer
Create Application Load Balancer Info
The Application Load Balancer distributes incoming HTTP and HTTPS traffic across multiple targets such as Amazon EC2 instances, microservices, and containers, based on request attributes. When the load balancer receives a connection request, it evaluates the listener rules in priority order to determine which rule to apply, and if applicable, it selects a target from the target group for the rule action.
How Application Load Balancers work
Basic configuration
Load balancer name
Name must be unique within your AWS account and can't be changed after the load balancer is created.
application-loadbalancer
A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.
Scheme Info
Scheme can't be changed after the load balancer is created.
Internet-facing
An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. Learn more
Internal
An internal load balancer routes requests from clients to targets using private IP addresses.

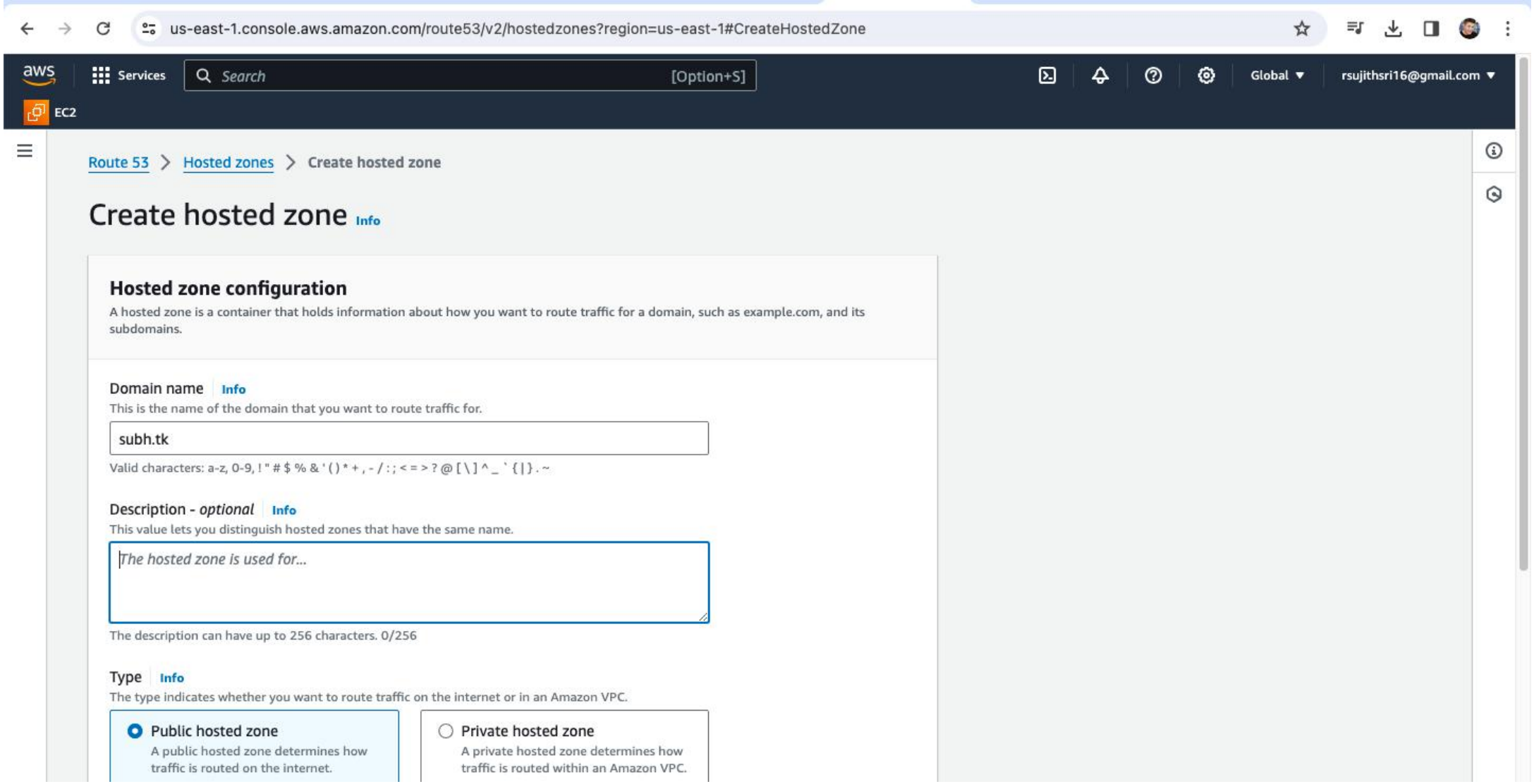

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateALBWizard:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
Network mapping Info
The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.
VPC Info
Select the virtual private cloud (VPC) for your targets or you can create a new VPC. Only VPCs with an internet gateway are enabled for selection. The selected VPC can't be changed after the load balancer is created. To confirm the VPC for your targets, view your target groups.
-
vpc-06a980b08a54688af
IPv4 VPC CIDR: 172.31.0.0/16
Mappings Info
Select at least two Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection.
us-east-1a (use1-az4)
Subnet
subnet-0bcec29910083b037
IPv4 address
Assigned by AWS
us-east-1b (use1-az6)
Subnet
subnet-02c45422015d65a56
IPv4 address
Assigned by AWS

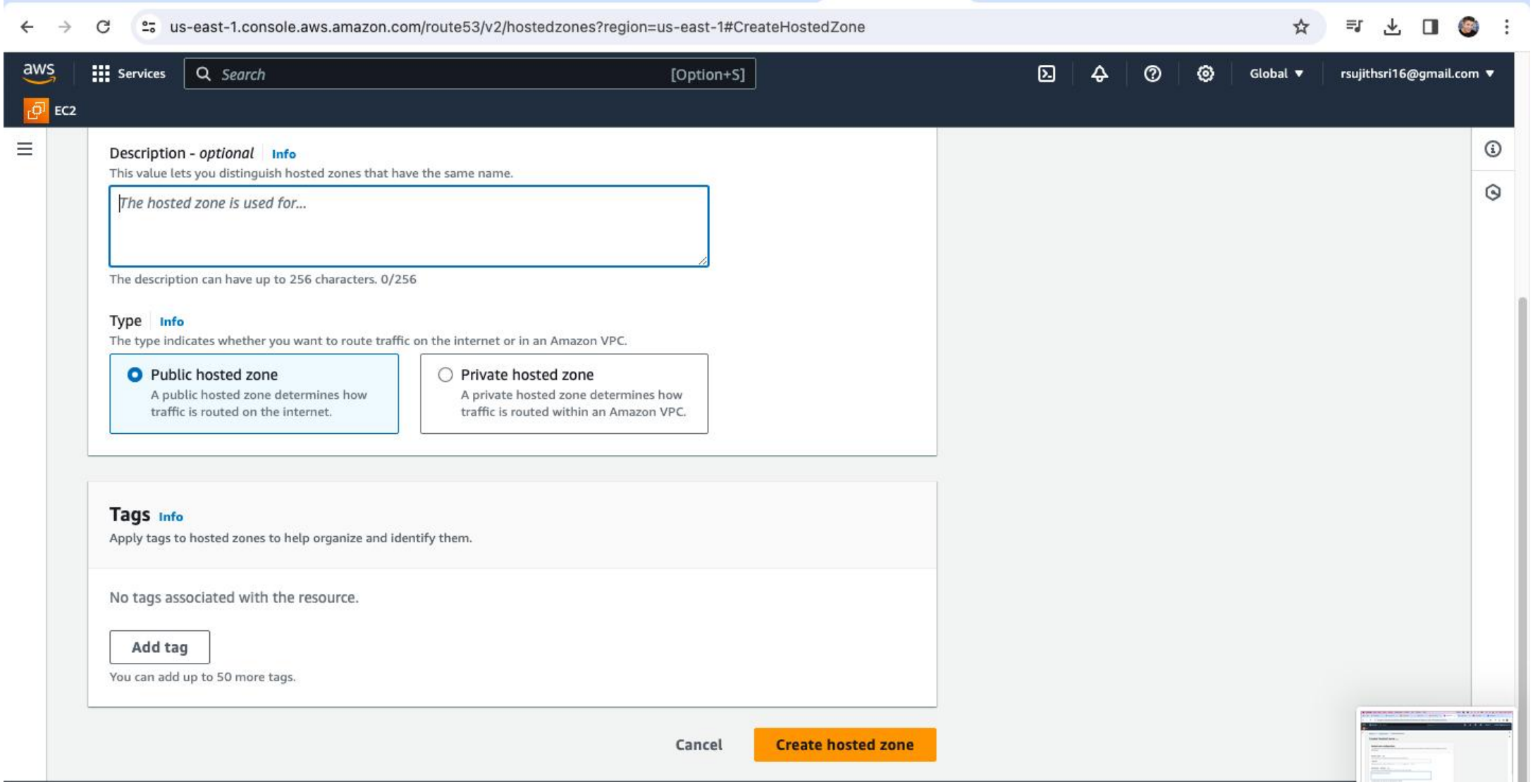

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateALBWizard:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
IPv4 address
Assigned by AWS
us-east-1f (use1-az5)
Subnet
subnet-0ed22ed77a710c2e1
IPv4 address
Assigned by AWS
Security groups Info
A security group is a set of firewall rules that control the traffic to your load balancer. Select an existing security group, or you can create a new security group.
Security groups
Select up to 5 security groups
default
sg-06d9c74e80448682b VPC: vpc-06a980b08a54688af
launch-wizard-3
sg-0a5ce4dabc9a5d94b VPC: vpc-06a980b08a54688af
Listeners and routing Info
A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the load balancer routes requests to its registered targets.

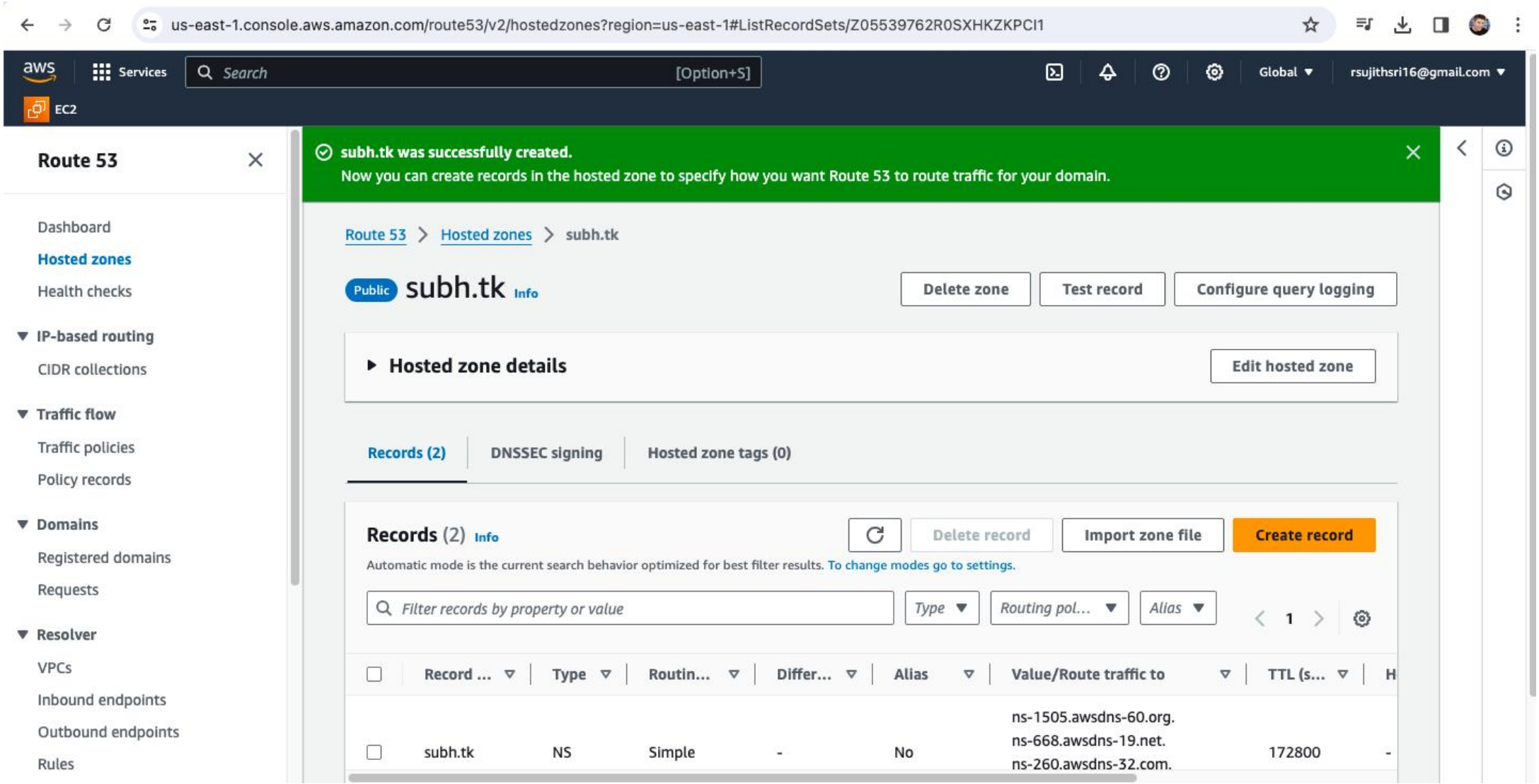

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateALBWizard:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
Listener HTTP:80
Remove
Protocol
Port
Default action
Info
HTTP
80
1-65535
Forward to
target-group
HTTP
Target type: Instance, IPv4
Create target group
Listener tags - optional
Consider adding tags to your listener. Tags enable you to categorize your AWS resources so you can more easily manage them.
Add listener tag
You can add up to 50 more tags.
Add listener
Load balancer tags - optional
Consider adding tags to your load balancer. Tags enable you to categorize your AWS resources so you can more easily manage them. The 'Key' is required, but 'Value' is optional. For example, you can have Key = production-webserver, or Key = webserver, and Value = production.
Optimize with service integrations - optional
Optimize your load balancing architecture by integrating AWS services with this load balancer at launch. You can also add these and other services after your load balancer is created by reviewing the load balancer's "Integrations" tab.

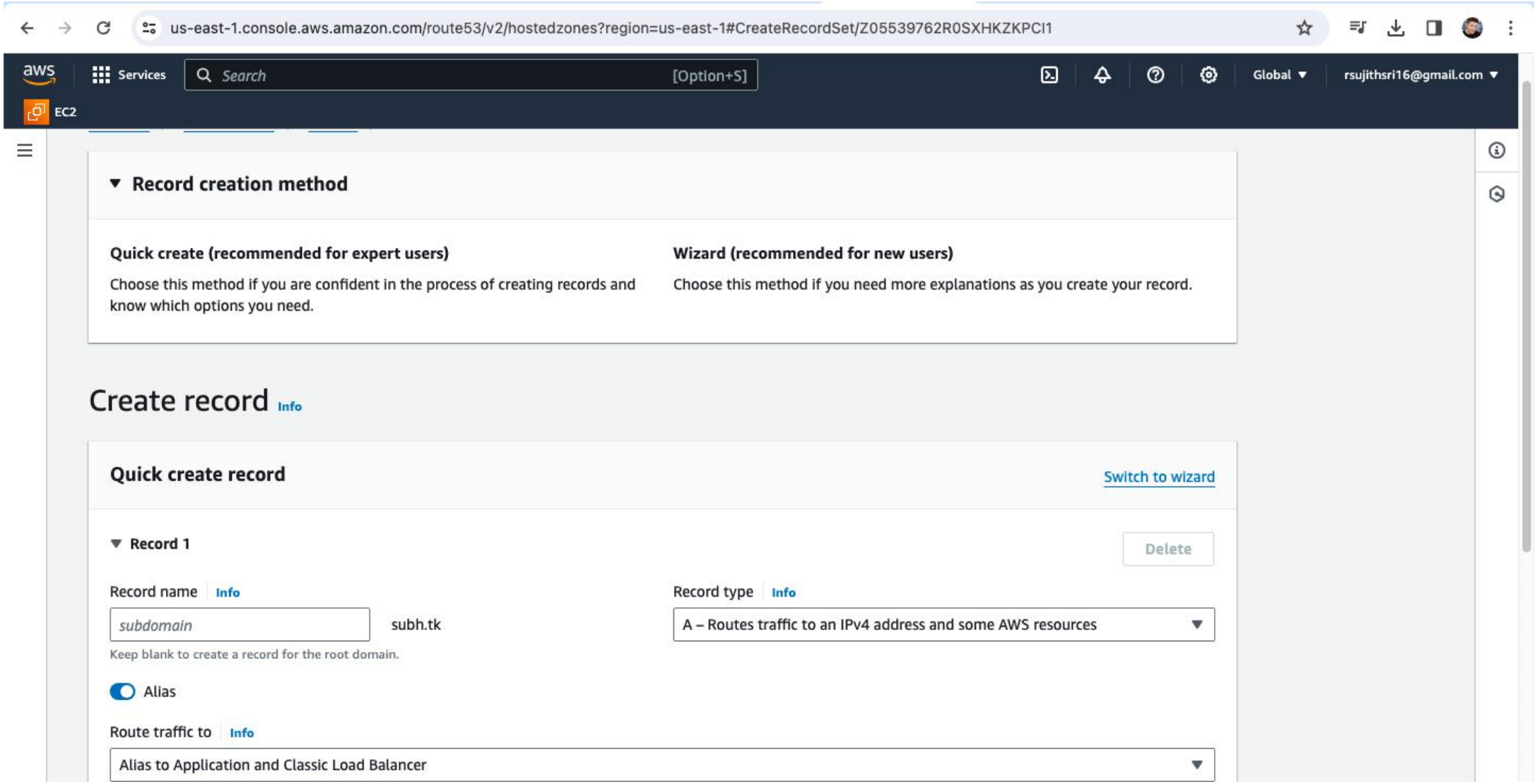

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateALBWizard:
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
Basic configuration Edit
application-loadbalancer
Internet-facing
IPv4
Security groups Edit
default
sg-06d9c74e80448682b
launch-wizard-3
sg-0a5ce4dabc9a5d94b
Network mapping Edit
VPC vpc-06a980b08a54688af
us-east-1a
subnet-0bcec29910083b037
us-east-1b
subnet-02c45422015d65a56
us-east-1c
subnet-011fb2ffac3d8feee
us-east-1d
subnet-081d71be5935750e2
us-east-1e
subnet-02eb3742e3b9a1236
us-east-1f
subnet-0ed22ed77a710c2e1
Listeners and routing Edit
HTTP:80 defaults to
target-group
Service integrations Edit
AWS WAF: None
AWS Global Accelerator: None
Tags Edit
None
Attributes
Certain default attributes will be applied to your load balancer. You can view and edit them after creating the load balancer.

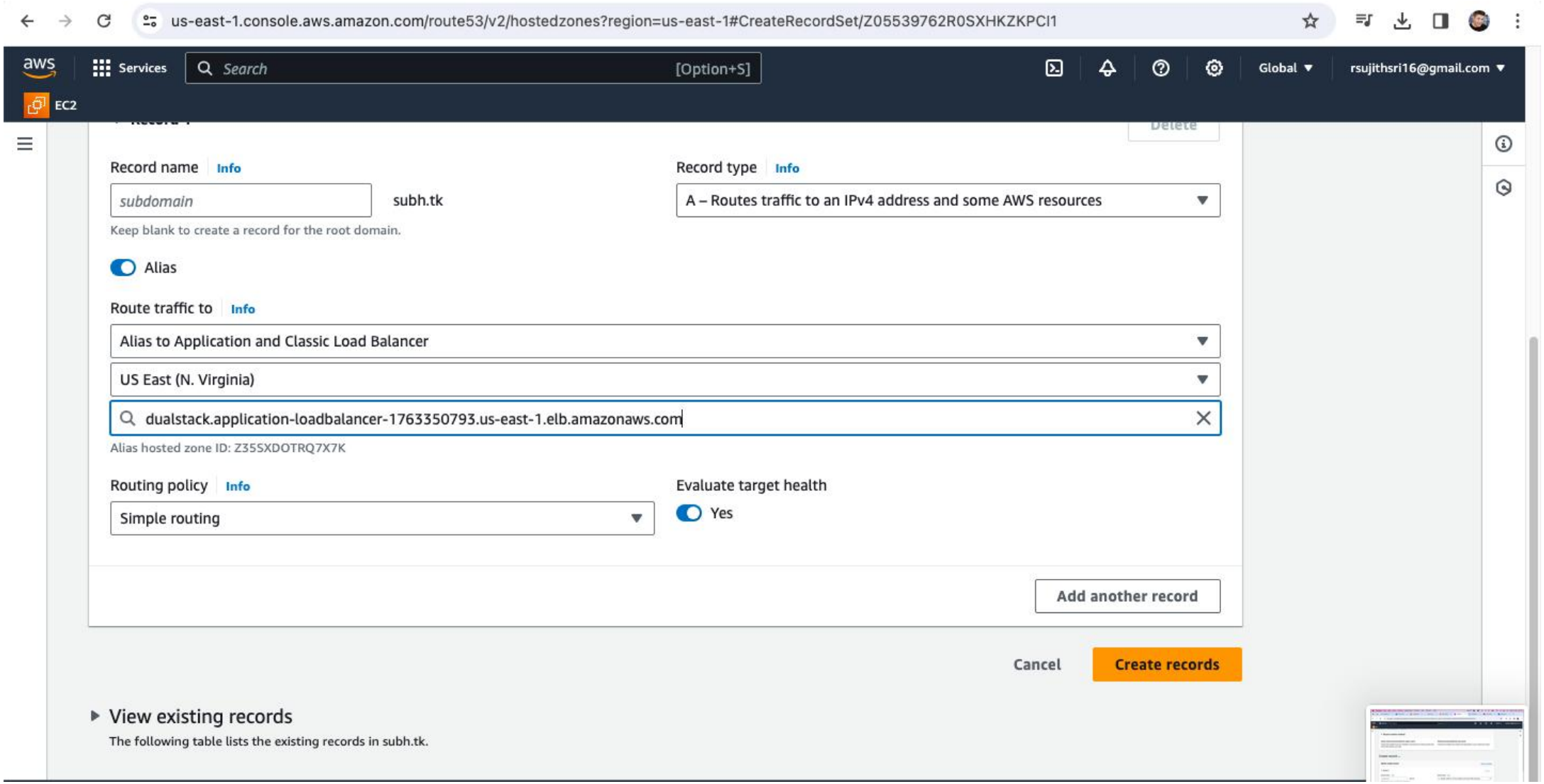

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LoadBalancer:loadBalancerArn=arn:aws:elasticloadbalancing:us-east-1:602093162468:loa...
aws
Services
Search
[Option+S]
N. Virginia
rsujithsri16@gmail.com
EC2
EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Successfully created load balancer: application-loadbalancer
It might take a few minutes for your load balancer to fully set up and route traffic. Targets will also take a few minutes to complete the registration process and pass initial health checks.
EC2 > Load balancers > application-loadbalancer
application-loadbalancer
Actions
Details
Load balancer type
Application
Status
Provisioning
VPC
vpc-06a980b08a54688af
IP address type
IPv4
Scheme
Internet-facing
Hosted zone
Z35SXDOTRQ7X7K
Availability Zones
subnet-0ed22ed77a710c2e1
us-east-1f (use1-az5)
subnet-02eb3742e3b9a1236
us-east-1e (use1-az3)
subnet-02c45422015d65a56
us-east-1b (use1-az6)
subnet-081d71be5935750e2
us-east-1d (use1-az2)
subnet-0bcec29910083b037
Date created
April 10, 2024, 07:56 (UTC+05:30)

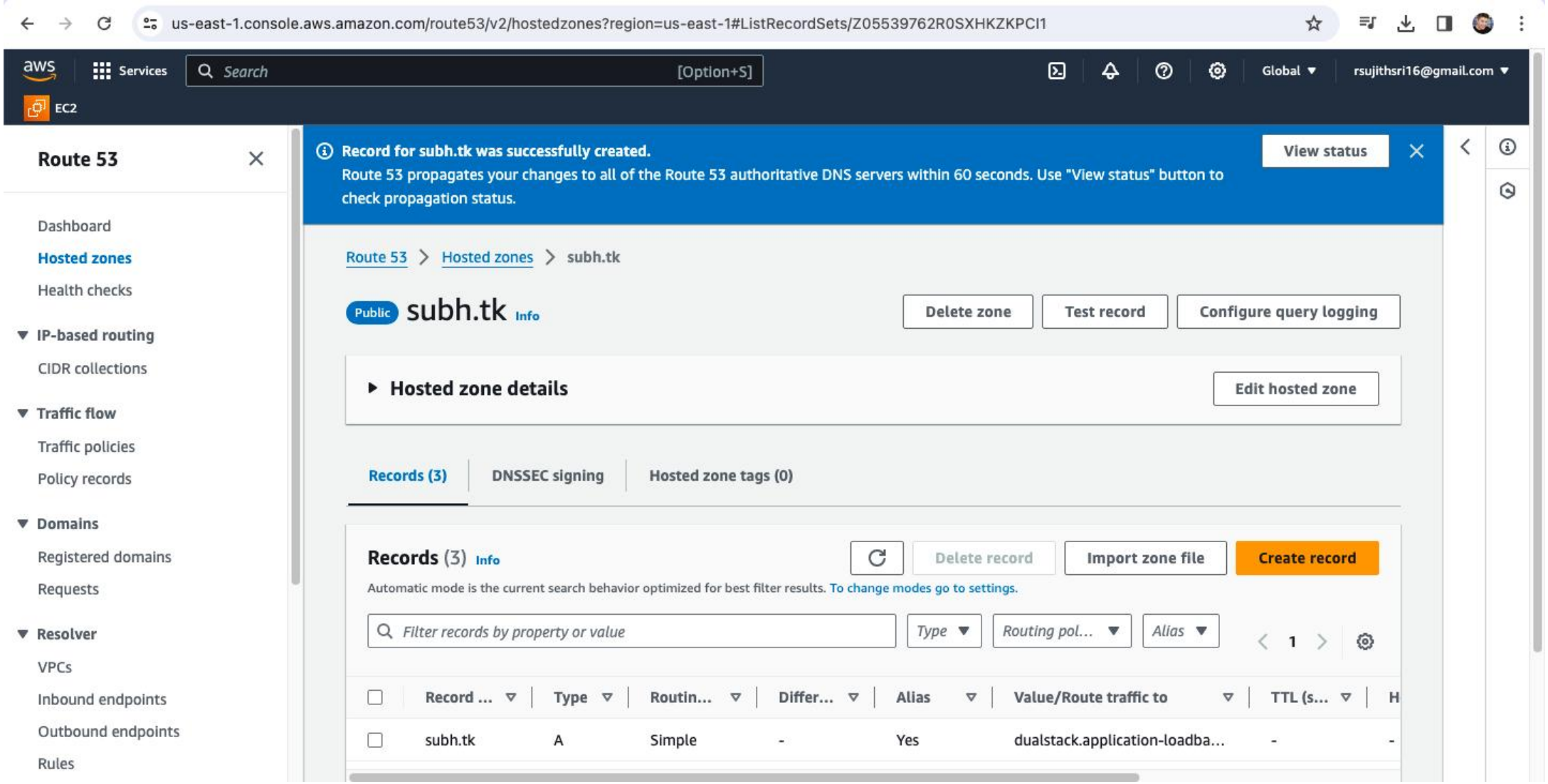

us-east-1.console.aws.amazon.com/route53/v2/hostedzones?region=us-east-1#CreateHostedZone
aws
Services
Search
[Option+S]
Global
rsujithsri16@gmail.com
EC2
Route 53
Hosted zones
Create hosted zone
Create hosted zone Info
Hosted zone configuration
A hosted zone is a container that holds information about how you want to route traffic for a domain, such as example.com, and its subdomains.
Domain name Info
This is the name of the domain that you want to route traffic for.
subh.tk
Valid characters: a-z, 0-9, ! " # $ % & ' ( ) * + , - / : ; < = > ? @ [\ ] ^ _ ` { | } . ~
Description - optional Info
This value lets you distinguish hosted zones that have the same name.
The hosted zone is used for...
The description can have up to 256 characters. 0/256
Type Info
The type indicates whether you want to route traffic on the internet or in an Amazon VPC.
Public hosted zone
A public hosted zone determines how traffic is routed on the internet.
Private hosted zone
A private hosted zone determines how traffic is routed within an Amazon VPC.

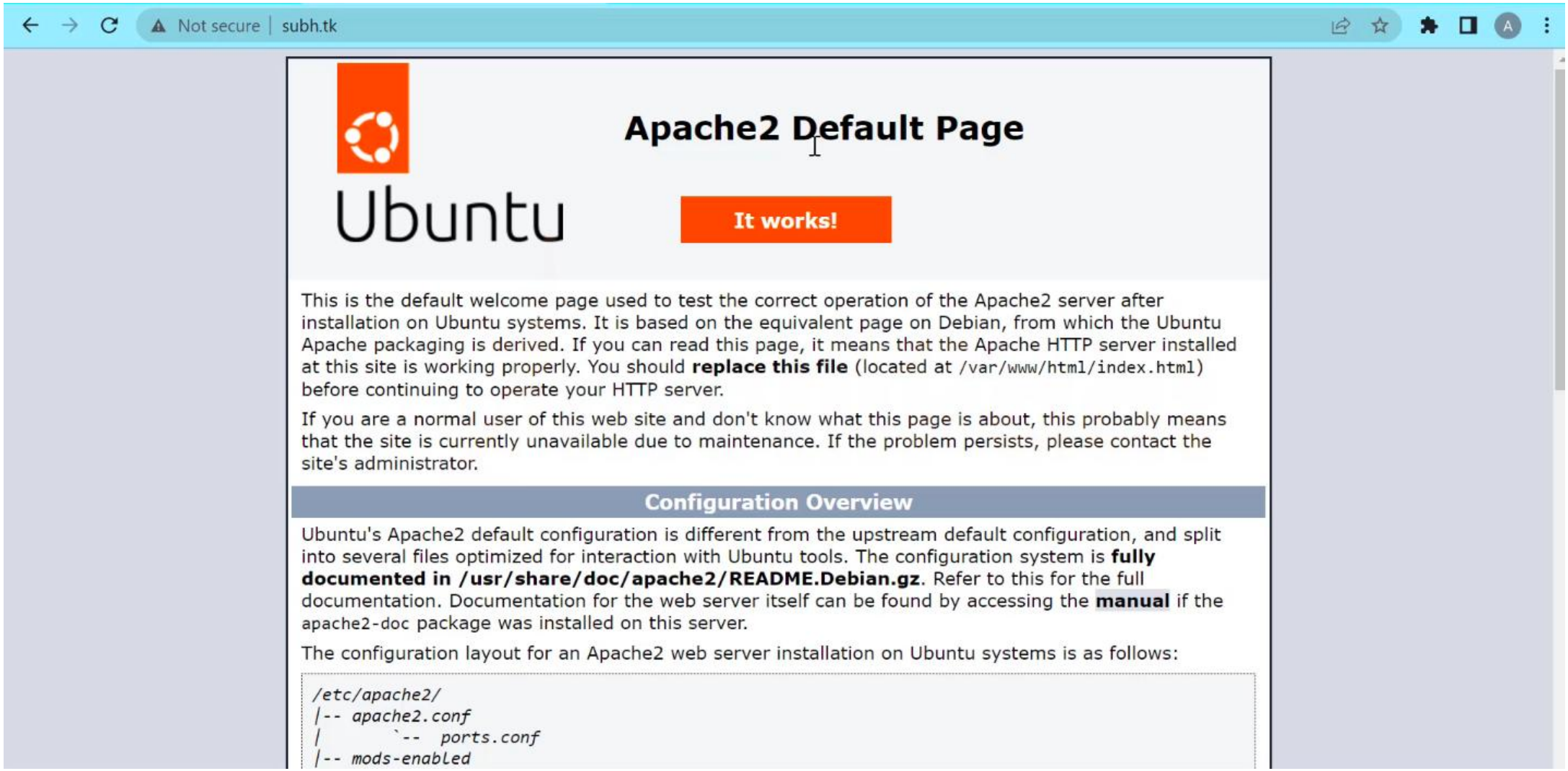

us-east-1.console.aws.amazon.com/route53/v2/hostedzones?region=us-east-1#CreateHostedZone
aws
Services
Search
[Option+S]
Global
rsujithsri16@gmail.com
EC2
Description - optional Info
This value lets you distinguish hosted zones that have the same name.
The hosted zone is used for...
The description can have up to 256 characters. 0/256
Type Info
The type indicates whether you want to route traffic on the internet or in an Amazon VPC.
Public hosted zone
A public hosted zone determines how traffic is routed on the internet.
Private hosted zone
A private hosted zone determines how traffic is routed within an Amazon VPC.
Tags Info
Apply tags to hosted zones to help organize and identify them.
No tags associated with the resource.
Add tag
You can add up to 50 more tags.
Cancel
Create hosted zone


us-east-1.console.aws.amazon.com/route53/v2/hostedzones?region=us-east-1#ListRecordSets/Z05539762R0SXHKZKPCI1
aws
Services
Search
[Option+S]
Global
rsujithsri16@gmail.com
EC2
Route 53
Dashboard
Hosted zones
Health checks
IP-based routing
CIDR collections
Traffic flow
Traffic policies
Policy records
Domains
Registered domains
Requests
Resolver
VPCs
Inbound endpoints
Outbound endpoints
Rules
subh.tk was successfully created.
Now you can create records in the hosted zone to specify how you want Route 53 to route traffic for your domain.
Route 53 > Hosted zones > subh.tk
Public
subh.tk Info
Delete zone
Test record
Configure query logging
Hosted zone details
Edit hosted zone
Records (2)
DNSSEC signing
Hosted zone tags (0)
Records (2) Info
Delete record
Import zone file
Create record
Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.
Filter records by property or value
Type
Routing pol...
Alias
1
Record ...
Type
Routin...
Differ...
Alias
Value/Route traffic to
TTL (s...
H
subh.tk
NS
Simple
-
No
ns-1505.awsdns-60.org.
ns-668.awsdns-19.net.
ns-260.awsdns-32.com.
172800
-


us-east-1.console.aws.amazon.com/route53/v2/hostedzones?region=us-east-1#CreateRecordSet/Z05539762R0SXHKZKPCI1
aws
Services
Search
[Option+S]
Global
rsujithsri16@gmail.com
EC2
Record creation method
Quick create (recommended for expert users)
Choose this method if you are confident in the process of creating records and know which options you need.
Wizard (recommended for new users)
Choose this method if you need more explanations as you create your record.
Create record
Info
Quick create record
Switch to wizard
Record 1
Delete
Record name
Info
subdomain
subh.tk
Keep blank to create a record for the root domain.
Record type
Info
A – Routes traffic to an IPv4 address and some AWS resources
Alias
Route traffic to
Info
Alias to Application and Classic Load Balancer


us-east-1.console.aws.amazon.com/route53/v2/hostedzones?region=us-east-1#CreateRecordSet/Z05539762R0SXHKZKPCI1
aws
Services
Search
[Option+S]
Global
rsujithsri16@gmail.com
EC2
Delete
Record name Info
subdomain
subh.tk
Keep blank to create a record for the root domain.
Record type Info
A – Routes traffic to an IPv4 address and some AWS resources
Alias
Route traffic to Info
Alias to Application and Classic Load Balancer
US East (N. Virginia)
dualstack.application-loadbalancer-1763350793.us-east-1.elb.amazonaws.com
Alias hosted zone ID: Z35SXDOTRQ7X7K
Routing policy Info
Simple routing
Evaluate target health
Yes
Add another record
Cancel
Create records
View existing records
The following table lists the existing records in subh.tk.


us-east-1.console.aws.amazon.com/route53/v2/hostedzones?region=us-east-1#ListRecordSets/Z05539762R0SXHKZKPCI1
aws
Services
Search
[Option+S]
Global
rsujithsri16@gmail.com
EC2
Route 53
Dashboard
Hosted zones
Health checks
IP-based routing
CIDR collections
Traffic flow
Traffic policies
Policy records
Domains
Registered domains
Requests
Resolver
VPCs
Inbound endpoints
Outbound endpoints
Rules
Record for subh.tk was successfully created.
Route 53 propagates your changes to all of the Route 53 authoritative DNS servers within 60 seconds. Use "View status" button to check propagation status.
View status
Route 53 > Hosted zones > subh.tk
Public
subh.tk
Info
Delete zone
Test record
Configure query logging
Hosted zone details
Edit hosted zone
Records (3)
DNSSEC signing
Hosted zone tags (0)
Records (3)
Info
Delete record
Import zone file
Create record
Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.
Filter records by property or value
Type
Routing pol...
Alias
1
Record ...
Type
Routin...
Differ...
Alias
Value/Route traffic to
TTL (s...
H
subh.tk
A
Simple
-
Yes
dualstack.application-loadba...
-
-


Not secure | subh.tk
Apache2 Default Page
Ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled