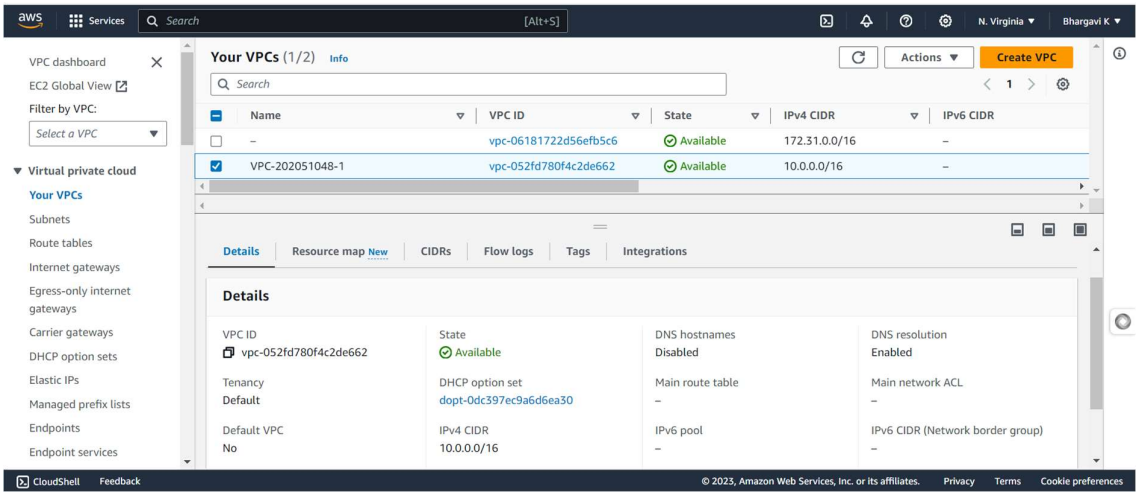
Name: Bhargavi Kamble

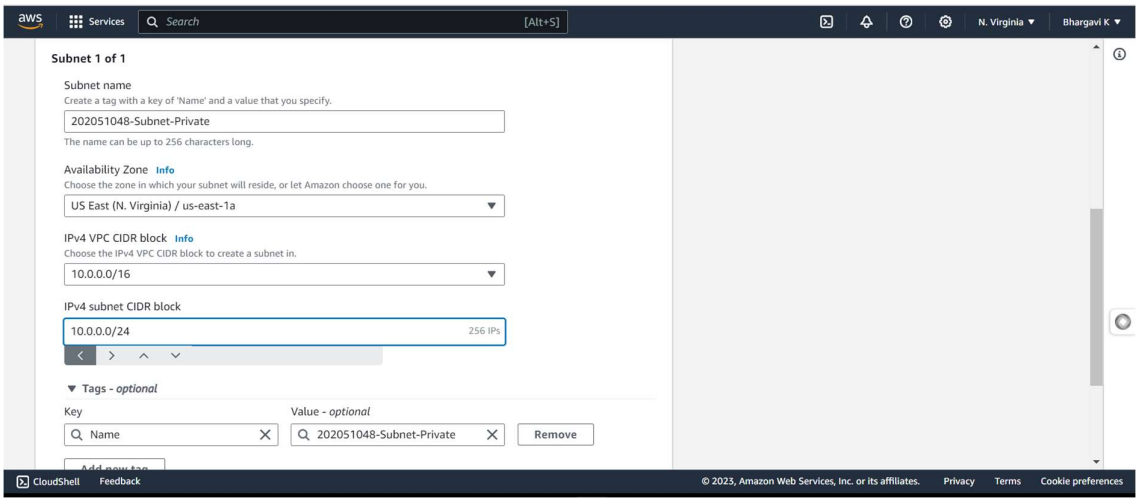
Student ID: 202051048

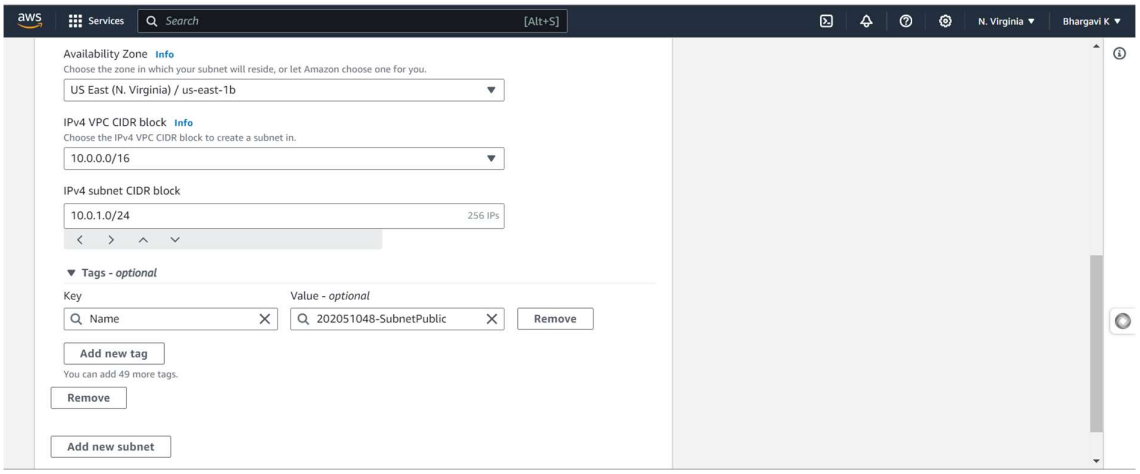
Assessment 9: VPC Peering

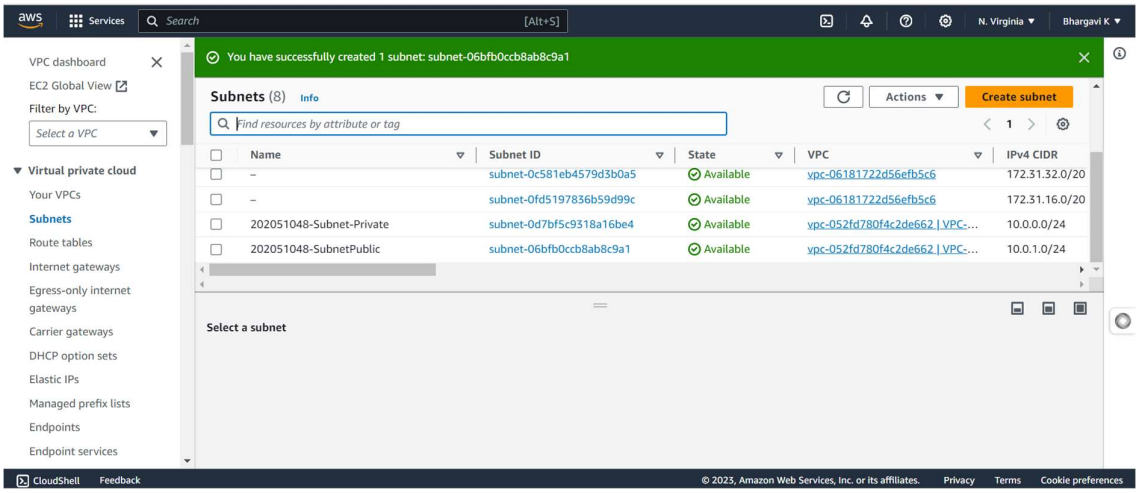
For this assignment I've created 2 VPC's in two different regions. I'll try to ping the private instance of Mumbai region from public instance of Virginia region.

This is the first VPC:

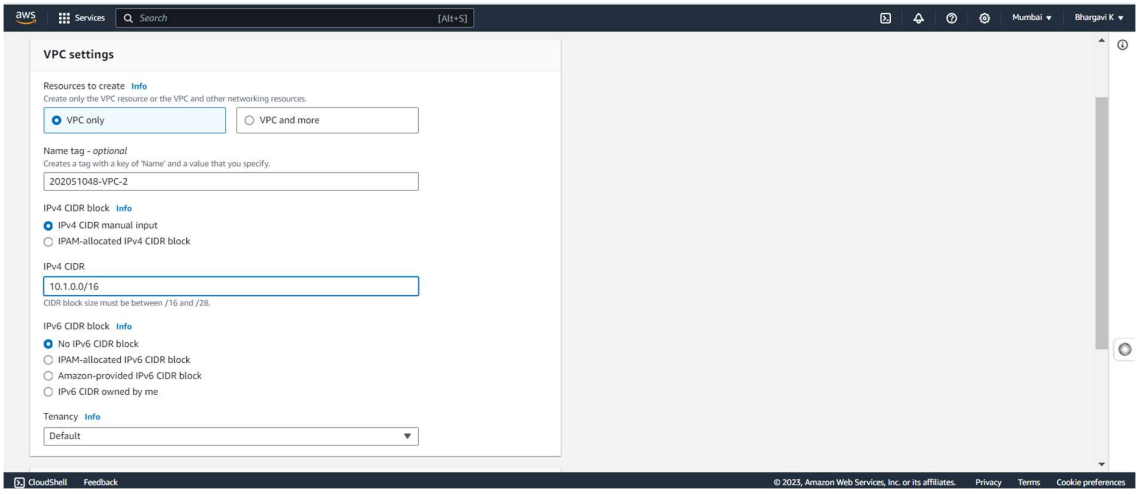


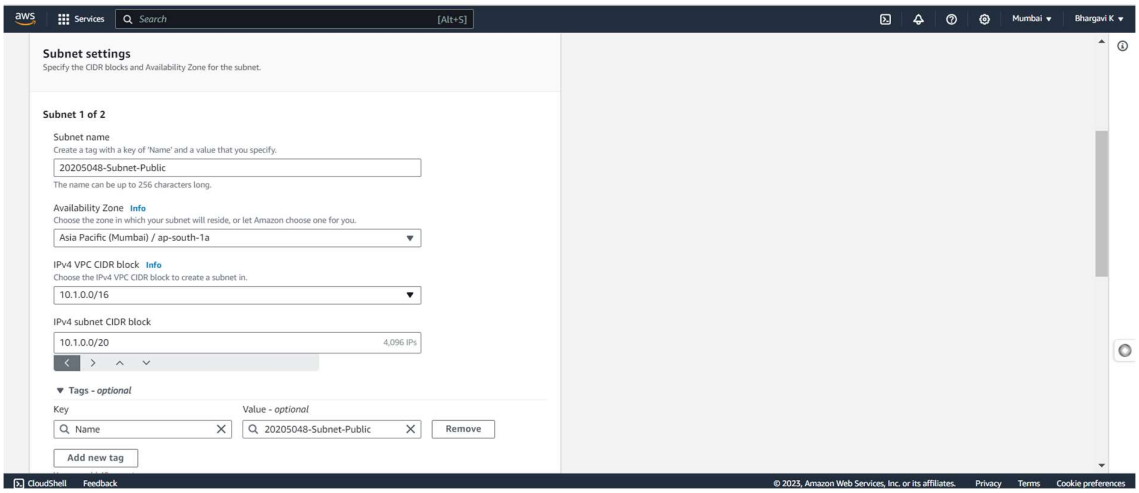






The subnets are created.




Services
Search
[Alt+S]
Mumbai
Bhargavi K
Subnet settings
Specify the CIDR blocks and Availability Zone for the subnet.
Subnet 1 of 2
Subnet name
Create a tag with a key of 'Name' and a value that you specify.
20205048-Subnet-Public
The name can be up to 256 characters long.
Availability Zone Info
Choose the zone in which your subnet will reside, or let Amazon choose one for you.
Asia Pacific (Mumbai) / ap-south-1a
IPv4 VPC CIDR block Info
Choose the IPv4 VPC CIDR block to create a subnet in.
10.1.0.0/16
IPv4 subnet CIDR block
10.1.0.0/20
4,096 IPs
Tags - optional
Key
Value - optional
Name
20205048-Subnet-Public
Remove
Add new tag
CloudShell
Feedback
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Privacy
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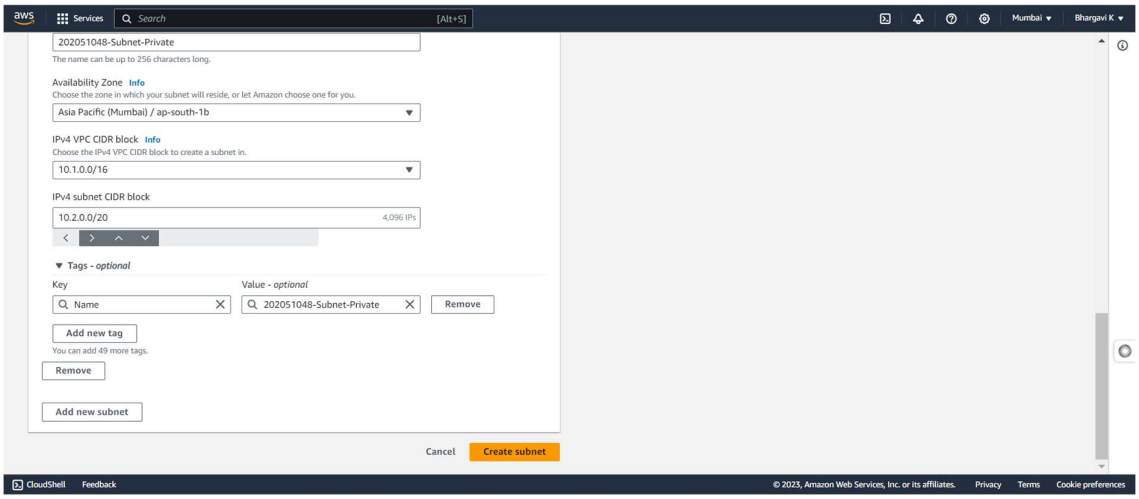
Services
Search
[Alt+S]
Mumbai
Bhargavi K
202051048-Subnet-Private
The name can be up to 256 characters long.
Availability Zone Info
Choose the zone in which your subnet will reside, or let Amazon choose one for you.
Asia Pacific (Mumbai) / ap-south-1b
IPv4 VPC CIDR block Info
Choose the IPv4 VPC CIDR block to create a subnet in.
10.1.0.0/16
IPv4 subnet CIDR block
10.2.0.0/20
4,096 IPs
Tags - optional
Key
Value - optional
Name
202051048-Subnet-Private
Remove
Add new tag
You can add 49 more tags.
Remove
Add new subnet
Cancel
Create subnet
CloudShell
Feedback
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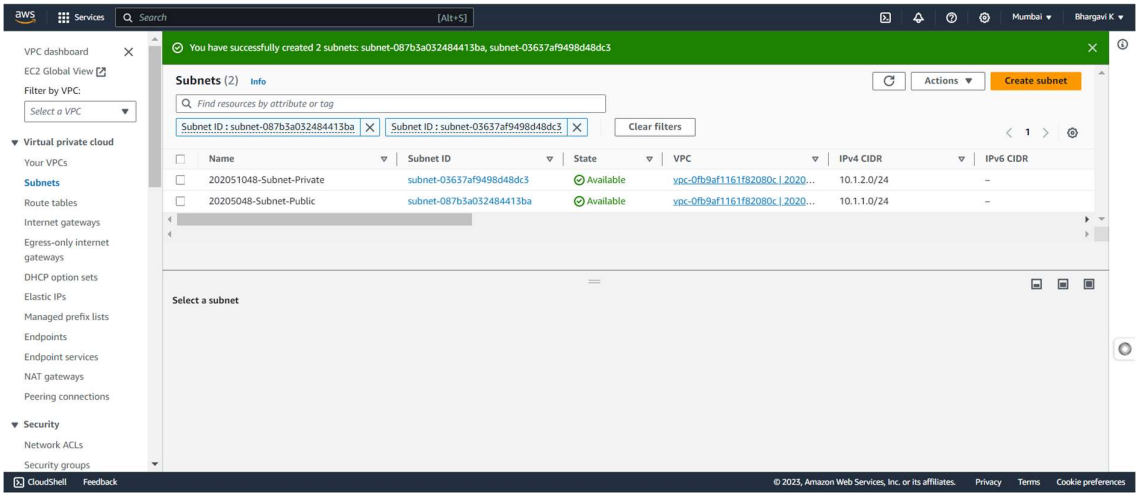
Terms
Cookie preferences


Services
Search
[Alt+S]
Mumbai
Bhargavi K
VPC dashboard
EC2 Global View
Filter by VPC:
Select a VPC
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
Endpoints
Endpoint services
NAT gateways
Peering connections
Security
Network ACLs
Security groups
You have successfully created 2 subnets: subnet-087b3a032484413ba, subnet-03637af9498d48dc3
Subnets (2) Info
Actions
Create subnet
Find resources by attribute or tag
Subnet ID : subnet-087b3a032484413ba
Subnet ID : subnet-03637af9498d48dc3
Clear filters
Name
Subnet ID
State
VPC
IPv4 CIDR
IPv6 CIDR
202051048-Subnet-Private
subnet-03637af9498d48dc3
Available
vpc-0fb9af1161f82080c | 2020...
10.1.2.0/24
20205048-Subnet-Public
subnet-087b3a032484413ba
Available
vpc-0fb9af1161f82080c | 2020...
10.1.1.0/24
Select a subnet
CloudShell
Feedback
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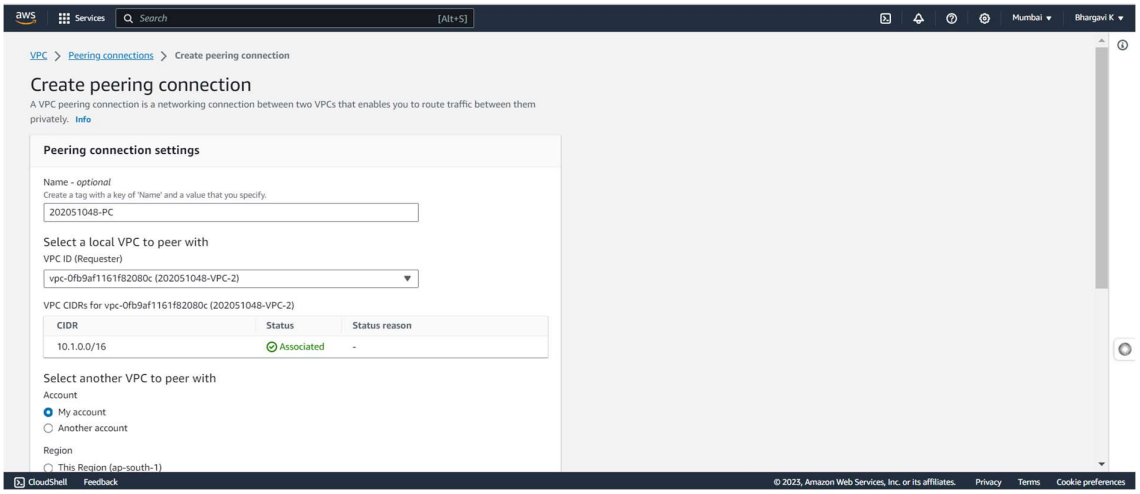
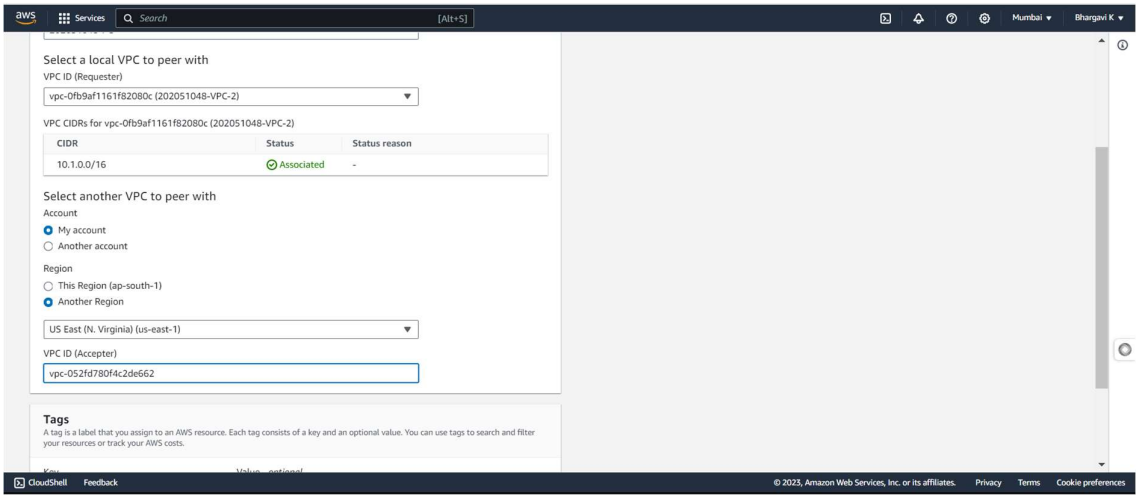
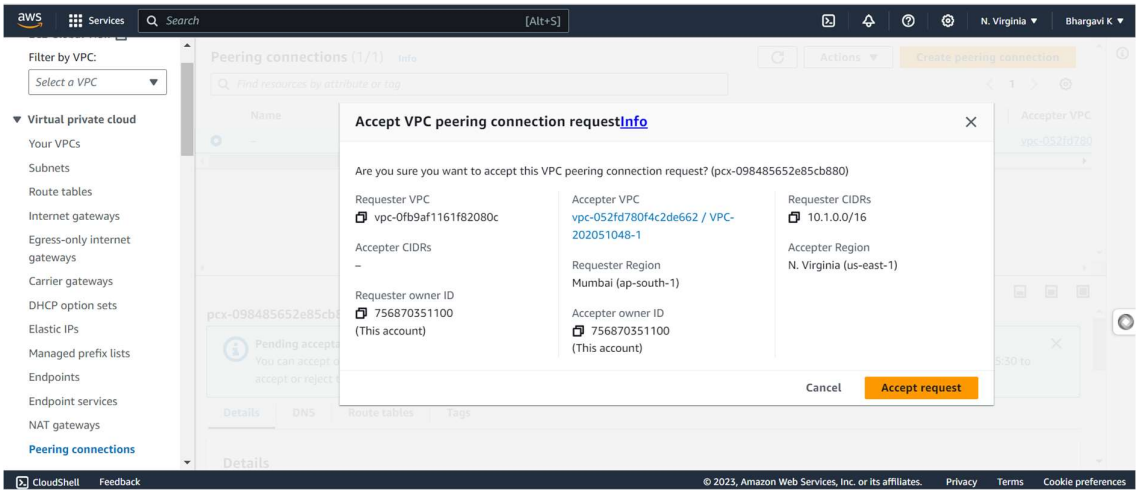
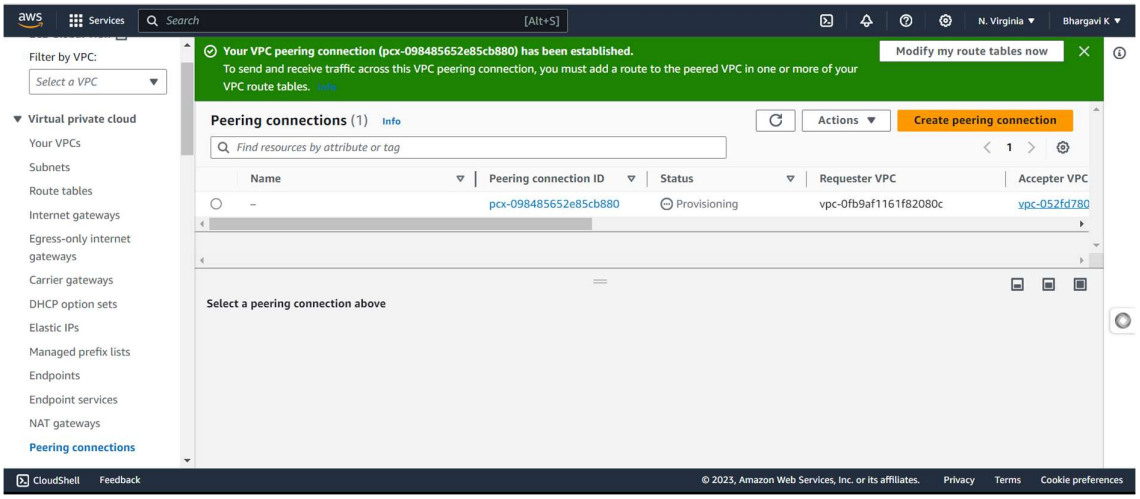
We'll then start the peering connection:

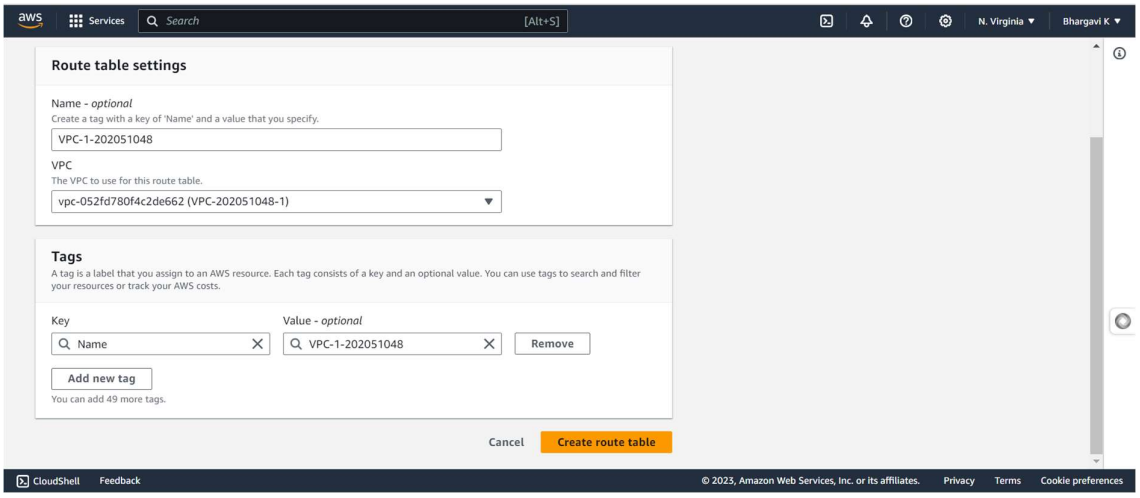


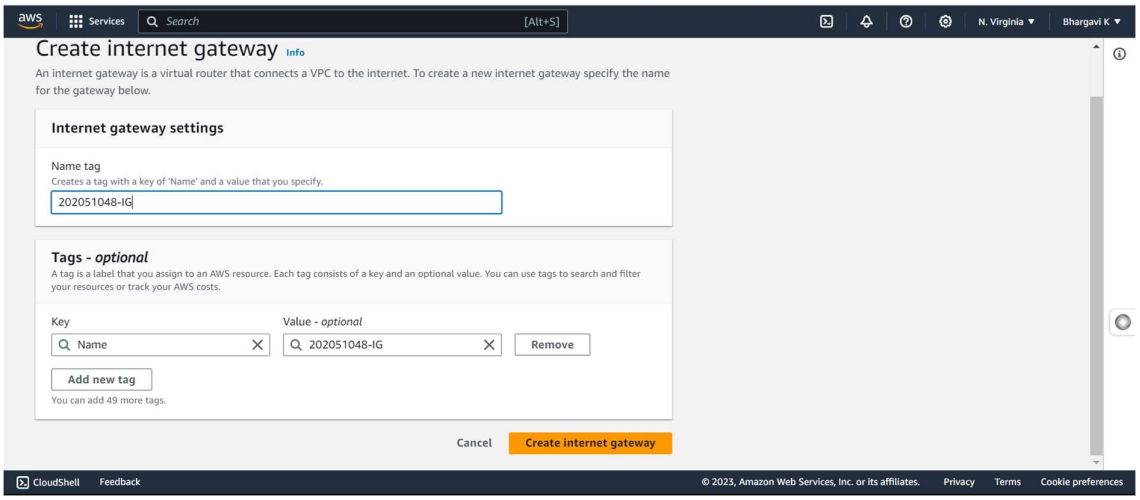


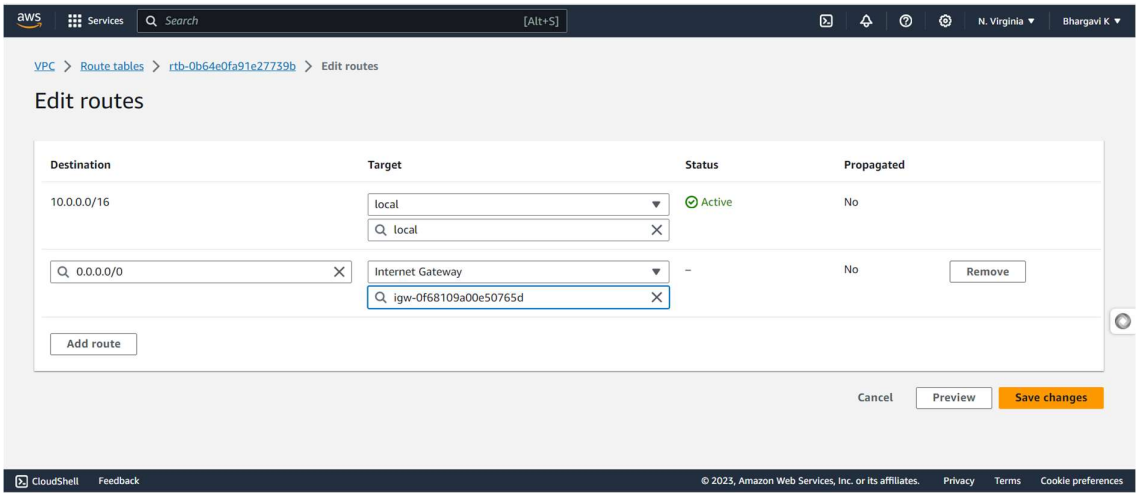




Edit the route table.






aws
Services
Search
[Alt+S]
N. Virginia
Bhargavi K
VPC > Route tables > rtb-0b64e0fa91e27739b > Edit routes
Edit routes
Destination
Target
Status
Propagated
10.0.0.0/16
local
local
Active
No
0.0.0.0/0
Internet Gateway
igw-0f68109a00e50765d
–
No
Remove
Add route
Cancel
Preview
Save changes
CloudShell
Feedback
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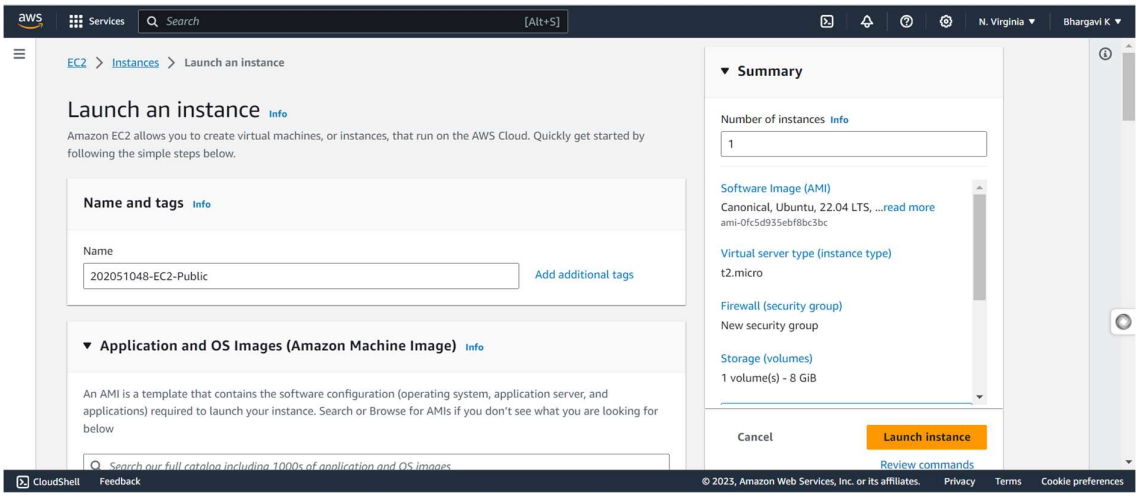
aws
Services
Search
[Alt+S]
N. Virginia
Bhargavi K
EC2 > Instances > Launch an instance
Launch an instance Info
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name
202051048-EC2-Public
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
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-0fc5d935ebf8bc3bc
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Review commands
CloudShell
Feedback
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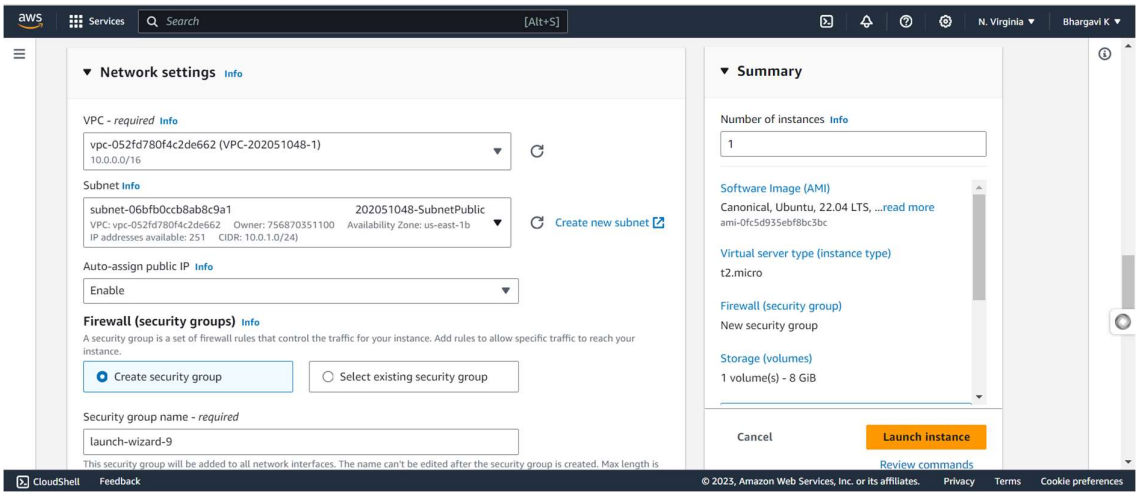
aws
Services
Search
[Alt+S]
N. Virginia
Bhargavi K
Network settings Info
VPC - required Info
vpc-052fd780f4c2de662 (VPC-202051048-1)
10.0.0.0/16
Subnet Info
subnet-06bfb0ccb8ab8c9a1
202051048-SubnetPublic
VPC: vpc-052fd780f4c2de662 Owner: 756870351100 Availability Zone: us-east-1b
IP addresses available: 251 CIDR: 10.0.1.0/24)
Create new subnet
Auto-assign public IP Info
Enable
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-9
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
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-0fc5d935ebf8bc3bc
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Review commands
CloudShell
Feedback
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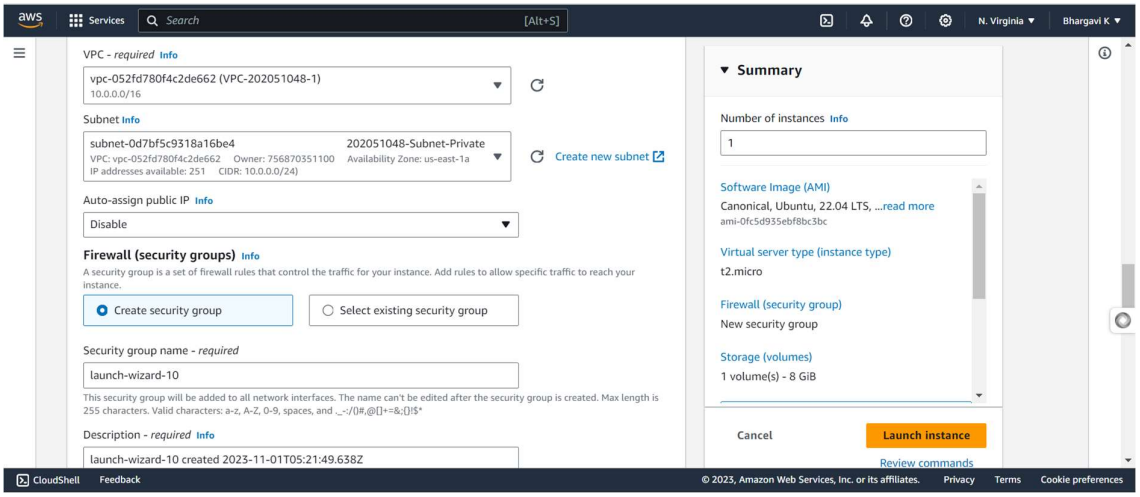
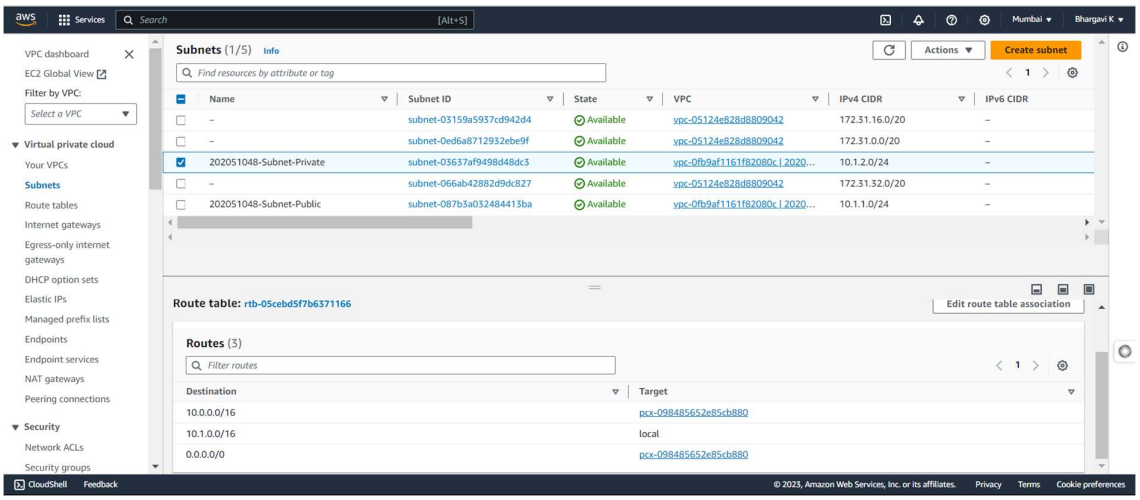
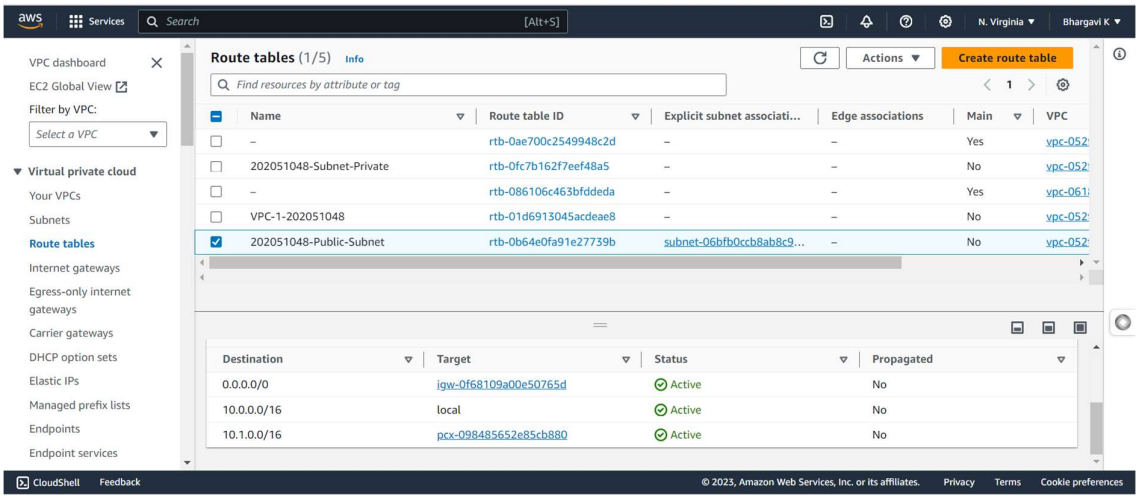
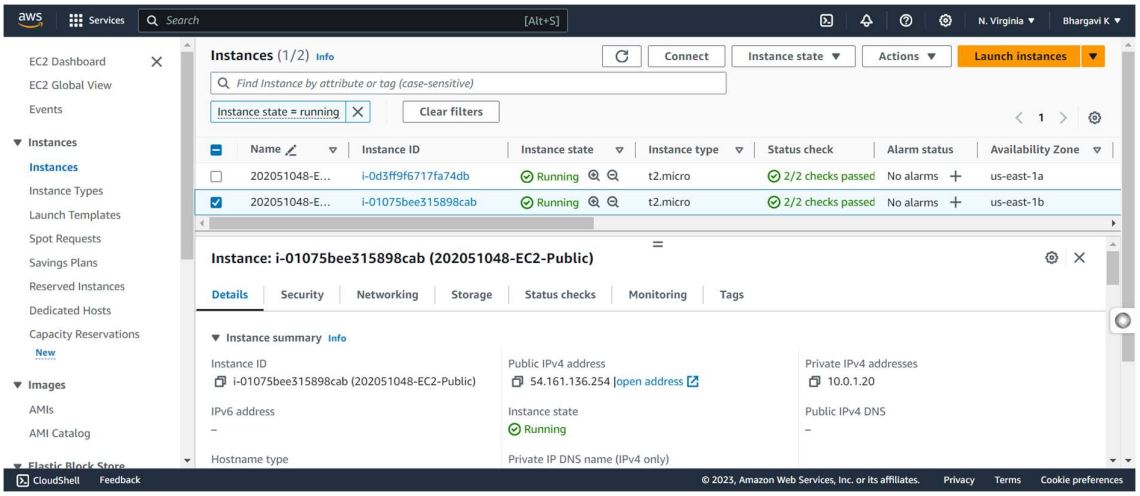




The destination of the second VPC has been added here and target of peering connection have been added here.




Services
Search
[Alt+S]
N. Virginia
Bhargavi K
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
202051048-E...
i-0d3ff9f6717fa74db
Running
t2.micro
2/2 checks passed
No alarms
us-east-1a
202051048-E...
i-01075bee315898cab
Running
t2.micro
2/2 checks passed
No alarms
us-east-1b
Instance: i-01075bee315898cab (202051048-EC2-Public)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-01075bee315898cab (202051048-EC2-Public)
Public IPv4 address
54.161.136.254 |open address
Private IPv4 addresses
10.0.1.20
IPv6 address
Instance state
Running
Public IPv4 DNS
Hostname type
Private IP DNS name (IPv4 only)
CloudShell
Feedback
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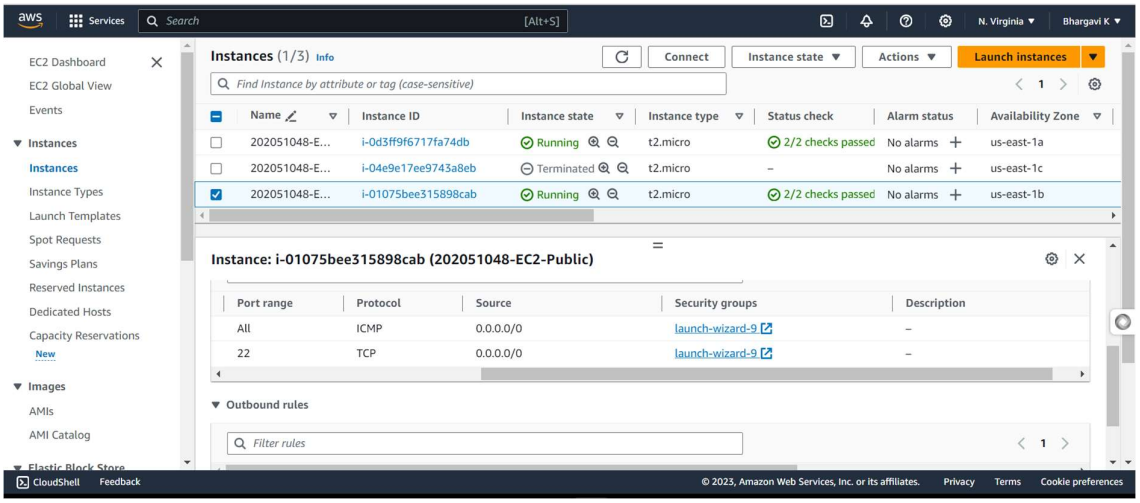
Services
Search
[Alt+S]
N. Virginia
Bhargavi K
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Instances (1/3) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
202051048-E...
i-0d3ff9f6717fa74db
Running
t2.micro
2/2 checks passed
No alarms
us-east-1a
202051048-E...
i-04e9e17ee9743a8eb
Terminated
t2.micro
–
No alarms
us-east-1c
202051048-E...
i-01075bee315898cab
Running
t2.micro
2/2 checks passed
No alarms
us-east-1b
Instance: i-01075bee315898cab (202051048-EC2-Public)
Port range
Protocol
Source
Security groups
Description
All
ICMP
0.0.0.0/0
launch-wizard-9
–
22
TCP
0.0.0.0/0
launch-wizard-9
–
Outbound rules
Filter rules
CloudShell
Feedback
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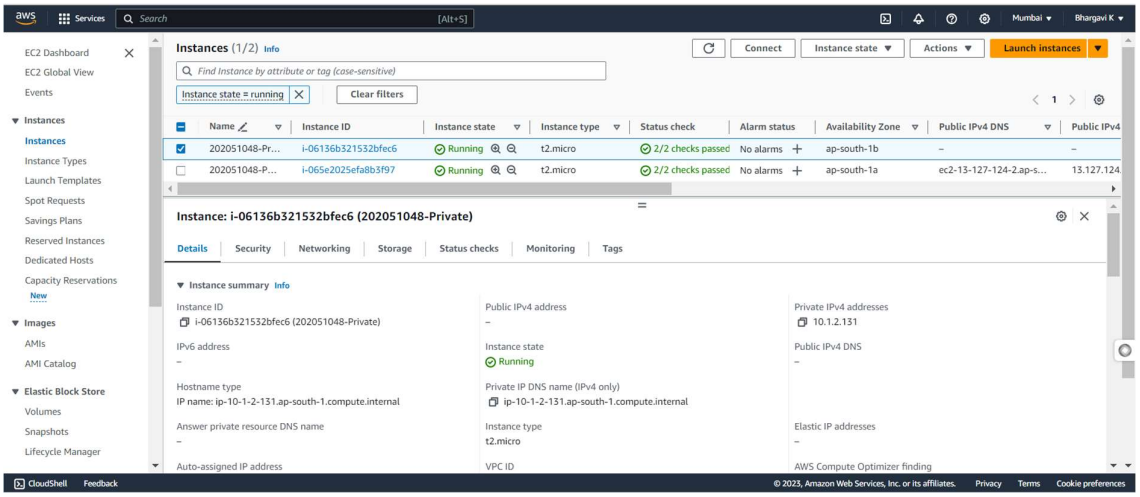
Cookie preferences


Services
Search
[Alt+S]
Mumbai
Bhargavi K
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
Public IPv4
202051048-Pr...
i-06136b321532bfec6
Running
t2.micro
2/2 checks passed
No alarms
ap-south-1b
–
–
202051048-P...
i-065e2025efa8b3f97
Running
t2.micro
2/2 checks passed
No alarms
ap-south-1a
ec2-13-127-124-2.ap-s...
13.127.124
Instance: i-06136b321532bfec6 (202051048-Private)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-06136b321532bfec6 (202051048-Private)
Public IPv4 address
–
Private IPv4 addresses
10.1.2.131
IPv6 address
–
Instance state
Running
Public IPv4 DNS
–
Hostname type
IP name: ip-10-1-2-131.ap-south-1.compute.internal
Private IP DNS name (IPv4 only)
ip-10-1-2-131.ap-south-1.compute.internal
Answer private resource DNS name
–
Instance type
t2.micro
Elastic IP addresses
–
Auto-assigned IP address
VPC ID
AWS Compute Optimizer finding
CloudShell
Feedback
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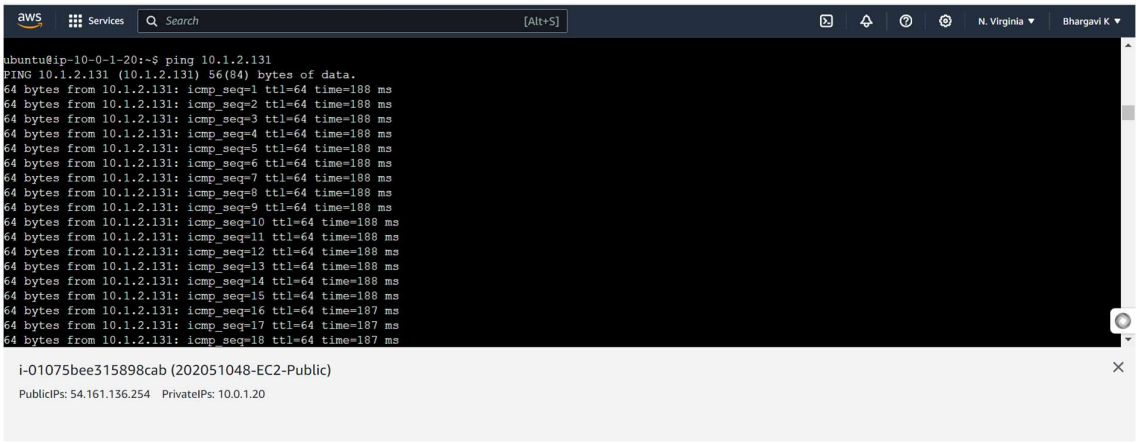

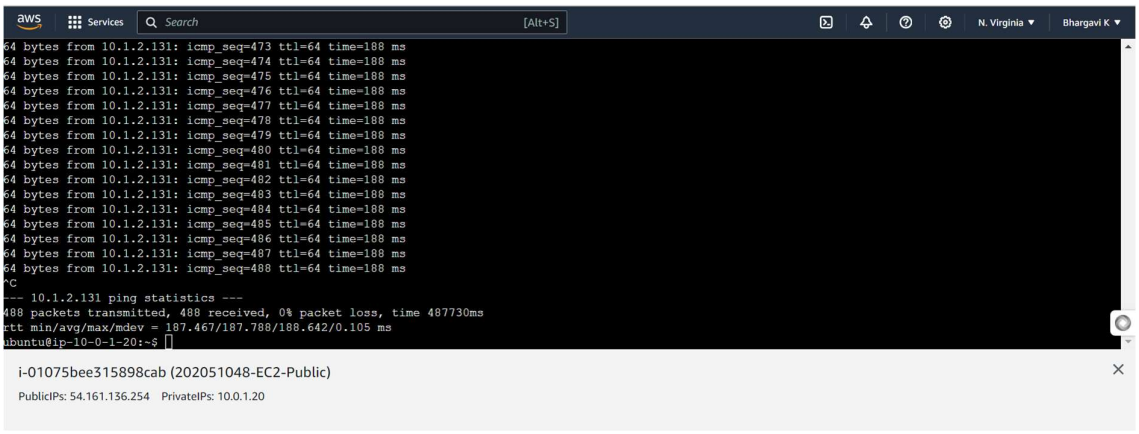

From instance of one VPC to another.

The instance has been pinged successfully.