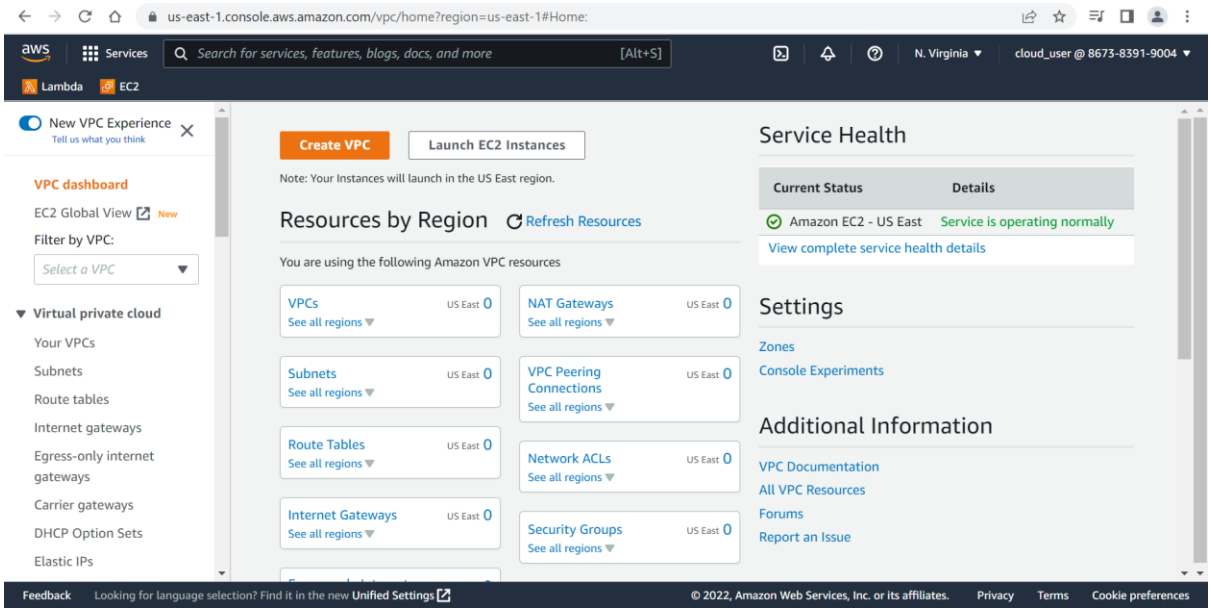
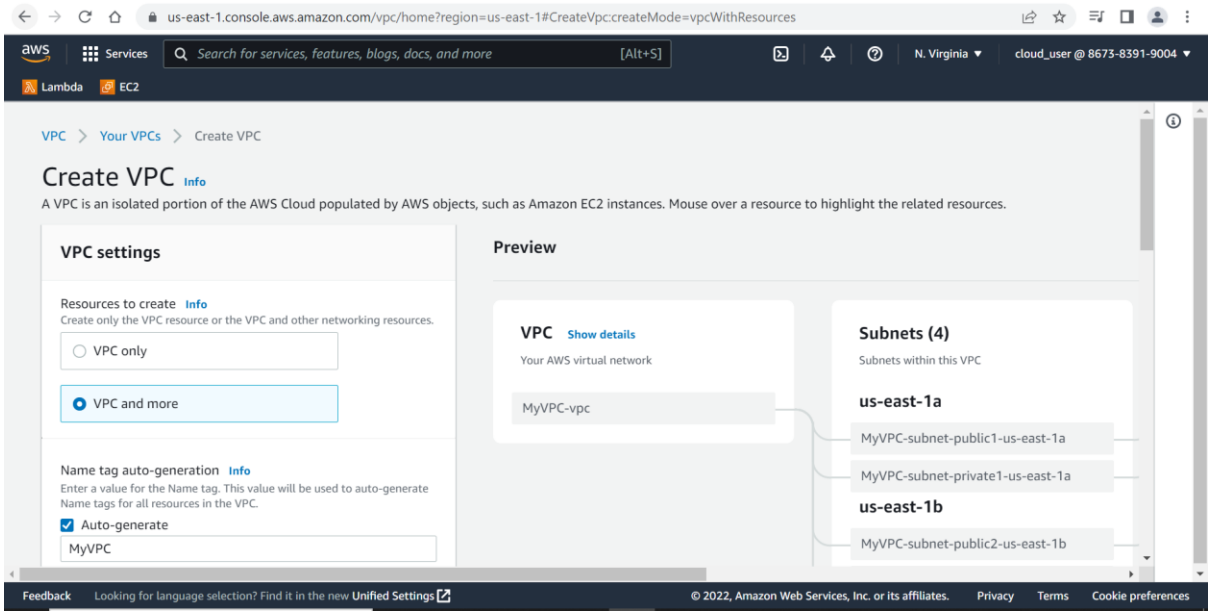
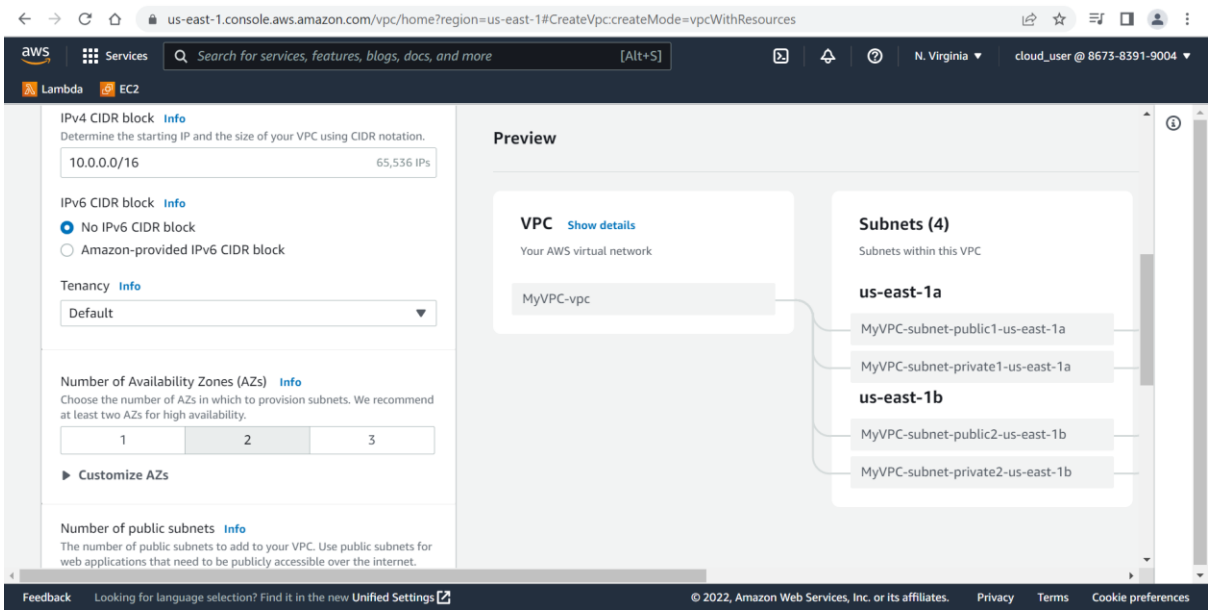
Create And Configure Basic VPC Components in AWS:

LAB:






us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateVpc:createMode=vpcWithResources
aws
Services
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N. Virginia
cloud_user @ 8673-8391-9004
Lambda
EC2
IPv4 CIDR block Info
Determine the starting IP and the size of your VPC using CIDR notation.
10.0.0.0/16
65,536 IPs
IPv6 CIDR block Info
No IPv6 CIDR block
Amazon-provided IPv6 CIDR block
Tenancy Info
Default
Number of Availability Zones (AZs) Info
Choose the number of AZs in which to provision subnets. We recommend at least two AZs for high availability.
1
2
3
Customize AZs
Number of public subnets Info
The number of public subnets to add to your VPC. Use public subnets for web applications that need to be publicly accessible over the internet.
Preview
VPC Show details
Your AWS virtual network
MyVPC-vpc
Subnets (4)
Subnets within this VPC
us-east-1a
MyVPC-subnet-public1-us-east-1a
MyVPC-subnet-private1-us-east-1a
us-east-1b
MyVPC-subnet-public2-us-east-1b
MyVPC-subnet-private2-us-east-1b
Feedback
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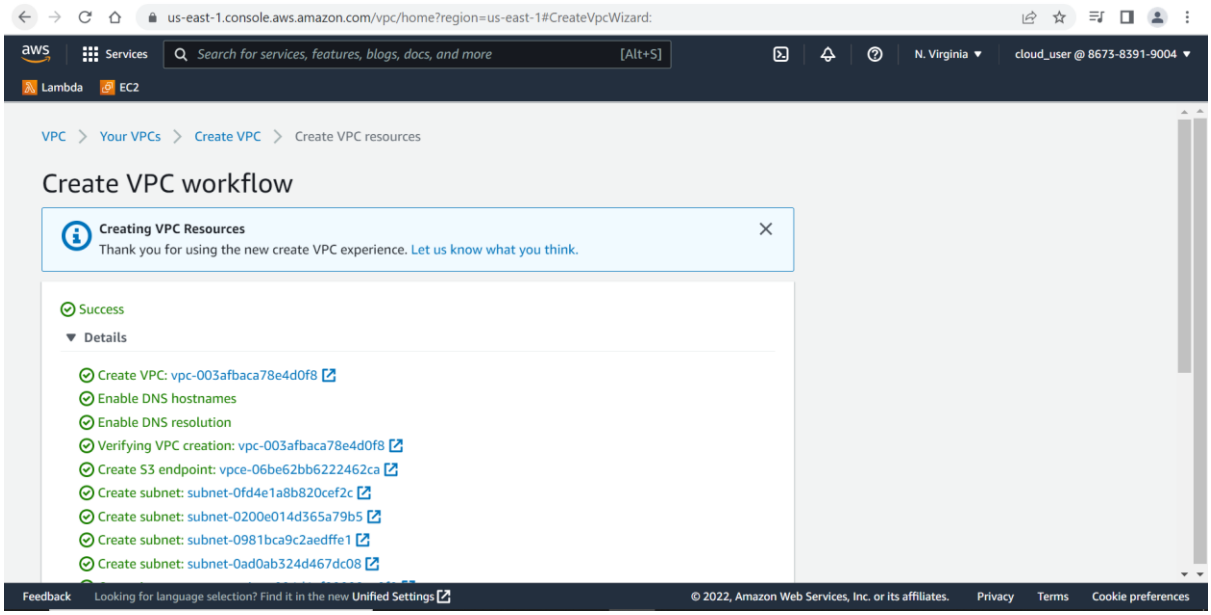
us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateVpcWizard:
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Lambda
EC2
VPC > Your VPCs > Create VPC > Create VPC resources
Create VPC workflow
Creating VPC Resources
Thank you for using the new create VPC experience. Let us know what you think.
Success
Details
Create VPC: vpc-003afbaca78e4d0f8
Enable DNS hostnames
Enable DNS resolution
Verifying VPC creation: vpc-003afbaca78e4d0f8
Create S3 endpoint: vpce-06be62bb6222462ca
Create subnet: subnet-0fd4e1a8b820cef2c
Create subnet: subnet-0200e014d365a79b5
Create subnet: subnet-0981bca9c2aedffe1
Create subnet: subnet-0ad0ab324d467dc08
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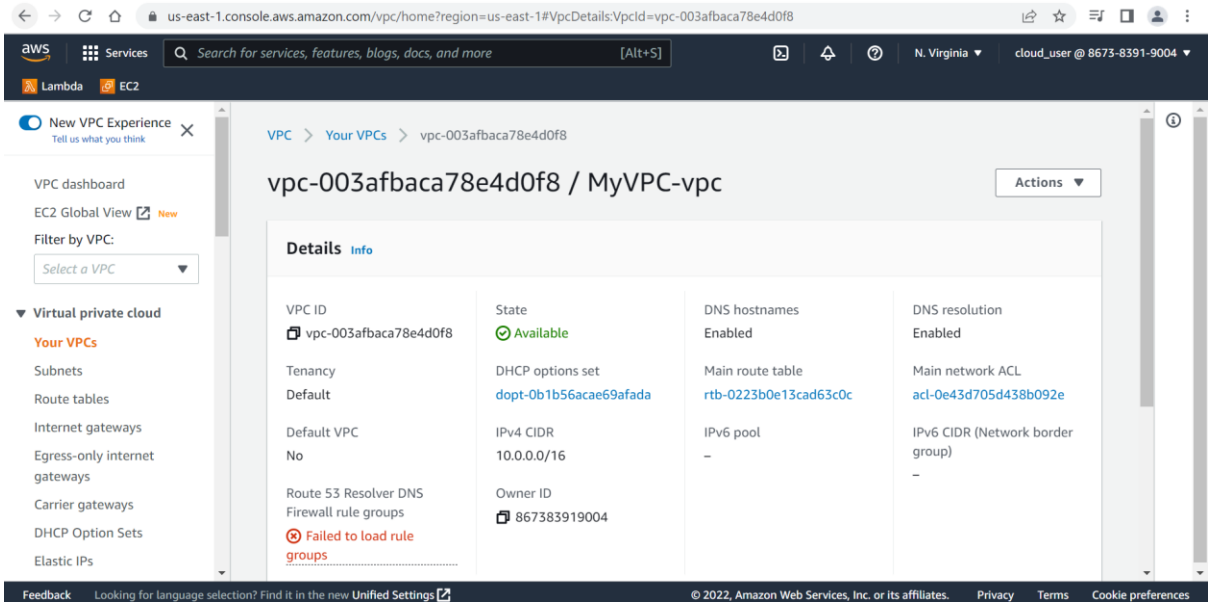
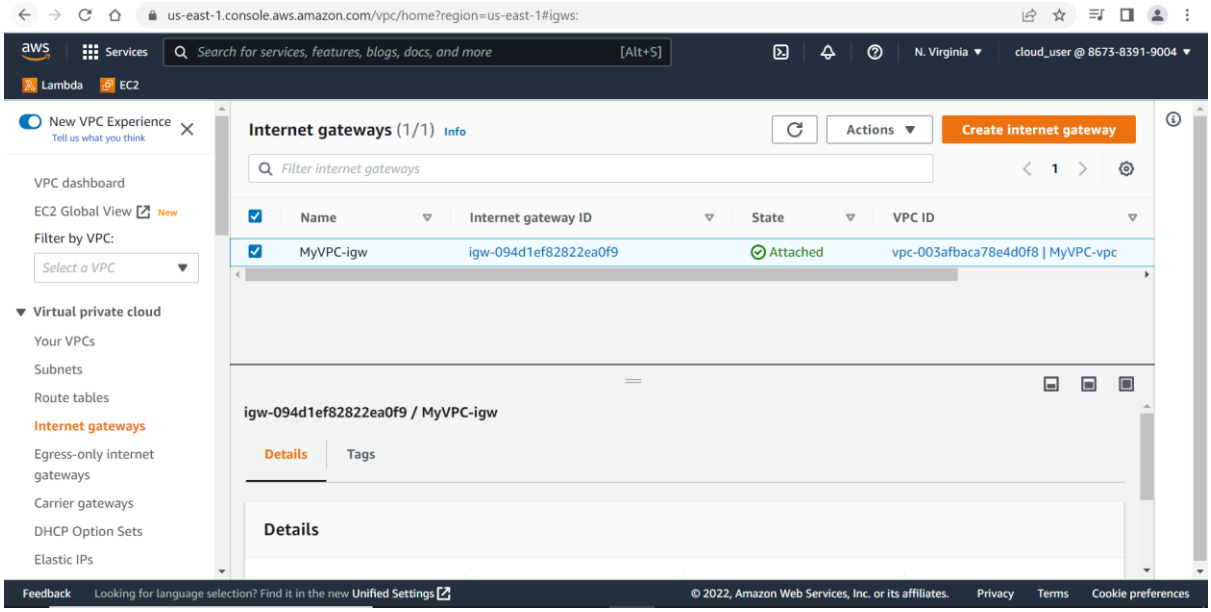
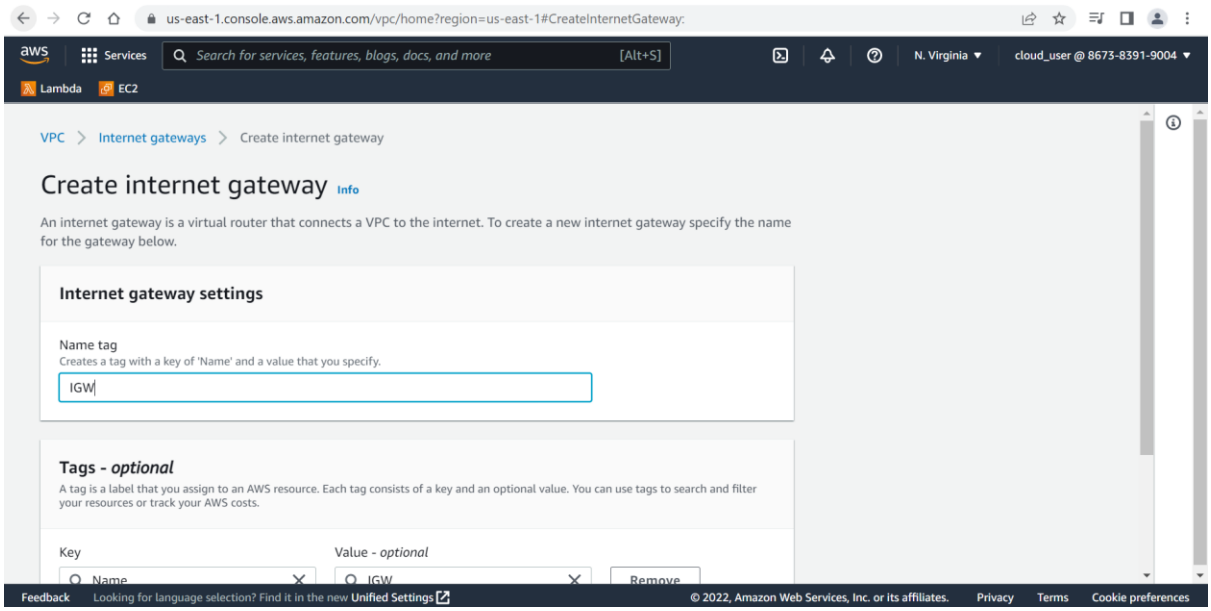


Internet Gateway:




us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateInternetGateway:
aws
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cloud_user @ 8673-8391-9004
Lambda
EC2
VPC > Internet gateways > Create internet gateway
Create internet gateway Info
An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.
Internet gateway settings
Name tag
Creates a tag with a key of 'Name' and a value that you specify.
IGW
Tags - optional
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.
Key
Value - optional
Name
IGW
Remove
Feedback
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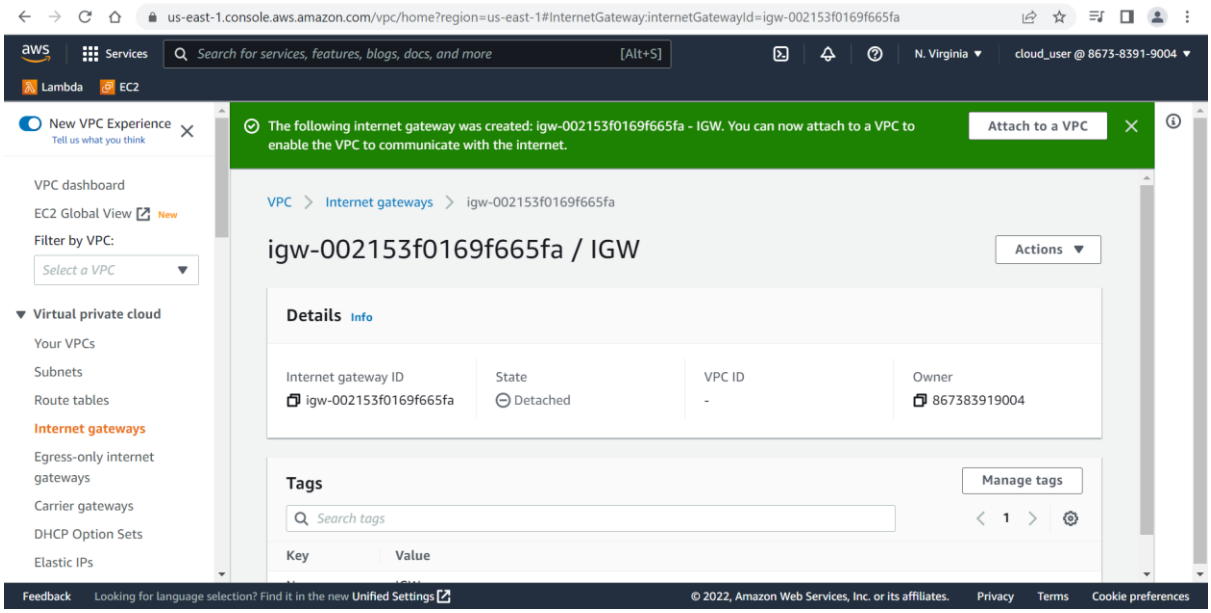
us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#InternetGateway:internetGatewayId=igw-002153f0169f665fa
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Lambda
EC2
New VPC Experience
Tell us what you think
VPC dashboard
EC2 Global View New
Filter by VPC:
Select a VPC
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only internet gateways
Carrier gateways
DHCP Option Sets
Elastic IPs
The following internet gateway was created: igw-002153f0169f665fa - IGW. You can now attach to a VPC to enable the VPC to communicate with the internet.
Attach to a VPC
VPC > Internet gateways > igw-002153f0169f665fa
igw-002153f0169f665fa / IGW
Actions
Details Info
Internet gateway ID
igw-002153f0169f665fa
State
Detached
VPC ID
-
Owner
867383919004
Tags
Manage tags
Search tags
1
Key
Value
Feedback
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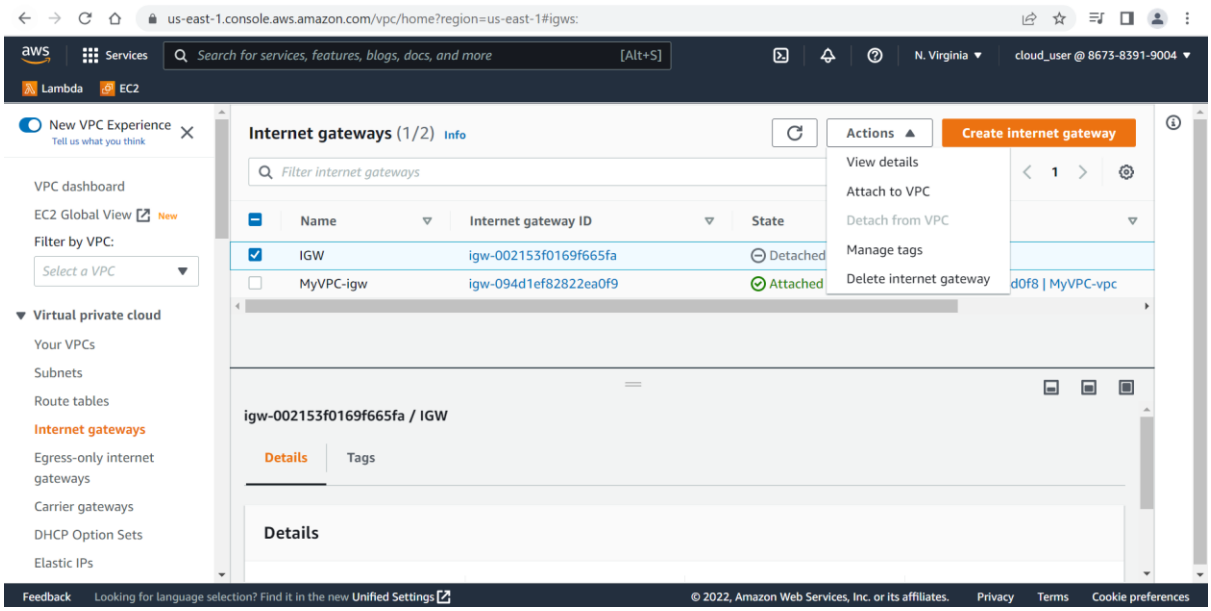
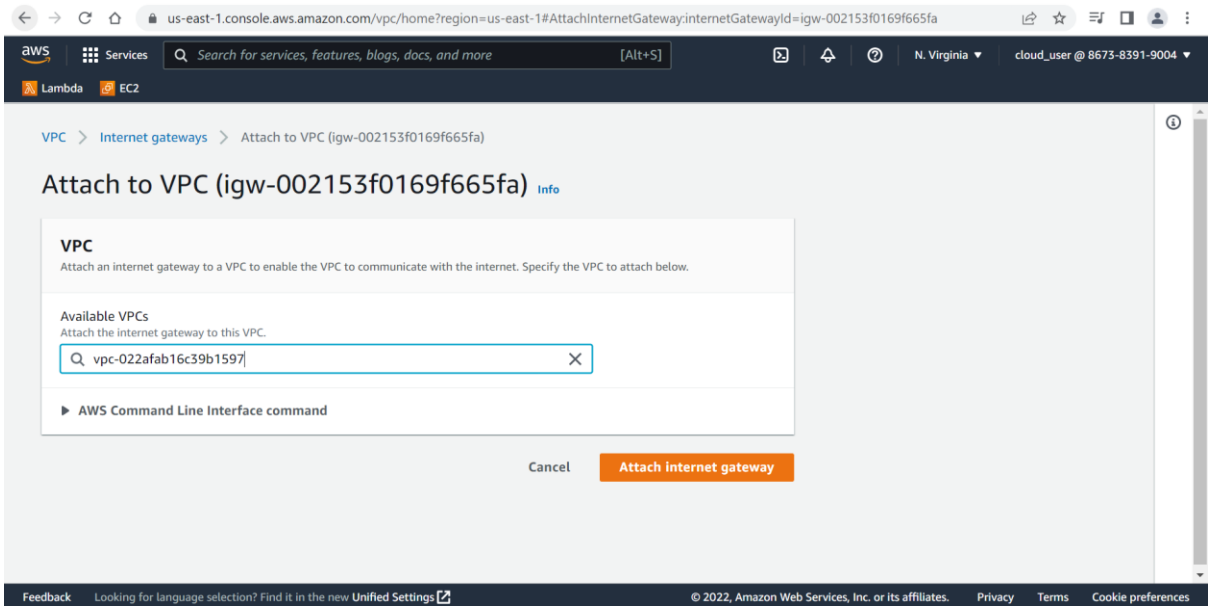
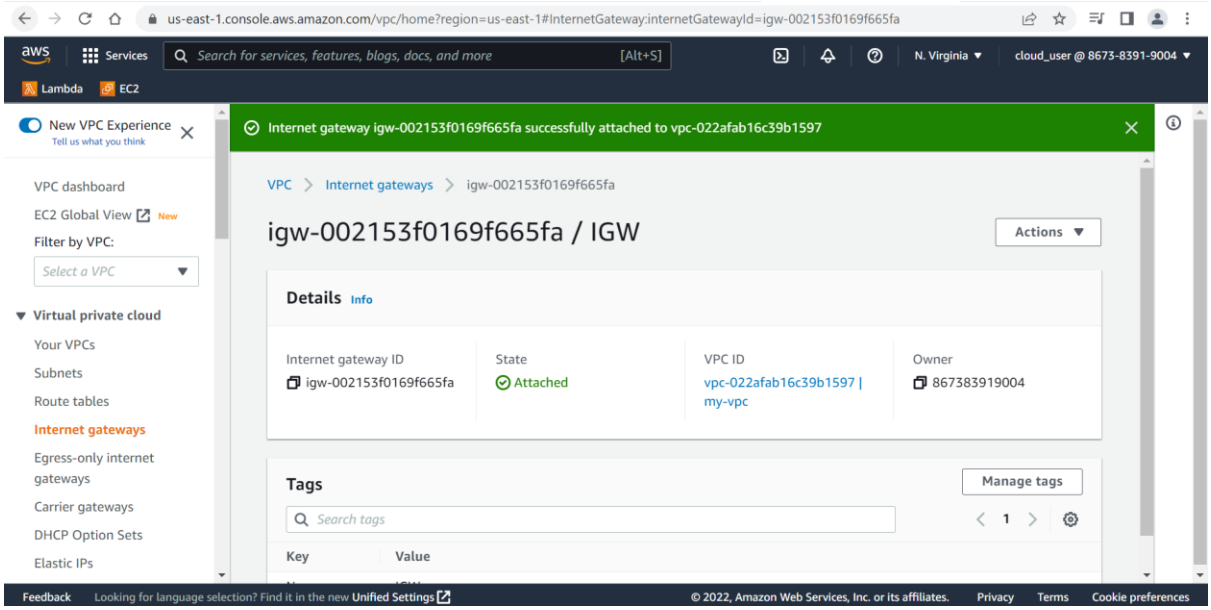
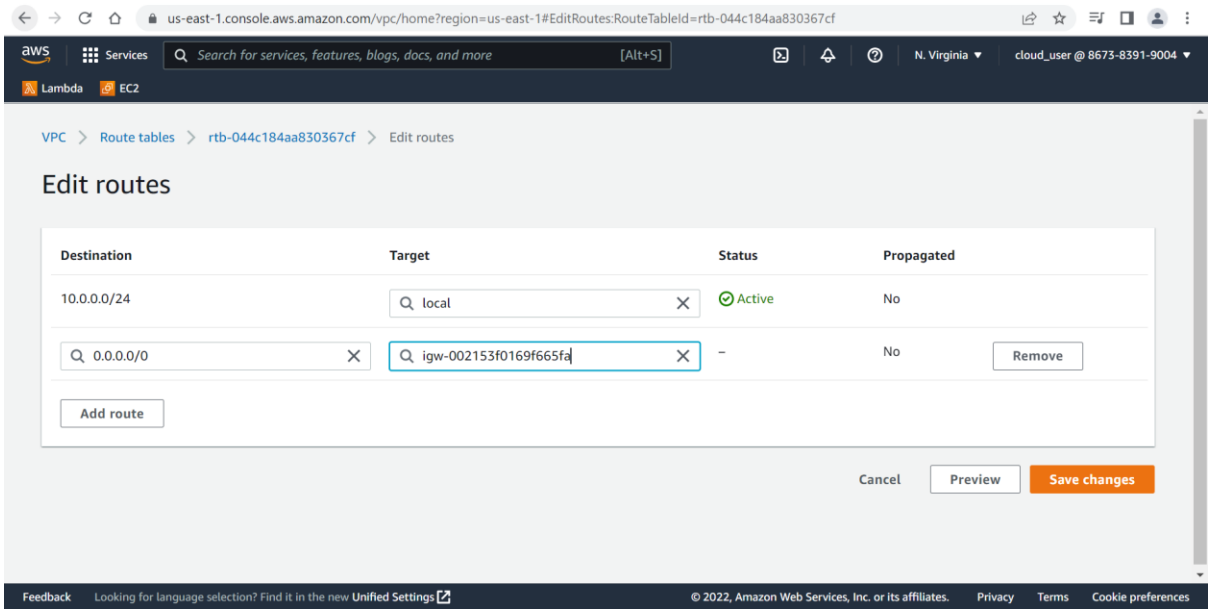

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#igws:
Internet gateways (1/2) Info
Actions
Create internet gateway
View details
Attach to VPC
Detach from VPC
Manage tags
Delete internet gateway
Name
Internet gateway ID
State
IGW
igw-002153f0169f665fa
Detached
MyVPC-igw
igw-094d1ef82822ea0f9
Attached
igw-002153f0169f665fa / IGW
Details
Tags

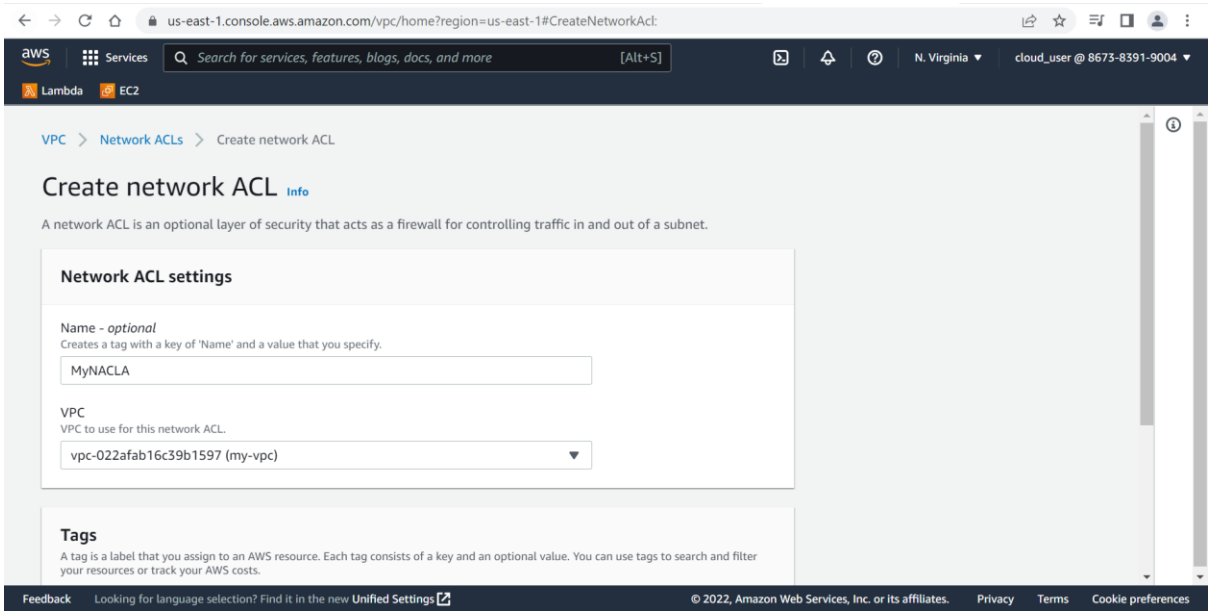

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#AttachInternetGateway:internetGatewayId=igw-002153f0169f665fa
VPC > Internet gateways > Attach to VPC (igw-002153f0169f665fa)
Attach to VPC (igw-002153f0169f665fa) Info
VPC
Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.
Available VPCs
Attach the internet gateway to this VPC.
vpc-022afab16c39b1597
AWS Command Line Interface command
Cancel
Attach internet gateway

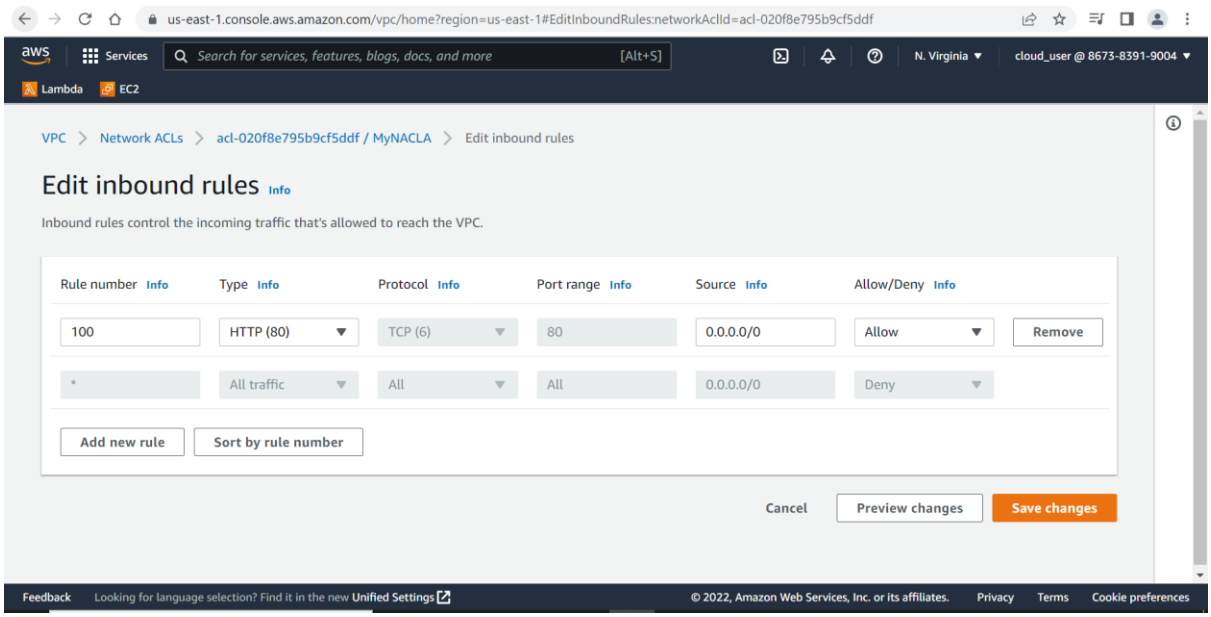

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#InternetGateway:internetGatewayId=igw-002153f0169f665fa
Internet gateway igw-002153f0169f665fa successfully attached to vpc-022afab16c39b1597
VPC > Internet gateways > igw-002153f0169f665fa
igw-002153f0169f665fa / IGW
Actions
Details Info
Internet gateway ID
igw-002153f0169f665fa
State
Attached
VPC ID
vpc-022afab16c39b1597 | my-vpc
Owner
867383919004
Tags
Manage tags
Search tags
Key
Value

Route tables:



NACL:




us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#EditInboundRules:networkAclId=acl-020f8e795b9cf5ddf
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Lambda
EC2
VPC > Network ACLs > acl-020f8e795b9cf5ddf / MyNACLA > Edit inbound rules
Edit inbound rules Info
Inbound rules control the incoming traffic that's allowed to reach the VPC.
Rule number Info
Type Info
Protocol Info
Port range Info
Source Info
Allow/Deny Info
100
HTTP (80)
TCP (6)
80
0.0.0.0/0
Allow
Remove
*
All traffic
All
All
0.0.0.0/0
Deny
Add new rule
Sort by rule number
Cancel
Preview changes
Save changes
Feedback
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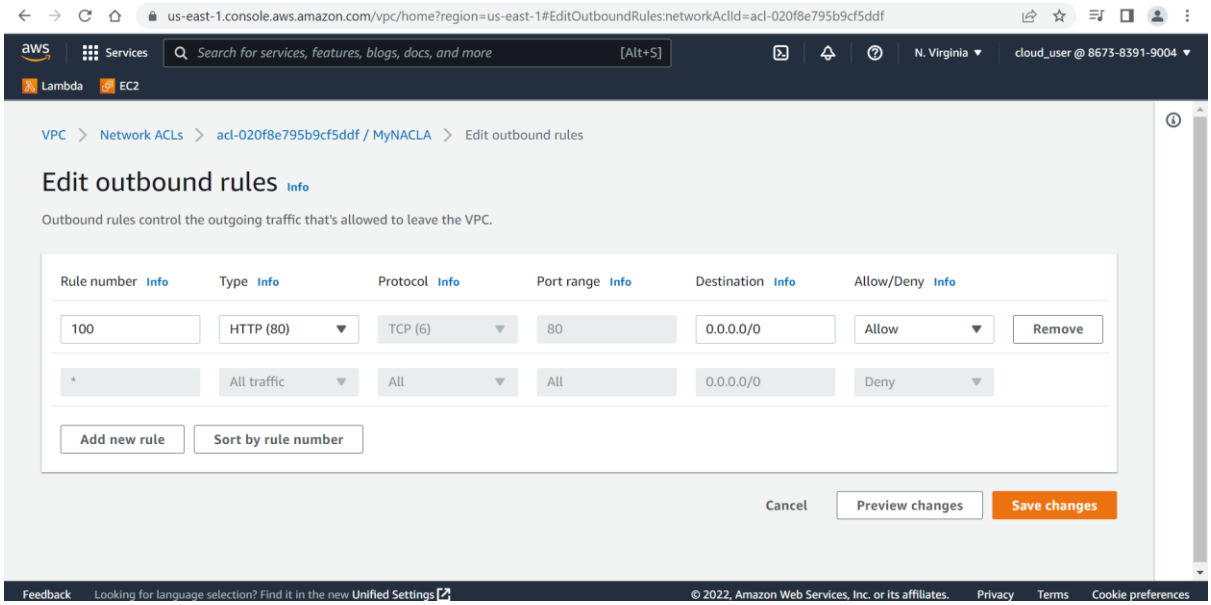
us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#EditOutboundRules:networkAclId=acl-020f8e795b9cf5ddf
aws
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cloud_user @ 8673-8391-9004
Lambda
EC2
VPC > Network ACLs > acl-020f8e795b9cf5ddf / MyNACLA > Edit outbound rules
Edit outbound rules Info
Outbound rules control the outgoing traffic that's allowed to leave the VPC.
Rule number Info
Type Info
Protocol Info
Port range Info
Destination Info
Allow/Deny Info
100
HTTP (80)
TCP (6)
80
0.0.0.0/0
Allow
Remove
*
All traffic
All
All
0.0.0.0/0
Deny
Add new rule
Sort by rule number
Cancel
Preview changes
Save changes
Feedback
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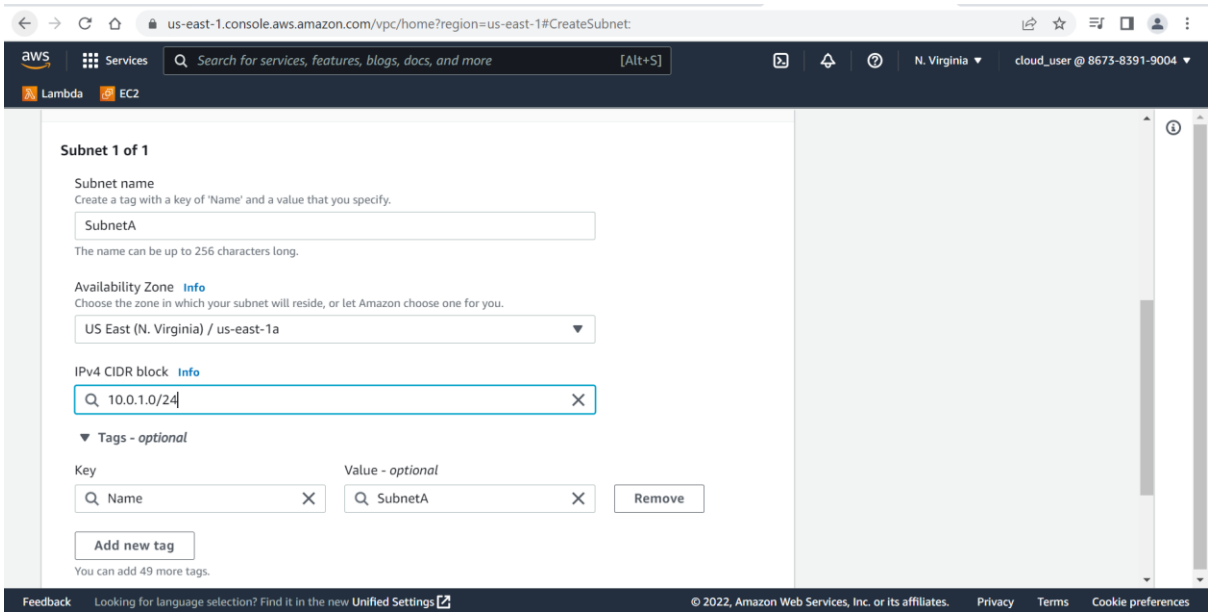
Subnets:


us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateSubnet:
aws
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Lambda
EC2
Subnet 1 of 1
Subnet name
Create a tag with a key of 'Name' and a value that you specify.
SubnetA
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.
US East (N. Virginia) / us-east-1a
IPv4 CIDR block Info
10.0.1.0/24
Tags - optional
Key
Value - optional
Name
SubnetA
Remove
Add new tag
You can add 49 more tags.
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