Lab Assignment-2

ECSE373L: Cloud Infrastructure and Services

Name: Tanvi Penumudy
Enroll no: E18CSE187
Batch: EB02

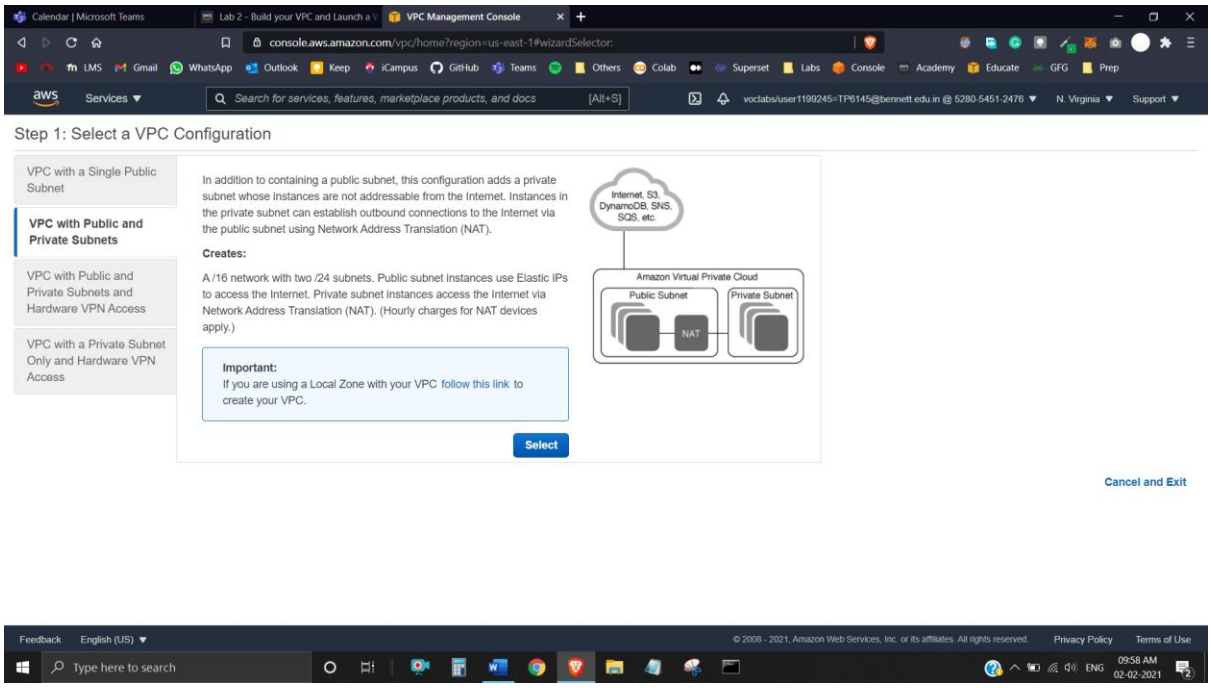
My AWS Academy Console Name: voclabs/user1199245=TP6145@bennett.edu.in @ 5280-5451-2476

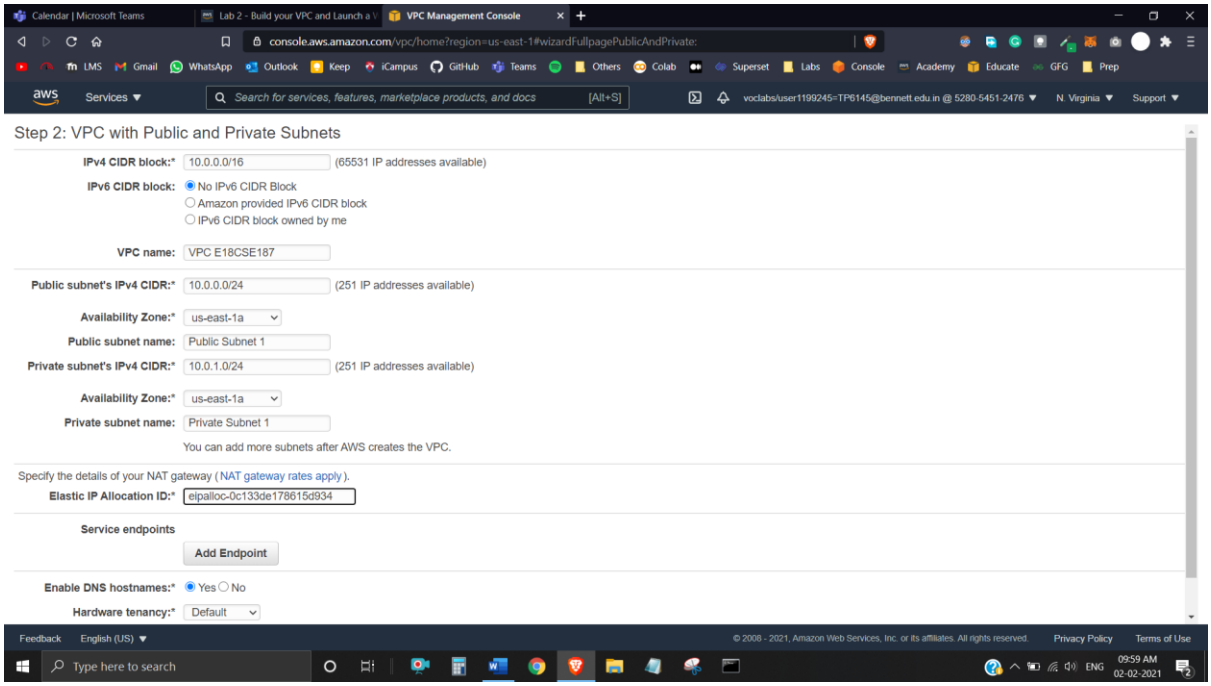
Lab Activities (AWS Academy Module 5 Lab 2):

- **Task 1:** Create your VPC
- **Task 2:** Create Additional Subnets
- **Task 3:** Create a VPC Security Group
- **Task 4:** Launch a Web Server Instance

Implementation Screenshots (Step-by-Step):

Task 1: Create your VPC




Calendar | Microsoft Teams
Lab 2 - Build your VPC and Launch a V
VPC Management Console
console.aws.amazon.com/vpc/home?region=us-east-1#wizardFullpagePublicAndPrivate:
Services
Search for services, features, marketplace products, and docs [Alt+S]
voclabs/user1199245=TP6145@bennett.edu.in @ 5280-5451-2476
N. Virginia
Support
Step 2: VPC with Public and Private Subnets
IPv4 CIDR block:* 10.0.0.0/16 (65531 IP addresses available)
IPv6 CIDR block: No IPv6 CIDR Block
Amazon provided IPv6 CIDR block
IPv6 CIDR block owned by me
VPC name: VPC E18CSE187
Public subnet's IPv4 CIDR:* 10.0.0.0/24 (251 IP addresses available)
Availability Zone:* us-east-1a
Public subnet name: Public Subnet 1
Private subnet's IPv4 CIDR:* 10.0.1.0/24 (251 IP addresses available)
Availability Zone:* us-east-1a
Private subnet name: Private Subnet 1
You can add more subnets after AWS creates the VPC.
Specify the details of your NAT gateway (NAT gateway rates apply).
Elastic IP Allocation ID:* eipalloc-0c133de178615d934
Service endpoints
Add Endpoint
Enable DNS hostnames:* Yes No
Hardware tenancy:* Default
Feedback
English (US)
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ENG
09:59 AM
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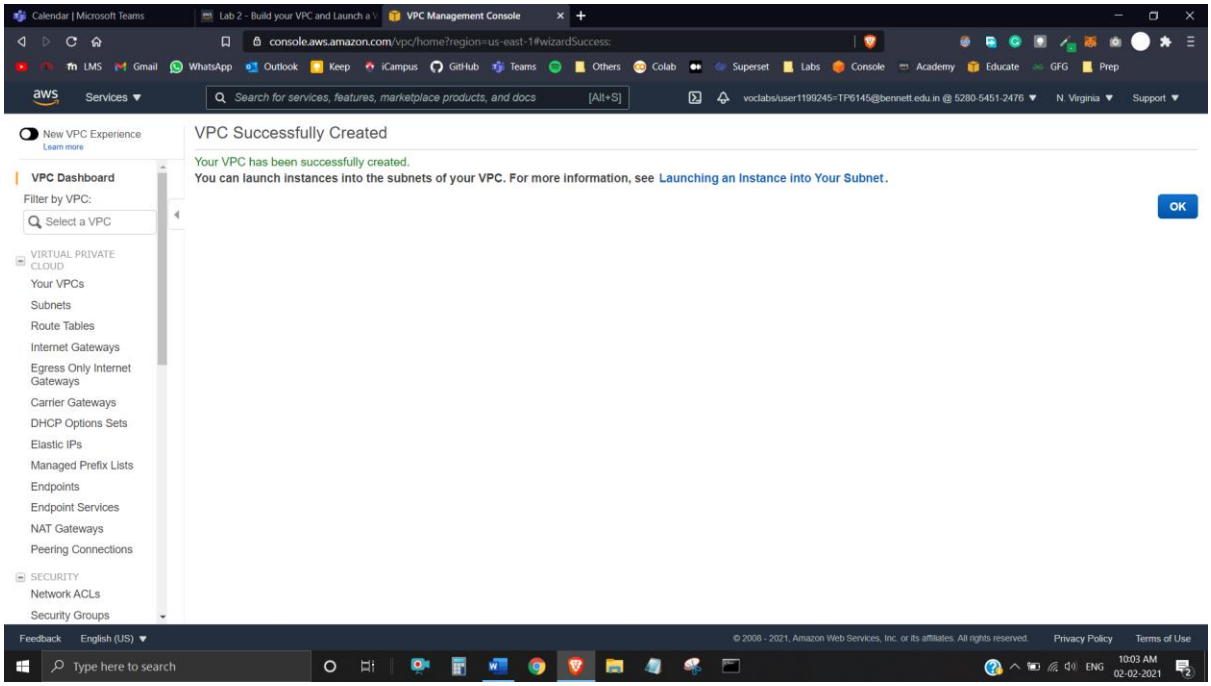
Calendar | Microsoft Teams
Lab 2 - Build your VPC and Launch a V
VPC Management Console
console.aws.amazon.com/vpc/home?region=us-east-1#wizardSuccess:
Services
Search for services, features, marketplace products, and docs [Alt+S]
voclabs/user1199245=TP6145@bennett.edu.in @ 5280-5451-2476
N. Virginia
Support
New VPC Experience
Learn more
VPC Dashboard
Filter by VPC:
Select a VPC
VIRTUAL PRIVATE CLOUD
Your VPCs
Subnets
Route Tables
Internet Gateways
Egress Only Internet Gateways
Carrier Gateways
DHCP Options Sets
Elastic IPs
Managed Prefix Lists
Endpoints
Endpoint Services
NAT Gateways
Peering Connections
SECURITY
Network ACLs
Security Groups
VPC Successfully Created
Your VPC has been successfully created.
You can launch instances into the subnets of your VPC. For more information, see Launching an Instance into Your Subnet.
OK
Feedback
English (US)
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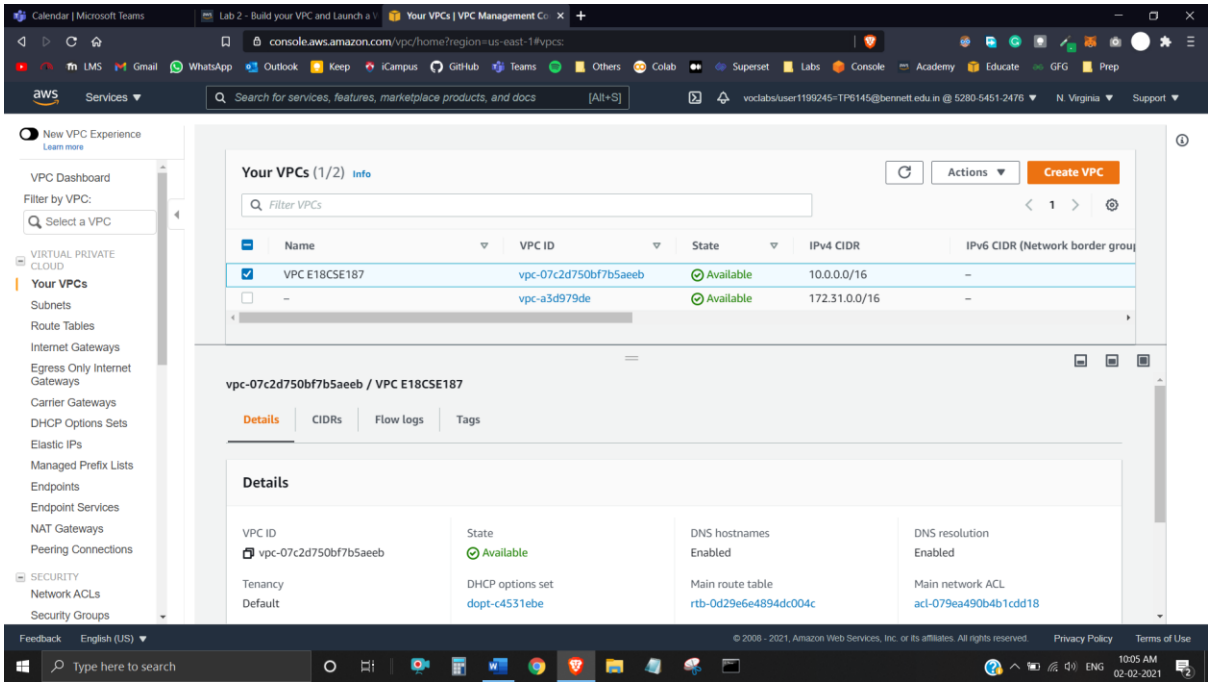
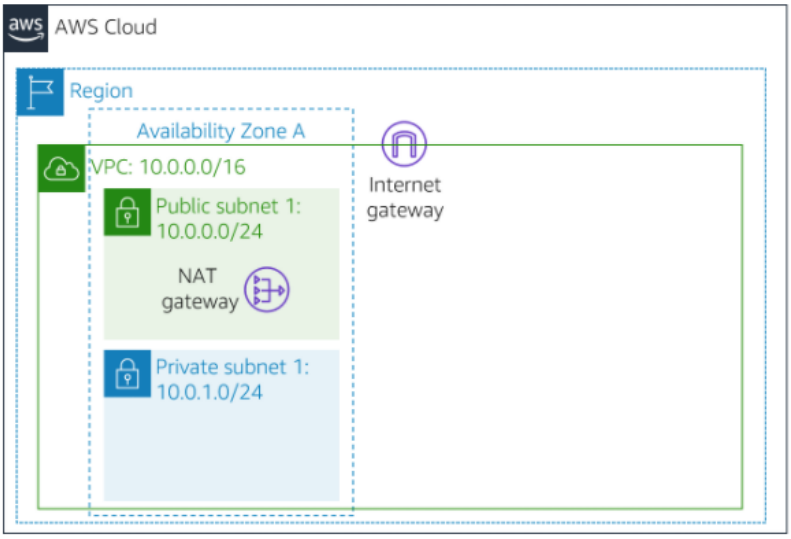


The wizard has provisioned a VPC with a public subnet and a private subnet in the same Availability Zone, together with route tables for each subnet:



Public Route Table

Destination	Target
10.0.0.0/16	Local
0.0.0.0/0	Internet gateway

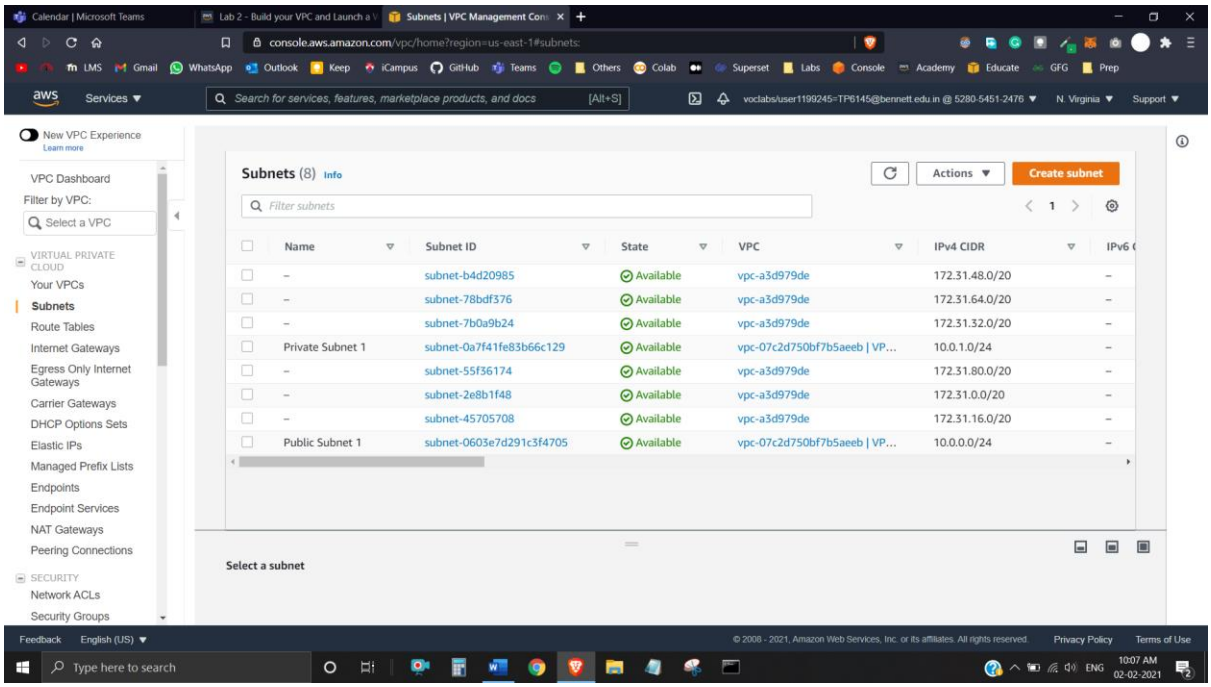
Private Route Table

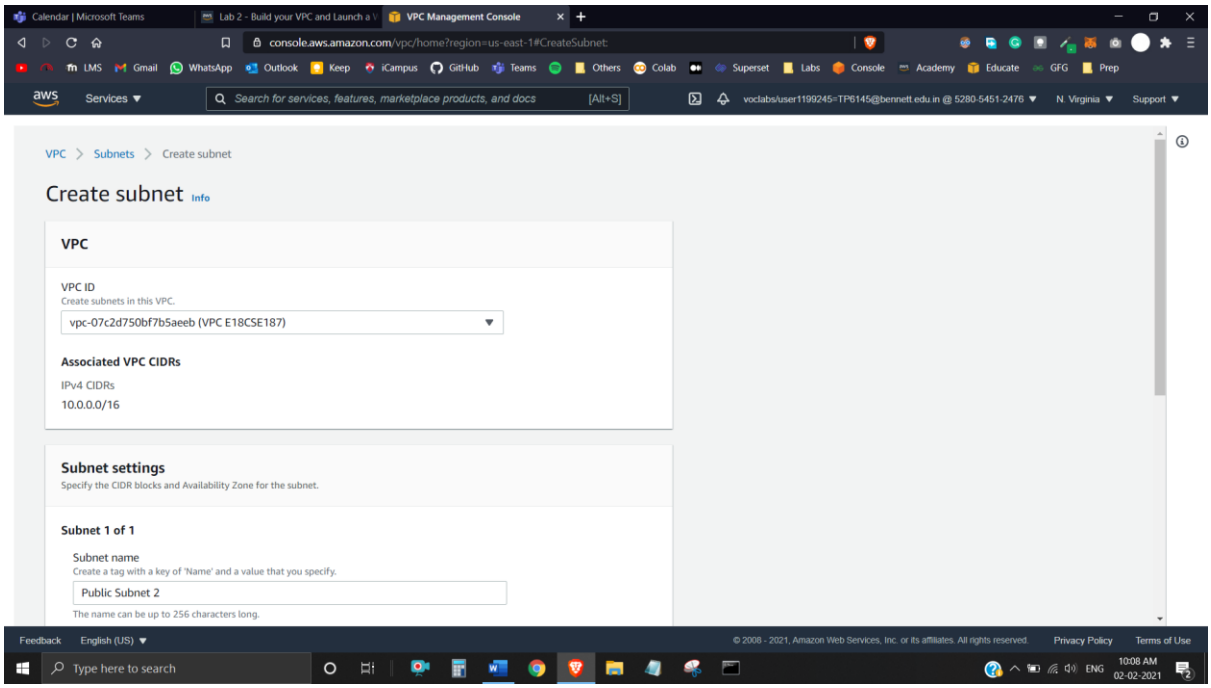
Destination	Target
10.0.0.0/16	Local
0.0.0.0/0	NAT gateway

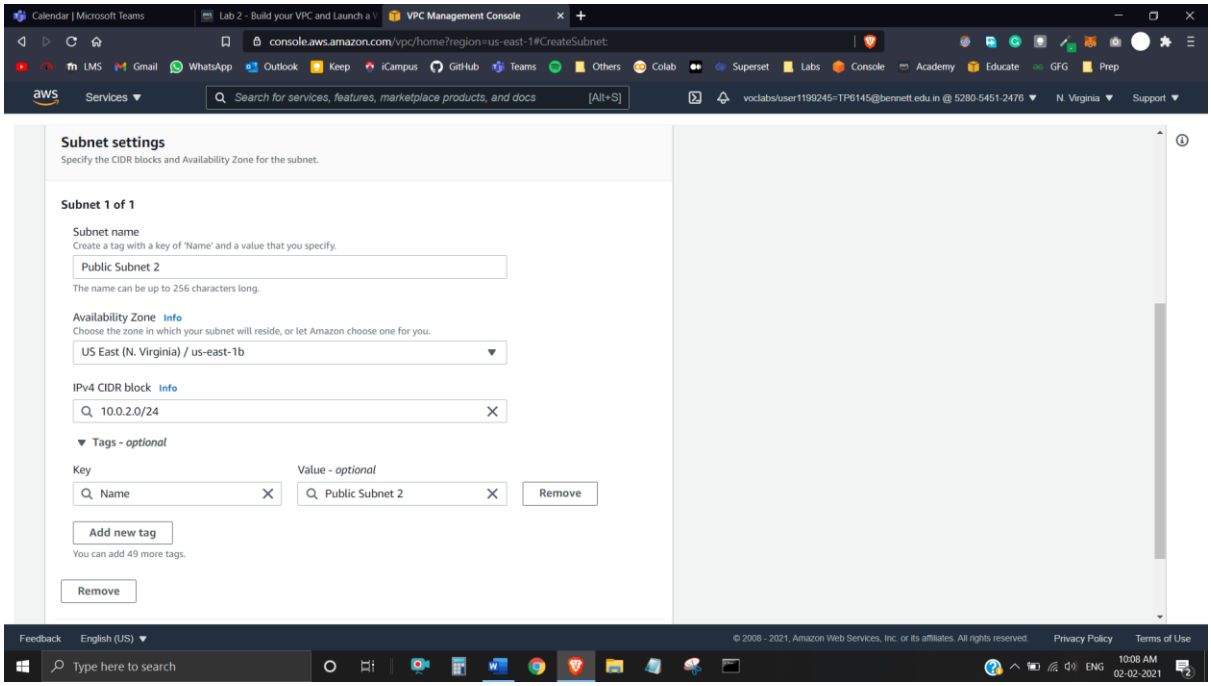
The Public Subnet has a CIDR of **10.0.0.0/24**, which means that it contains all IP addresses starting with **10.0.0.x**.

The Private Subnet has a CIDR of **10.0.1.0/24**, which means that it contains all IP addresses starting with **10.0.1.x**.

Task 2: Create Additional Subnets






Calendar | Microsoft Teams
Lab 2 - Build your VPC and Launch a V
VPC Management Console
console.aws.amazon.com/vpc/home?region=us-east-1#CreateSubnet:
Services
Search for services, features, marketplace products, and docs [Alt+S]
N. Virginia
Support
Subnet settings
Specify the CIDR blocks and Availability Zone for the subnet.
Subnet 1 of 1
Subnet name
Create a tag with a key of 'Name' and a value that you specify.
Public Subnet 2
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-1b
IPv4 CIDR block Info
10.0.2.0/24
Tags - optional
Key
Value - optional
Name
Public Subnet 2
Remove
Add new tag
You can add 49 more tags.
Remove
Feedback
English (US)
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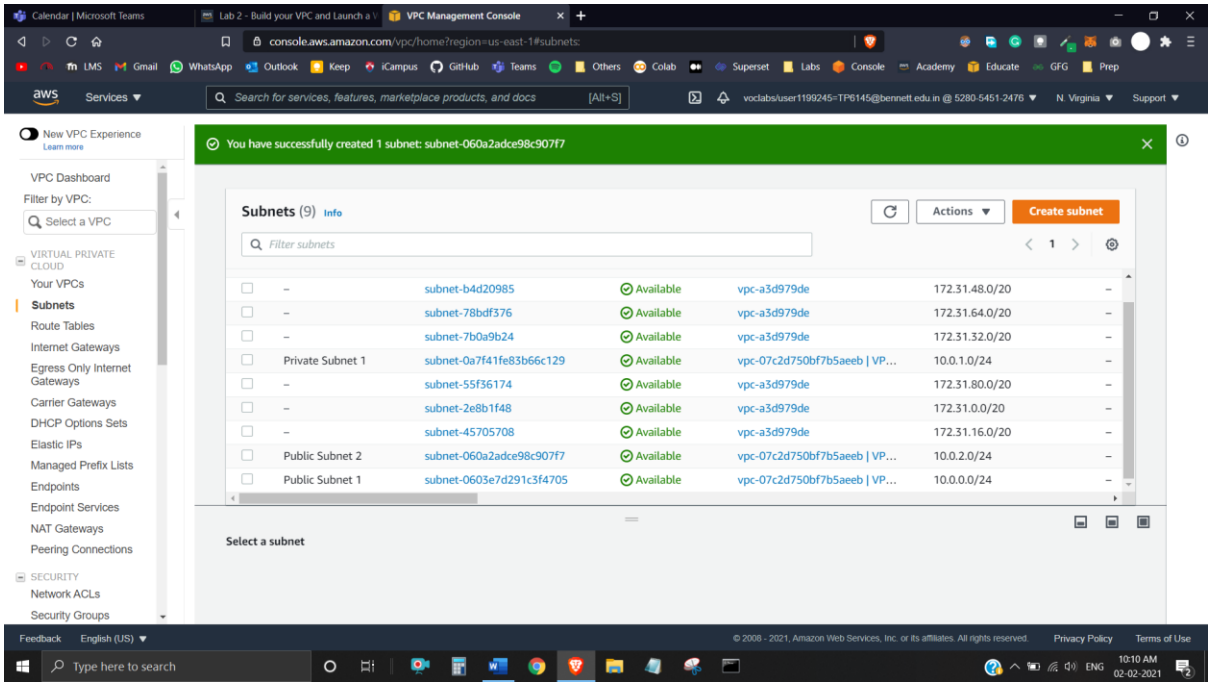
Calendar | Microsoft Teams
Lab 2 - Build your VPC and Launch a V
VPC Management Console
console.aws.amazon.com/vpc/home?region=us-east-1#subnets:
Services
Search for services, features, marketplace products, and docs [Alt+S]
N. Virginia
Support
New VPC Experience
Learn more
VPC Dashboard
Filter by VPC:
Select a VPC
VIRTUAL PRIVATE CLOUD
Your VPCs
Subnets
Route Tables
Internet Gateways
Egress Only Internet Gateways
Carrier Gateways
DHCP Options Sets
Elastic IPs
Managed Prefix Lists
Endpoints
Endpoint Services
NAT Gateways
Peering Connections
SECURITY
Network ACLs
Security Groups
You have successfully created 1 subnet: subnet-060a2adce98c907f7
Subnets (9) Info
Actions
Create subnet
Filter subnets
1
– subnet-b4d20985 Available vpc-a3d979de 172.31.48.0/20 –
– subnet-78bdf376 Available vpc-a3d979de 172.31.64.0/20 –
– subnet-7b0a9b24 Available vpc-a3d979de 172.31.32.0/20 –
Private Subnet 1 subnet-0a7f41fe83b66c129 Available vpc-07c2d750bf7b5aeeb | VP... 10.0.1.0/24 –
– subnet-55f36174 Available vpc-a3d979de 172.31.80.0/20 –
– subnet-2e8b1f48 Available vpc-a3d979de 172.31.0.0/20 –
– subnet-45705708 Available vpc-a3d979de 172.31.16.0/20 –
Public Subnet 2 subnet-060a2adce98c907f7 Available vpc-07c2d750bf7b5aeeb | VP... 10.0.2.0/24 –
Public Subnet 1 subnet-0603e7d291c3f4705 Available vpc-07c2d750bf7b5aeeb | VP... 10.0.0.0/24 –
Select a subnet
Feedback
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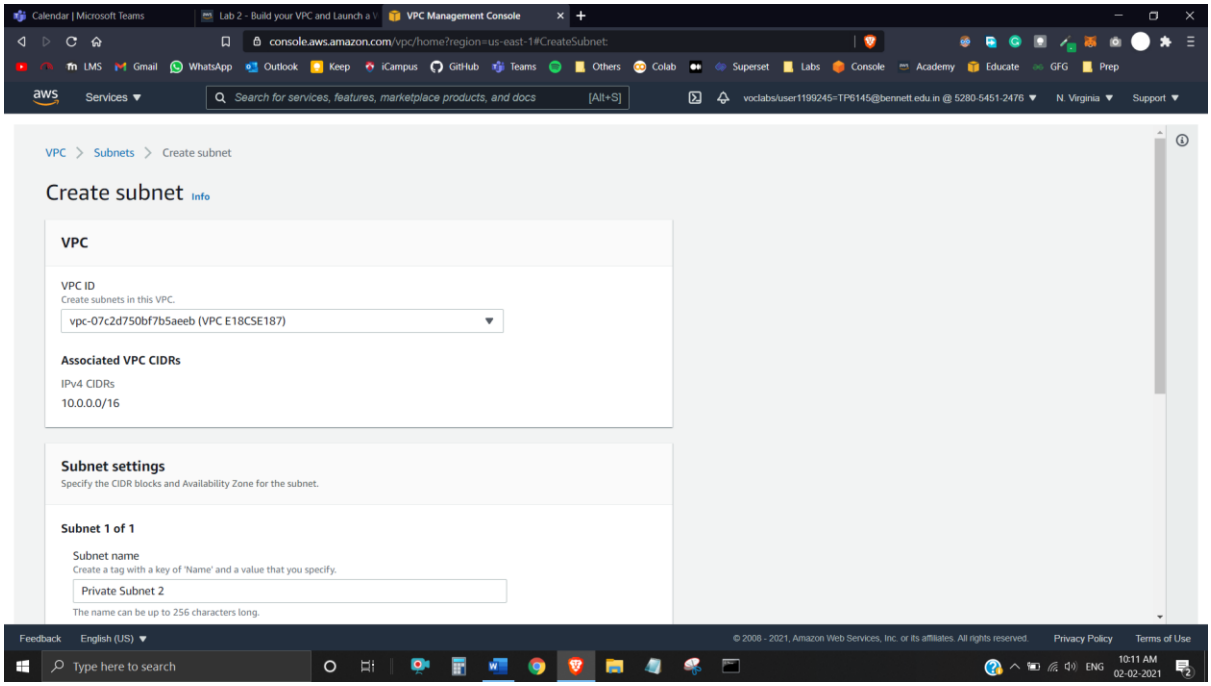
Calendar | Microsoft Teams
Lab 2 - Build your VPC and Launch a V
VPC Management Console
console.aws.amazon.com/vpc/home?region=us-east-1#CreateSubnet:
Services
Search for services, features, marketplace products, and docs [Alt+S]
N. Virginia
Support
VPC > Subnets > Create subnet
Create subnet Info
VPC
VPC ID
Create subnets in this VPC.
vpc-07c2d750bf7b5aeeb (VPC E18CSE187)
Associated VPC CIDRs
IPv4 CIDRs
10.0.0.0/16
Subnet settings
Specify the CIDR blocks and Availability Zone for the subnet.
Subnet 1 of 1
Subnet name
Create a tag with a key of 'Name' and a value that you specify.
Private Subnet 2
The name can be up to 256 characters long.
Feedback
English (US)
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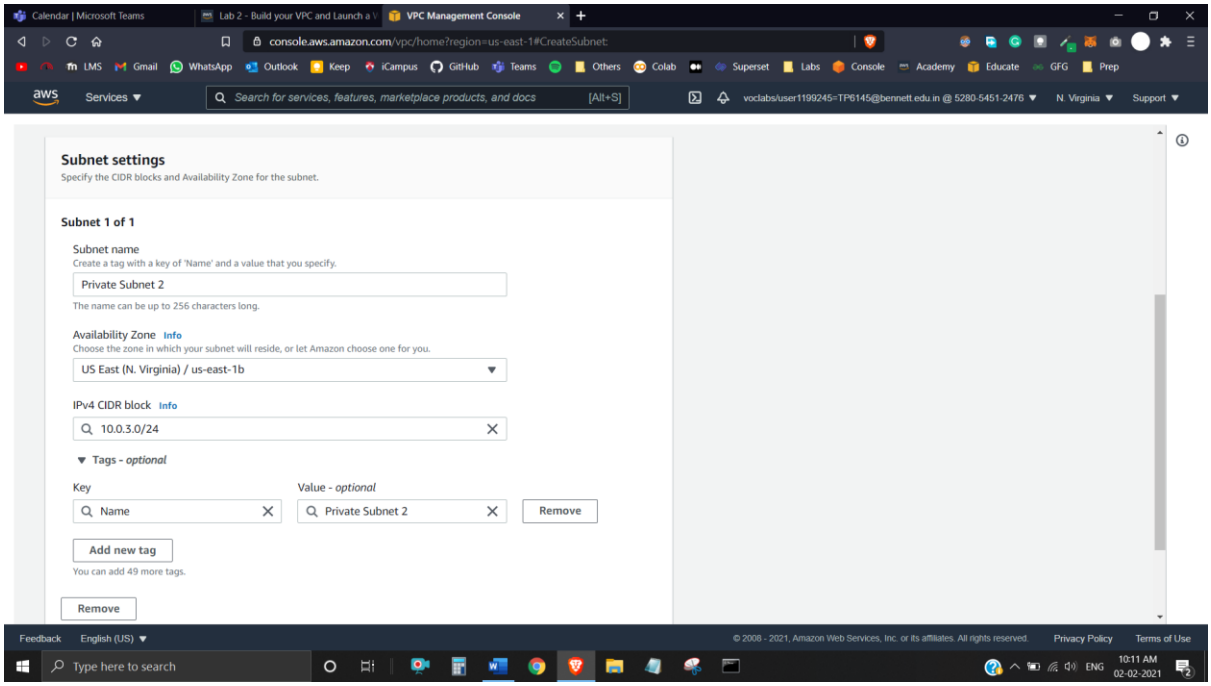
Calendar | Microsoft Teams
Lab 2 - Build your VPC and Launch a V
VPC Management Console
console.aws.amazon.com/vpc/home?region=us-east-1#CreateSubnet:
Services
Search for services, features, marketplace products, and docs [Alt+S]
N. Virginia
Support
Subnet settings
Specify the CIDR blocks and Availability Zone for the subnet.
Subnet 1 of 1
Subnet name
Create a tag with a key of 'Name' and a value that you specify.
Private Subnet 2
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-1b
IPv4 CIDR block Info
10.0.3.0/24
Tags - optional
Key
Value - optional
Name
Private Subnet 2
Remove
Add new tag
You can add 49 more tags.
Remove
Feedback
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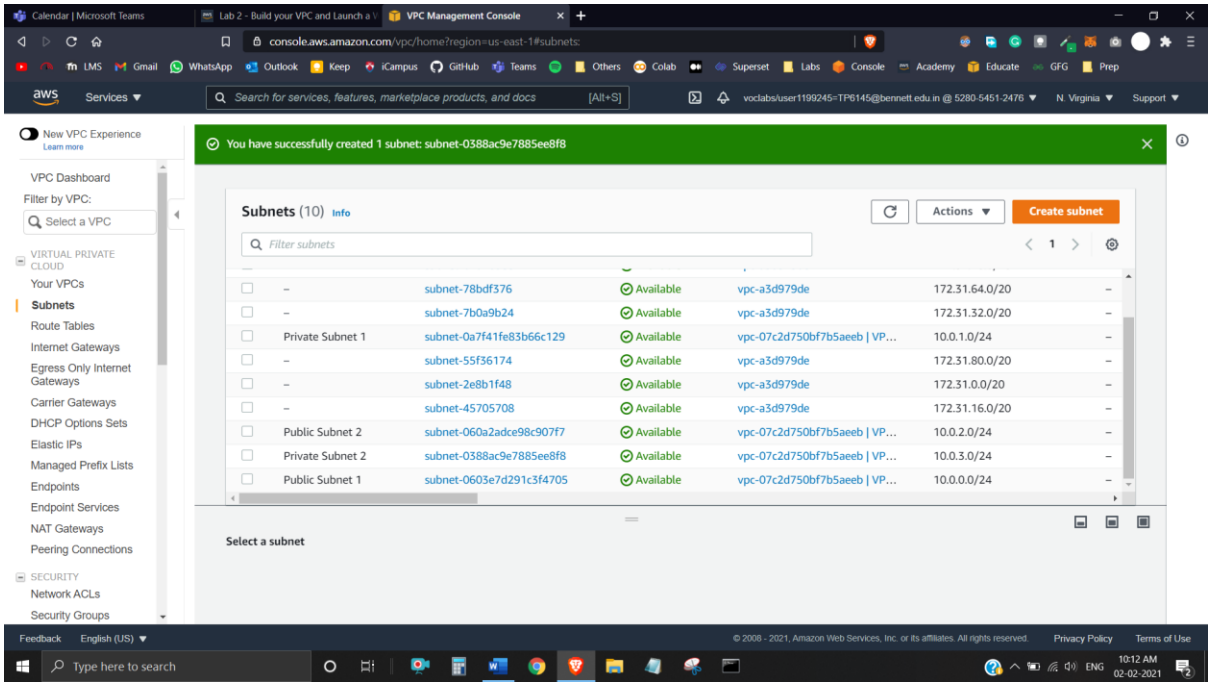
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Lab 2 - Build your VPC and Launch a V
VPC Management Console
console.aws.amazon.com/vpc/home?region=us-east-1#subnets:
Services
Search for services, features, marketplace products, and docs [Alt+S]
N. Virginia
Support
New VPC Experience
Learn more
You have successfully created 1 subnet: subnet-0388ac9e7885ee8f8
VPC Dashboard
Filter by VPC:
Select a VPC
VIRTUAL PRIVATE CLOUD
Your VPCs
Subnets
Route Tables
Internet Gateways
Egress Only Internet Gateways
Carrier Gateways
DHCP Options Sets
Elastic IPs
Managed Prefix Lists
Endpoints
Endpoint Services
NAT Gateways
Peering Connections
SECURITY
Network ACLs
Security Groups
Subnets (10) Info
Actions
Create subnet
Filter subnets
subnet-78bdf376 Available vpc-a3d979de 172.31.64.0/20
subnet-7b0a9b24 Available vpc-a3d979de 172.31.32.0/20
Private Subnet 1 subnet-0a7f41fe83b66c129 Available vpc-07c2d750bf7b5aeeb | VP... 10.0.1.0/24
subnet-55f36174 Available vpc-a3d979de 172.31.80.0/20
subnet-2e8b1f48 Available vpc-a3d979de 172.31.0.0/20
subnet-45705708 Available vpc-a3d979de 172.31.16.0/20
Public Subnet 2 subnet-060a2adce98c907f7 Available vpc-07c2d750bf7b5aeeb | VP... 10.0.2.0/24
Private Subnet 2 subnet-0388ac9e7885ee8f8 Available vpc-07c2d750bf7b5aeeb | VP... 10.0.3.0/24
Public Subnet 1 subnet-0603e7d291c3f4705 Available vpc-07c2d750bf7b5aeeb | VP... 10.0.0.0/24
Select a subnet
Feedback
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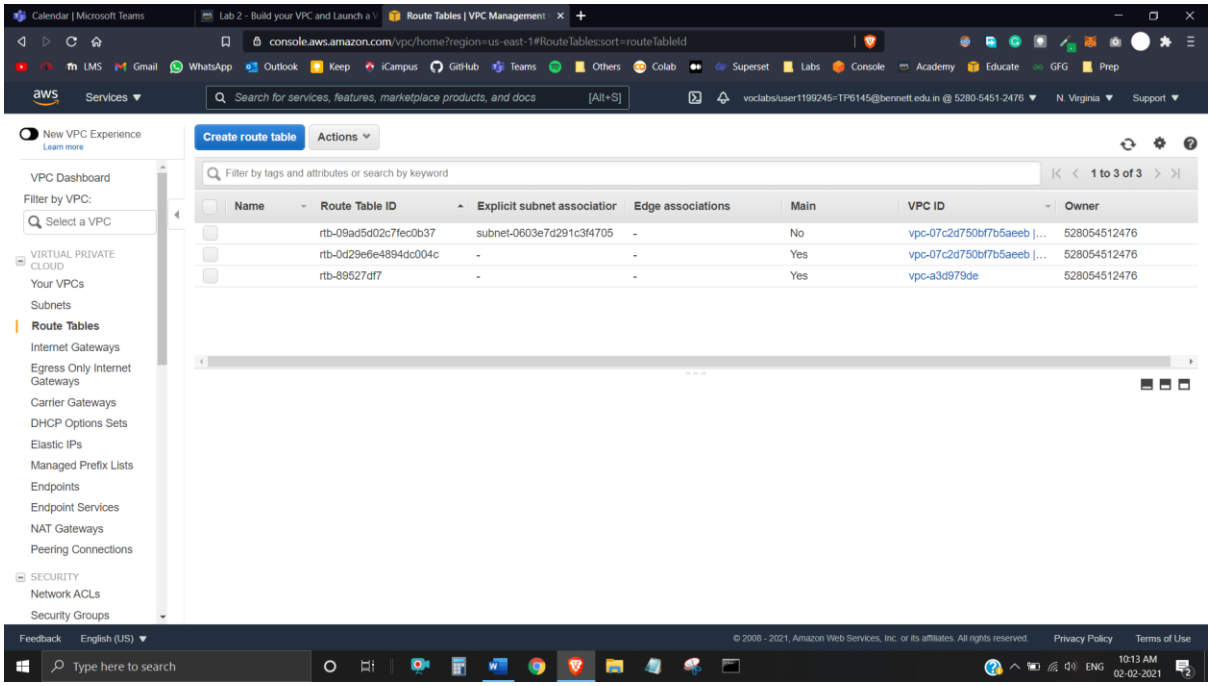
Calendar | Microsoft Teams
Lab 2 - Build your VPC and Launch a V
Route Tables | VPC Management
console.aws.amazon.com/vpc/home?region=us-east-1#RouteTables:sort=routeTableId
Services
Search for services, features, marketplace products, and docs [Alt+S]
N. Virginia
Support
New VPC Experience
Learn more
Create route table
Actions
Filter by tags and attributes or search by keyword
1 to 3 of 3
Name
Route Table ID
Explicit subnet association
Edge associations
Main
VPC ID
Owner
rtb-09ad5d02c7fec0b37 subnet-0603e7d291c3f4705 - No vpc-07c2d750bf7b5aeeb |... 528054512476
rtb-0d29e6e4894dc004c - - Yes vpc-07c2d750bf7b5aeeb |... 528054512476
rtb-89527df7 - - Yes vpc-a3d979de 528054512476
VPC Dashboard
Filter by VPC:
Select a VPC
VIRTUAL PRIVATE CLOUD
Your VPCs
Subnets
Route Tables
Internet Gateways
Egress Only Internet Gateways
Carrier Gateways
DHCP Options Sets
Elastic IPs
Managed Prefix Lists
Endpoints
Endpoint Services
NAT Gateways
Peering Connections
SECURITY
Network ACLs
Security Groups
Feedback
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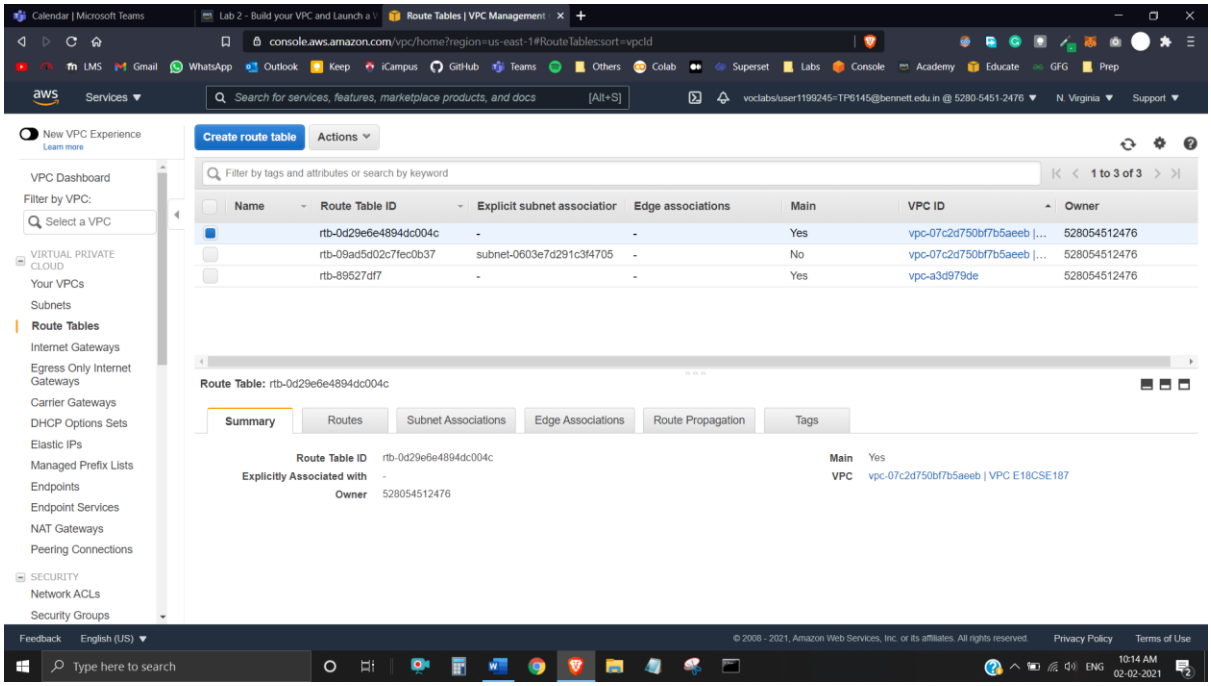
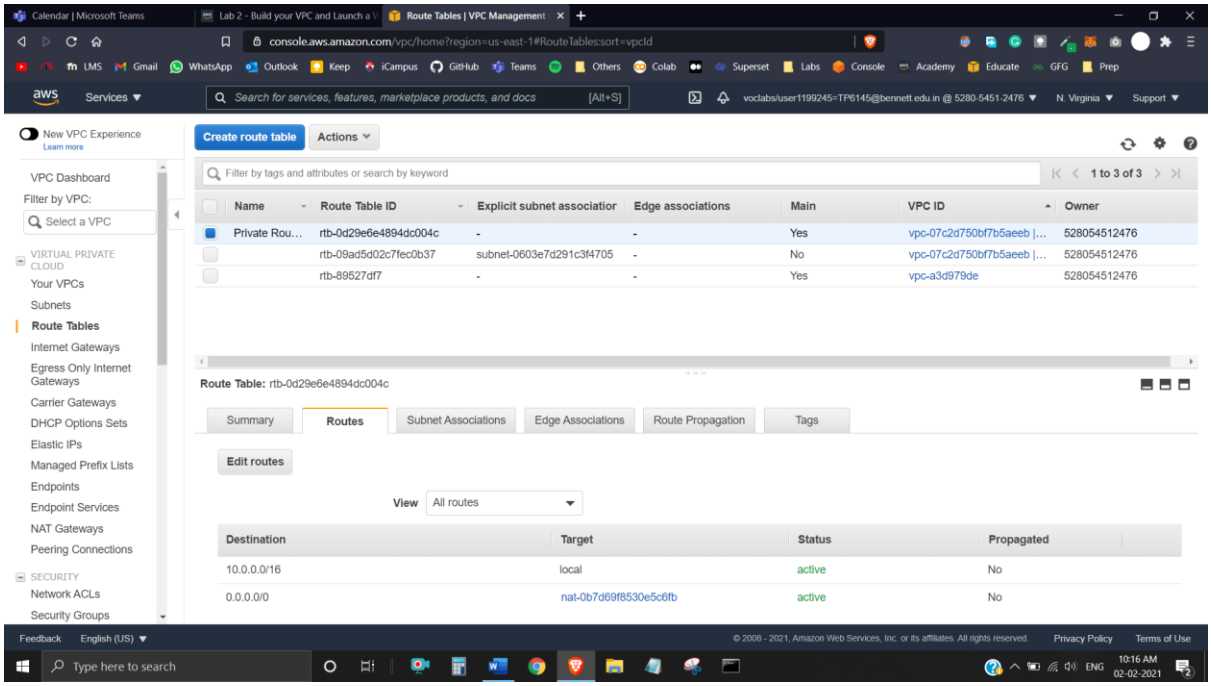
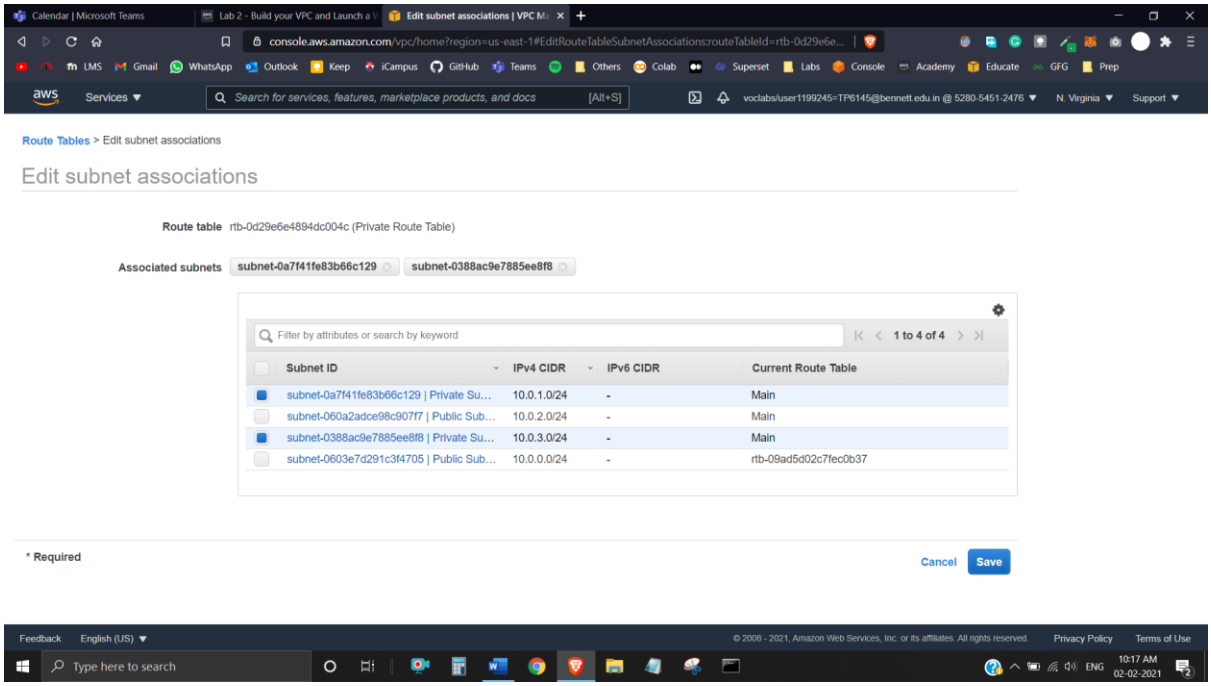
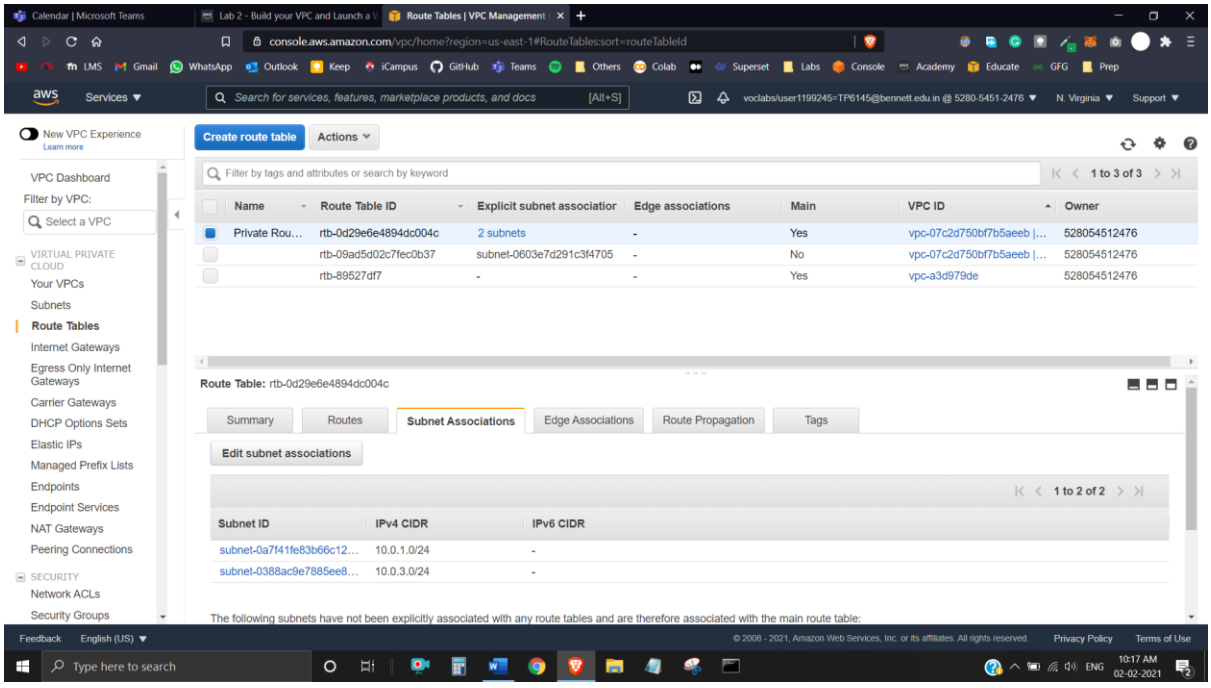
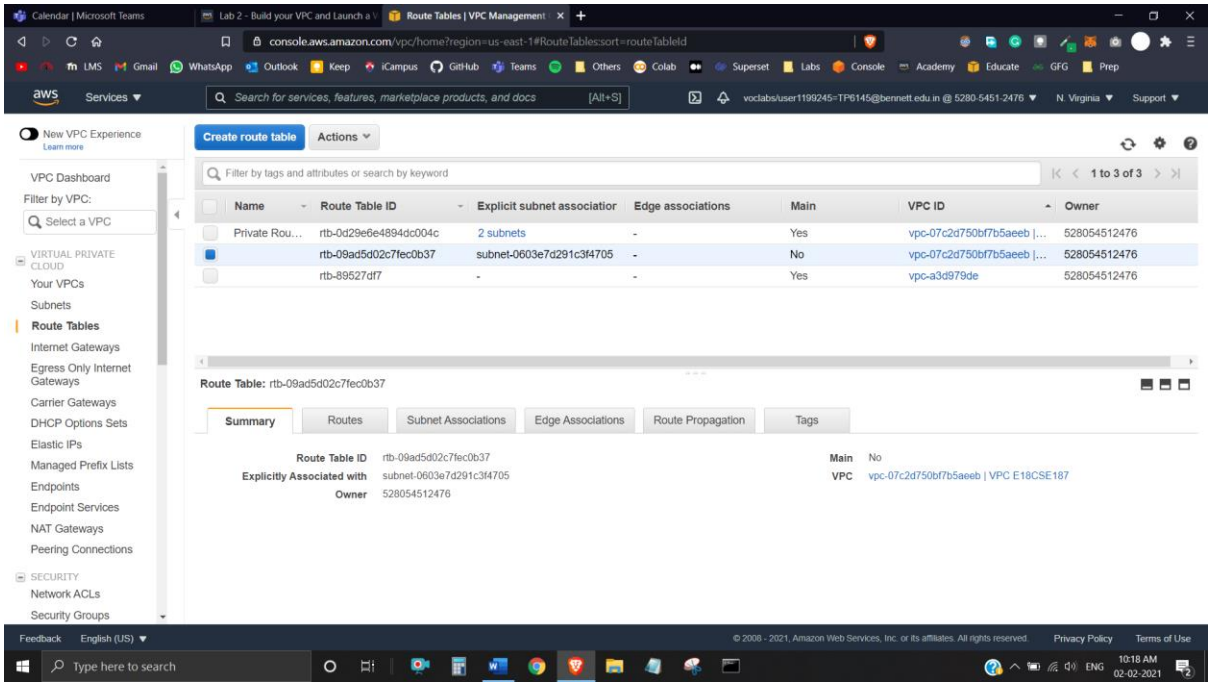


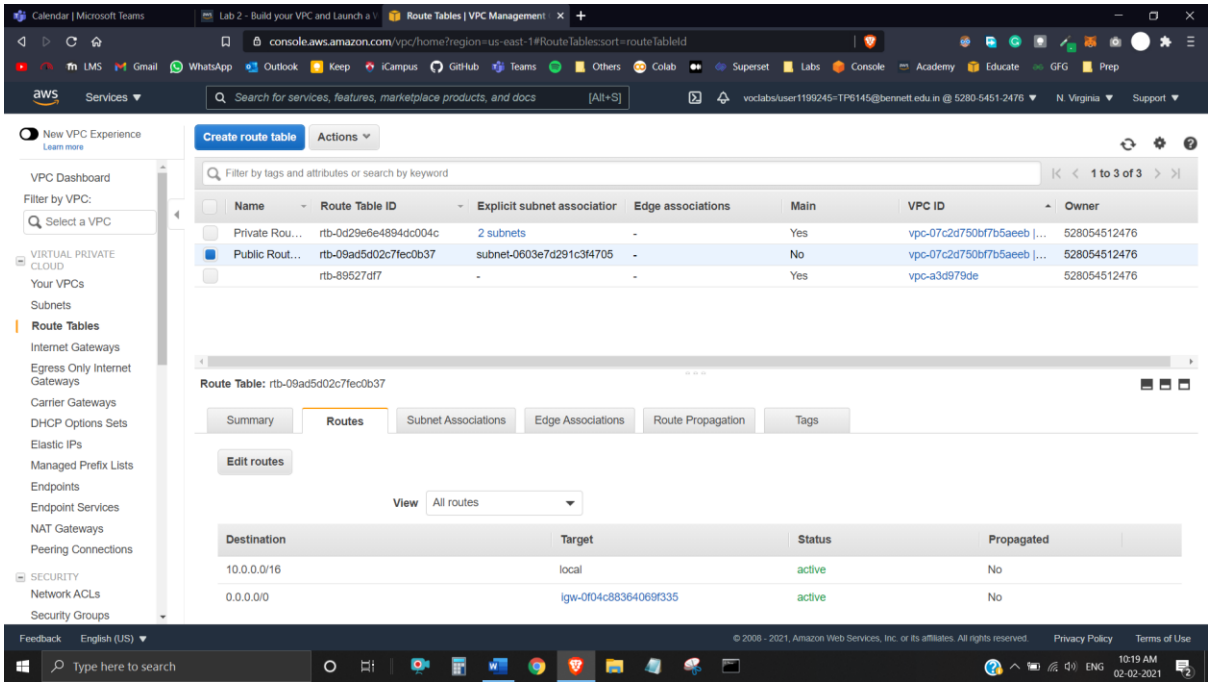


Note that **Destination 0.0.0.0/0** is set to **Target nat-xxxxxxxx**. This means that traffic destined for the internet (0.0.0.0/0) will be sent to the NAT Gateway. The NAT Gateway will then forward the traffic to the internet.

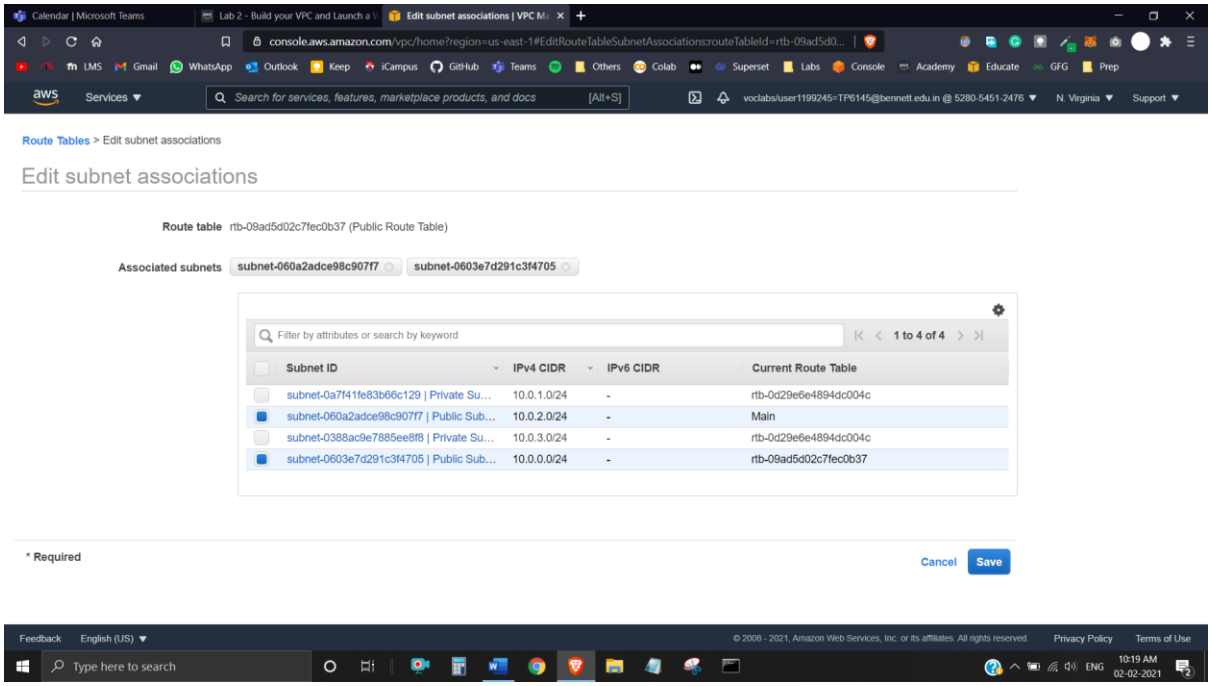

Route Tables > Edit subnet associations
Edit subnet associations
Route table rtb-0d29e6e4894dc004c (Private Route Table)
Associated subnets subnet-0a7f41fe83b66c129 subnet-0388ac9e7885ee8f8
Filter by attributes or search by keyword
1 to 4 of 4
Subnet ID
IPv4 CIDR
IPv6 CIDR
Current Route Table
subnet-0a7f41fe83b66c129 | Private Su... 10.0.1.0/24 - Main
subnet-060a2adce98c907f7 | Public Sub... 10.0.2.0/24 - Main
subnet-0388ac9e7885ee8f8 | Private Su... 10.0.3.0/24 - Main
subnet-0603e7d291c3f4705 | Public Sub... 10.0.0.0/24 - rtb-09ad5d02c7fec0b37
* Required
Cancel
Save

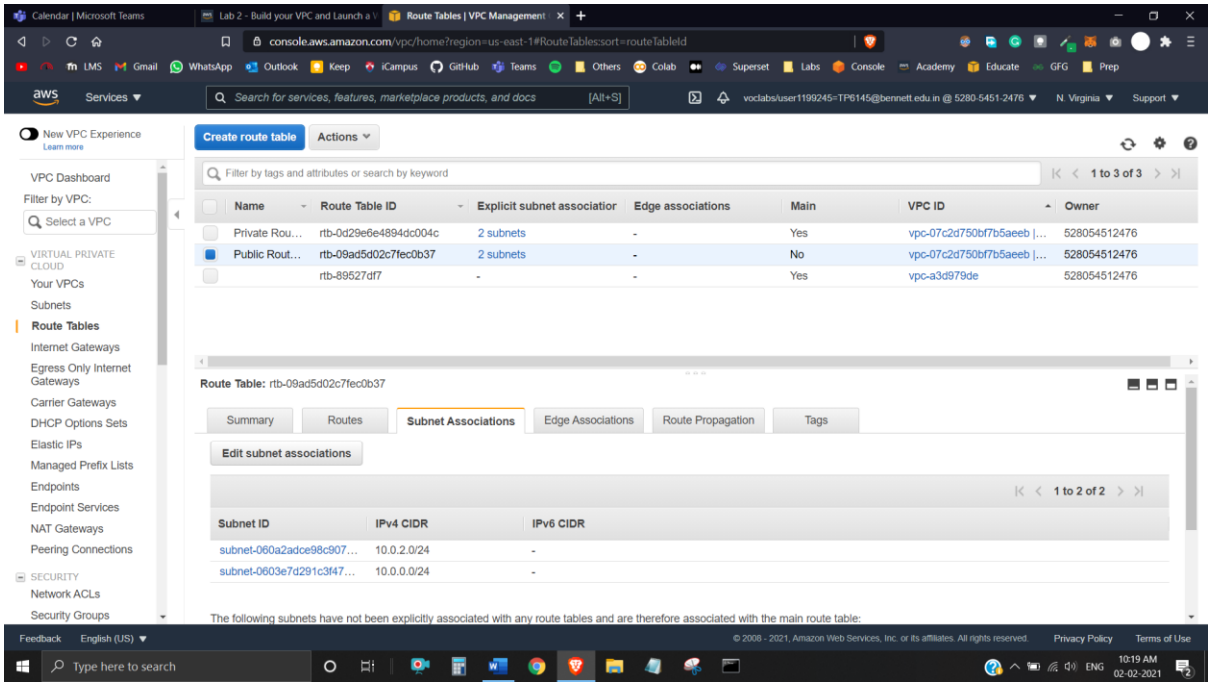

Create route table
Actions
Filter by tags and attributes or search by keyword
1 to 3 of 3
Name
Route Table ID
Explicit subnet association
Edge associations
Main
VPC ID
Owner
Private Rou... rtb-0d29e6e4894dc004c 2 subnets - Yes vpc-07c2d750bf7b5aeeb |... 528054512476
rtb-09ad5d02c7fec0b37 subnet-0603e7d291c3f4705 - No vpc-07c2d750bf7b5aeeb |... 528054512476
rtb-89527df7 - - Yes vpc-a3d979de 528054512476
Route Table: rtb-0d29e6e4894dc004c
Summary
Routes
Subnet Associations
Edge Associations
Route Propagation
Tags
Edit subnet associations
1 to 2 of 2
Subnet ID
IPv4 CIDR
IPv6 CIDR
subnet-0a7f41fe83b66c12... 10.0.1.0/24 -
subnet-0388ac9e7885ee8... 10.0.3.0/24 -
The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:



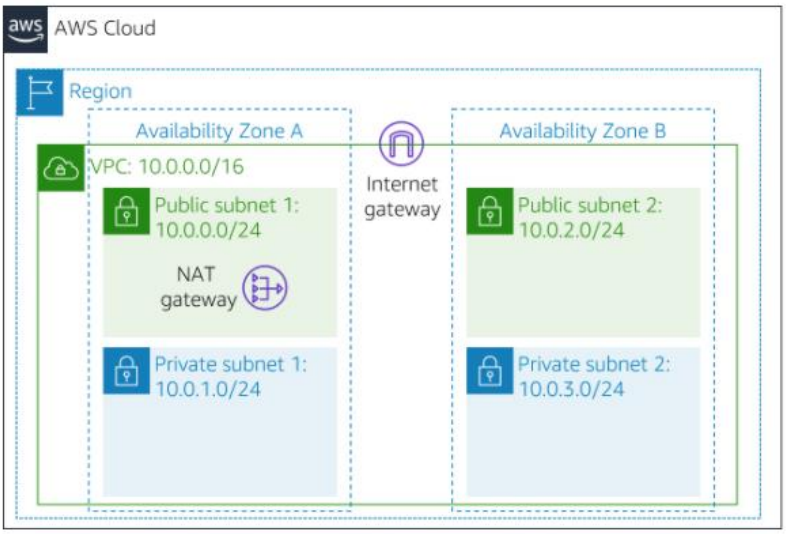


Note that **Destination 0.0.0.0/0** is set to **Target igw-xxxxxxxx**, which is the Internet Gateway. This means that internet-bound traffic will be sent straight to the internet via the Internet Gateway.


Route Tables > Edit subnet associations
Edit subnet associations
Route table rtb-09ad5d02c7fec0b37 (Public Route Table)
Associated subnets subnet-060a2adce98c907f7 subnet-0603e7d291c3f4705
Filter by attributes or search by keyword
1 to 4 of 4
Subnet ID
IPv4 CIDR
IPv6 CIDR
Current Route Table
subnet-0a7f41fe83b66c129 | Private Su... 10.0.1.0/24 - rtb-0d29e6e4894dc004c
subnet-060a2adce98c907f7 | Public Sub... 10.0.2.0/24 - Main
subnet-0388ac9e7885ee8f8 | Private Su... 10.0.3.0/24 - rtb-0d29e6e4894dc004c
subnet-0603e7d291c3f4705 | Public Sub... 10.0.0.0/24 - rtb-09ad5d02c7fec0b37
* Required
Cancel
Save


New VPC Experience
Create route table
Actions
VPC Dashboard
Filter by VPC:
Select a VPC
VIRTUAL PRIVATE CLOUD
Your VPCs
Subnets
Route Tables
Internet Gateways
Egress Only Internet Gateways
Carrier Gateways
DHCP Options Sets
Elastic IPs
Managed Prefix Lists
Endpoints
Endpoint Services
NAT Gateways
Peering Connections
SECURITY
Network ACLs
Security Groups
Filter by tags and attributes or search by keyword
1 to 3 of 3
Name
Route Table ID
Explicit subnet associatior
Edge associations
Main
VPC ID
Owner
Private Rou... rtb-0d29e6e4894dc004c 2 subnets - Yes vpc-07c2d750bf7b5aeeb |... 528054512476
Public Rout... rtb-09ad5d02c7fec0b37 2 subnets - No vpc-07c2d750bf7b5aeeb |... 528054512476
rtb-89527df7 - - Yes vpc-a3d979de 528054512476
Route Table: rtb-09ad5d02c7fec0b37
Summary
Routes
Subnet Associations
Edge Associations
Route Propagation
Tags
Edit subnet associations
1 to 2 of 2
Subnet ID
IPv4 CIDR
IPv6 CIDR
subnet-060a2adce98c907... 10.0.2.0/24 -
subnet-0603e7d291c3f47... 10.0.0.0/24 -
The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

The VPC now has public and private subnets configured in two Availability Zones:



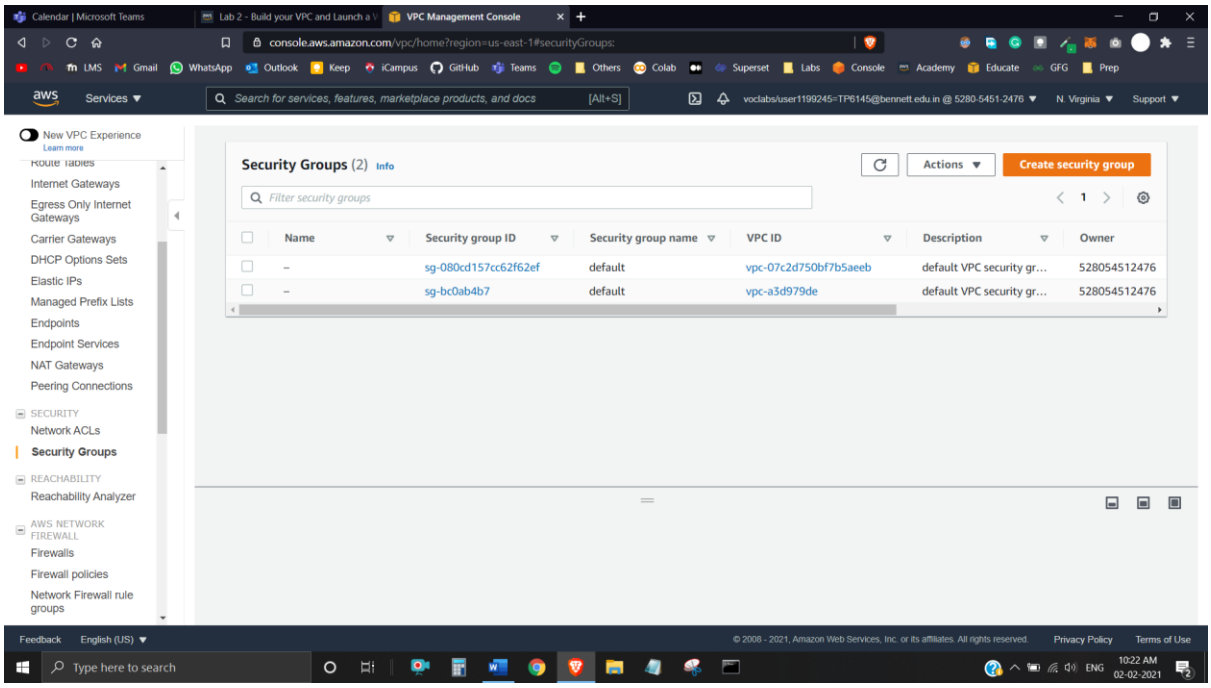
Public Route Table

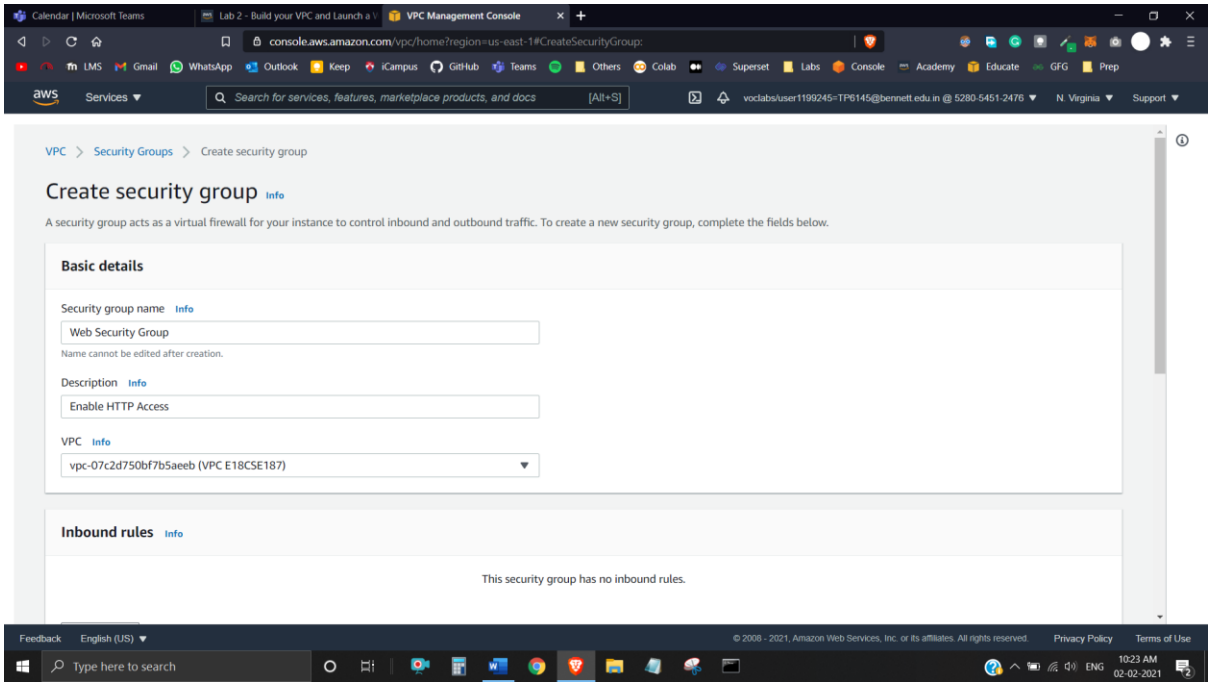
Destination	Target
10.0.0.0/16	Local
0.0.0.0/0	Internet gateway

Private Route Table

Destination	Target
10.0.0.0/16	Local
0.0.0.0/0	NAT gateway

Task 3: Create a VPC Security Group

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Lab 2 - Build your VPC and Launch a V
VPC Management Console
console.aws.amazon.com/vpc/home?region=us-east-1#CreateSecurityGroup:
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aws Services
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voclabs/user1199245=TP6145@bennett.edu.in @ 5280-5451-2476
N. Virginia
Support
VPC > Security Groups > Create security group
Create security group Info
A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.
Basic details
Security group name Info
Web Security Group
Name cannot be edited after creation.
Description Info
Enable HTTP Access
VPC Info
vpc-07c2d750bf7b5aeeb (VPC E18CSE187)
Inbound rules Info
This security group has no inbound rules.
Feedback
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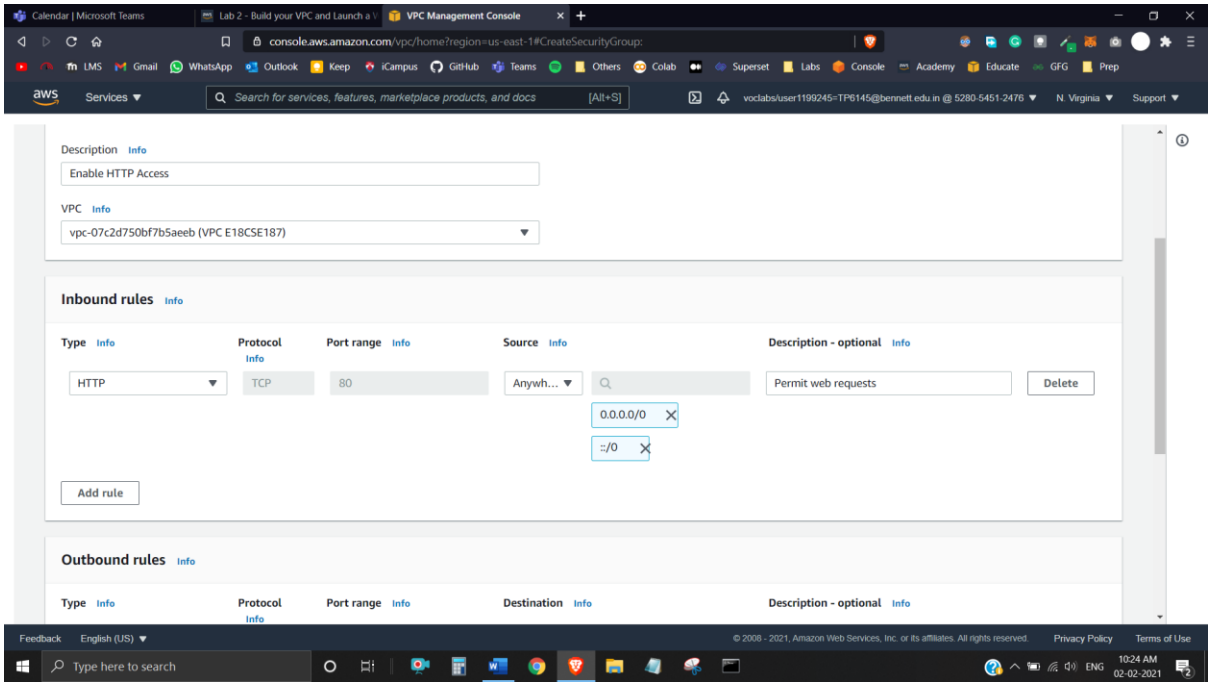
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console.aws.amazon.com/vpc/home?region=us-east-1#CreateSecurityGroup:
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Support
Description Info
Enable HTTP Access
VPC Info
vpc-07c2d750bf7b5aeeb (VPC E18CSE187)
Inbound rules Info
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
HTTP
TCP
80
Anywh...
Permit web requests
Delete
0.0.0.0/0
::/0
Add rule
Outbound rules Info
Type Info
Protocol Info
Port range Info
Destination Info
Description - optional Info
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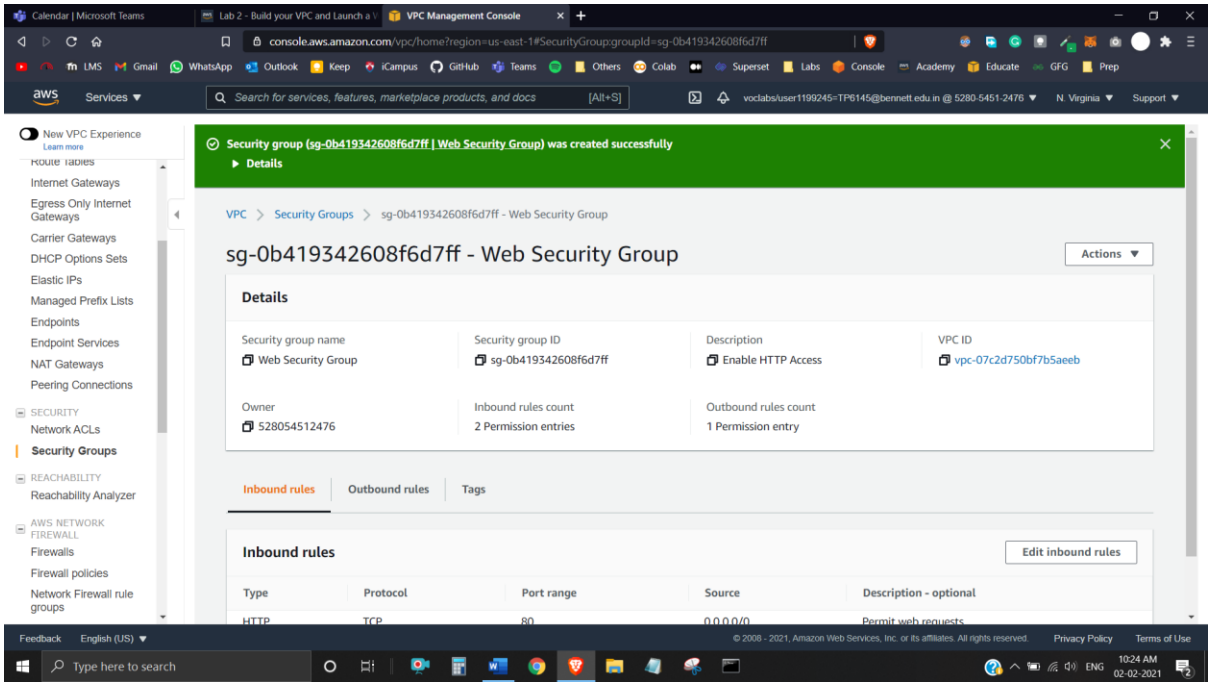
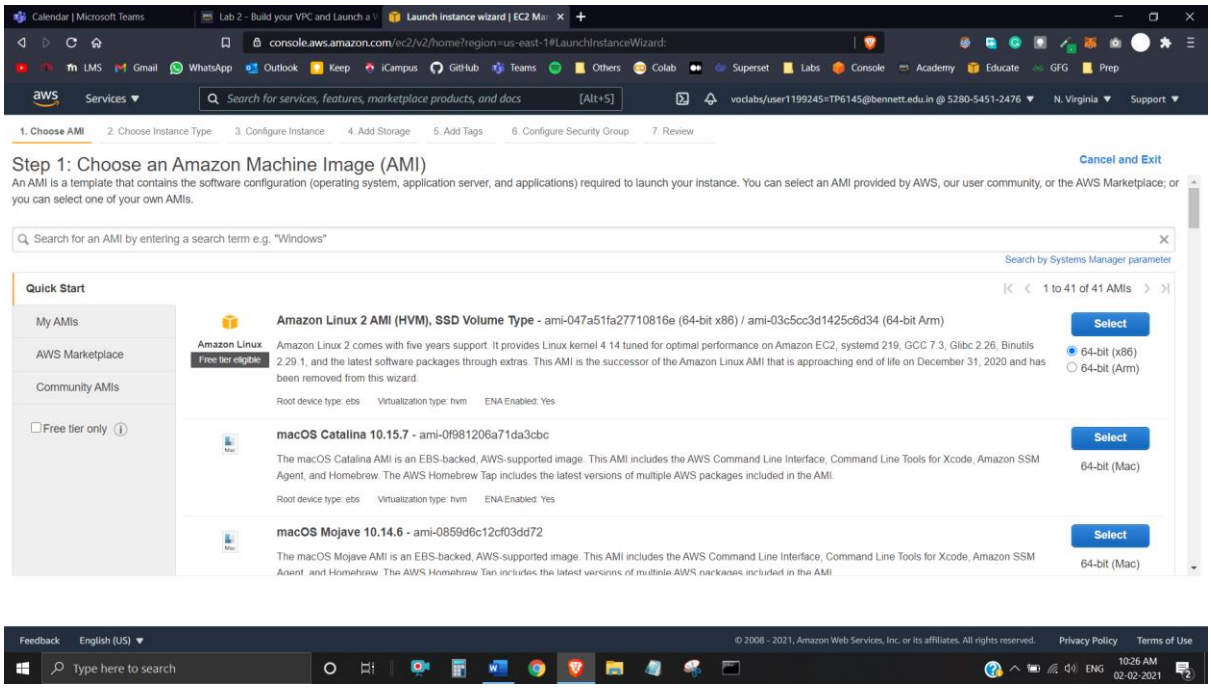
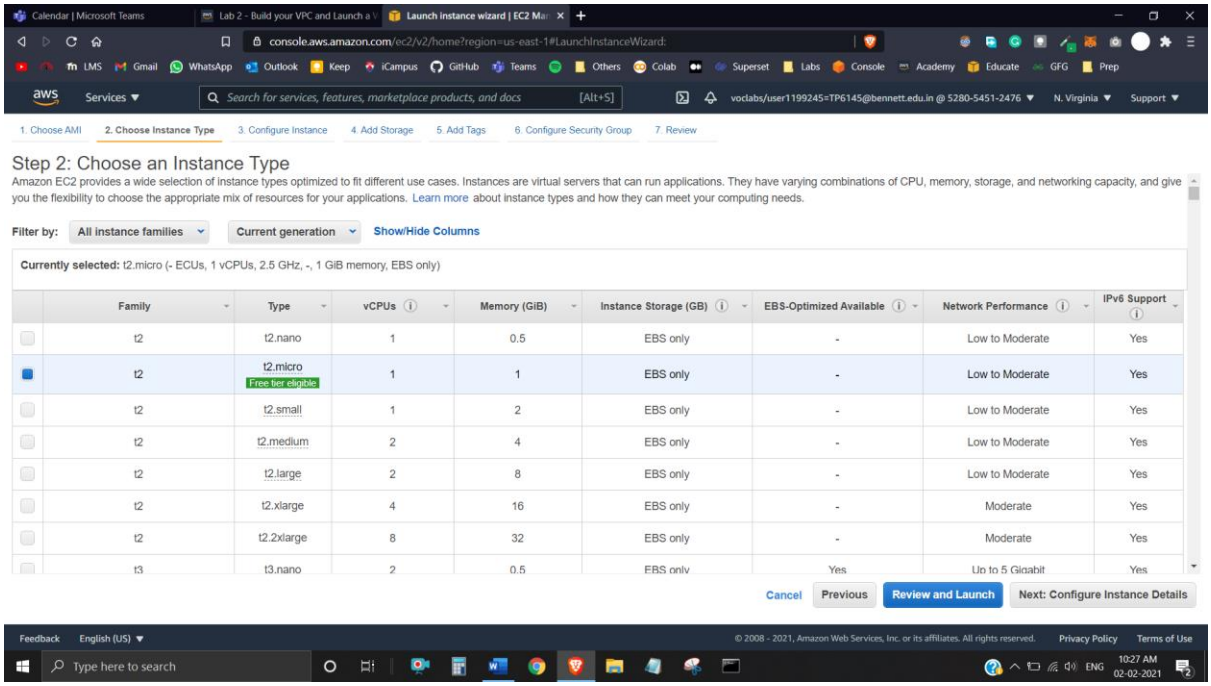


Task 4: Launch a Web Server Instance

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console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:
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Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 2: Choose an Instance Type
Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.
Filter by:
All instance families
Current generation
Show/Hide Columns
Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)
Family
Type
vCPUs
Memory (GiB)
Instance Storage (GB)
EBS-Optimized Available
Network Performance
IPv6 Support
t2 t2.nano 1 0.5 EBS only - Low to Moderate Yes
t2 t2.micro Free tier eligible 1 1 EBS only - Low to Moderate Yes
t2 t2.small 1 2 EBS only - Low to Moderate Yes
t2 t2.medium 2 4 EBS only - Low to Moderate Yes
t2 t2.large 2 8 EBS only - Low to Moderate Yes
t2 t2.xlarge 4 16 EBS only - Moderate Yes
t2 t2.2xlarge 8 32 EBS only - Moderate Yes
t3 t3.nano 2 0.5 EBS only Yes Up to 5 Gigabit Yes
Cancel
Previous
Review and Launch
Next: Configure Instance Details
Feedback
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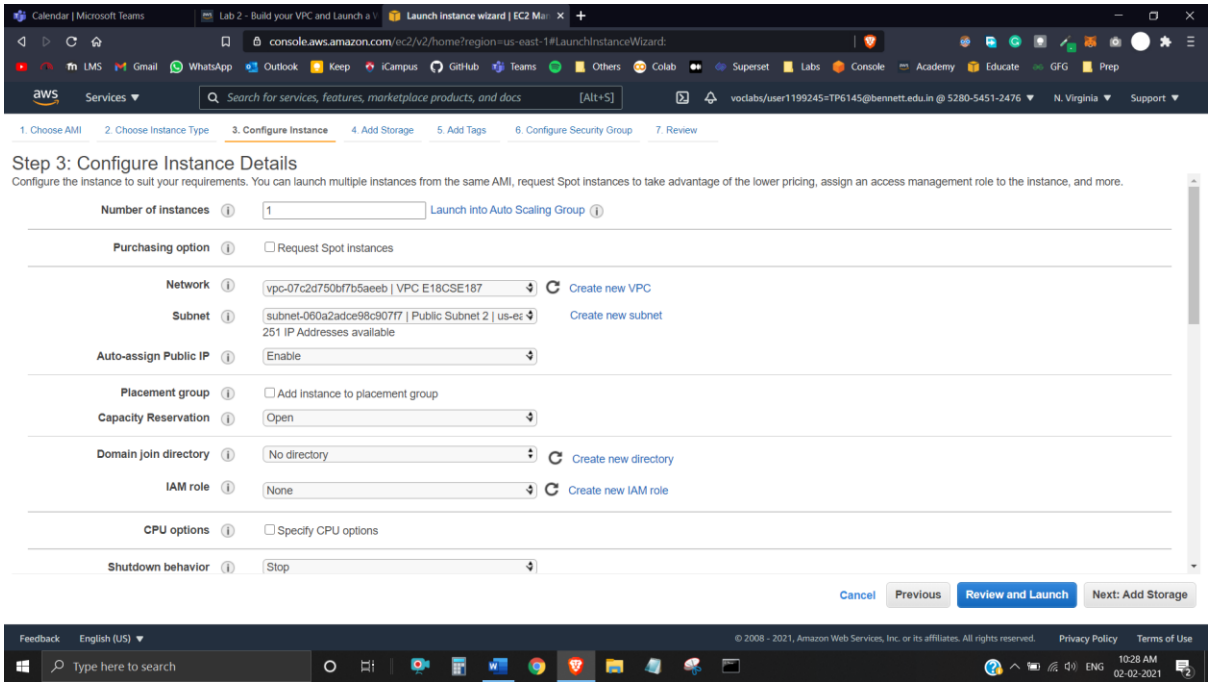
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console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:
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Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 3: Configure Instance Details
Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.
Number of instances 1 Launch into Auto Scaling Group
Purchasing option Request Spot instances
Network vpc-07c2d750bf7b5aeeb | VPC E18CSE187 Create new VPC
Subnet subnet-060a2adce98c907f7 | Public Subnet 2 | us-ea Create new subnet
251 IP Addresses available
Auto-assign Public IP Enable
Placement group Add instance to placement group
Capacity Reservation Open
Domain join directory No directory Create new directory
IAM role None Create new IAM role
CPU options Specify CPU options
Shutdown behavior Stop
Cancel
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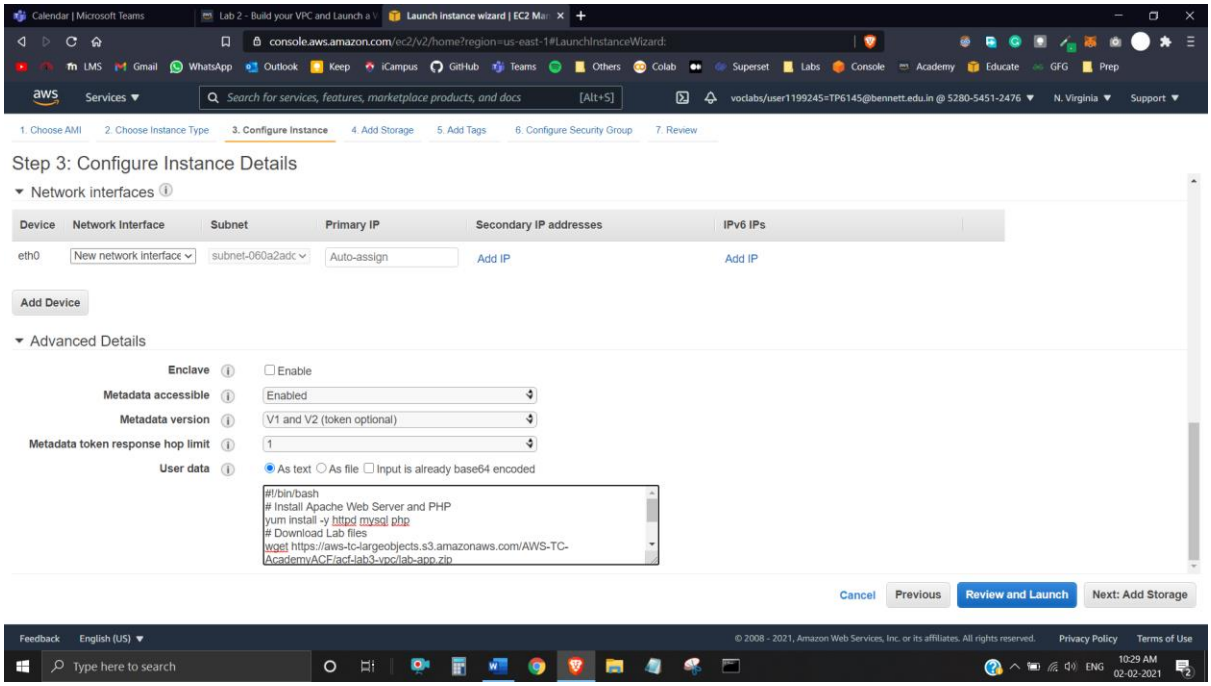
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Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 3: Configure Instance Details
Network interfaces
Device
Network Interface
Subnet
Primary IP
Secondary IP addresses
IPv6 IPs
eth0
New network interface
subnet-060a2adc
Auto-assign
Add IP
Add IP
Add Device
Advanced Details
Enclave
Enable
Metadata accessible
Enabled
Metadata version
V1 and V2 (token optional)
Metadata token response hop limit
1
User data
As text
As file
Input is already base64 encoded
#!/bin/bash
Install Apache Web Server and PHP
yum install -y httpd mysql php
Download Lab files
wget https://aws-tc-largeobjects.s3.amazonaws.com/AWS-TC-AcademyACF/acf-lab3-vpc/lab-app.zip
Cancel
Previous
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Next: Add Storage
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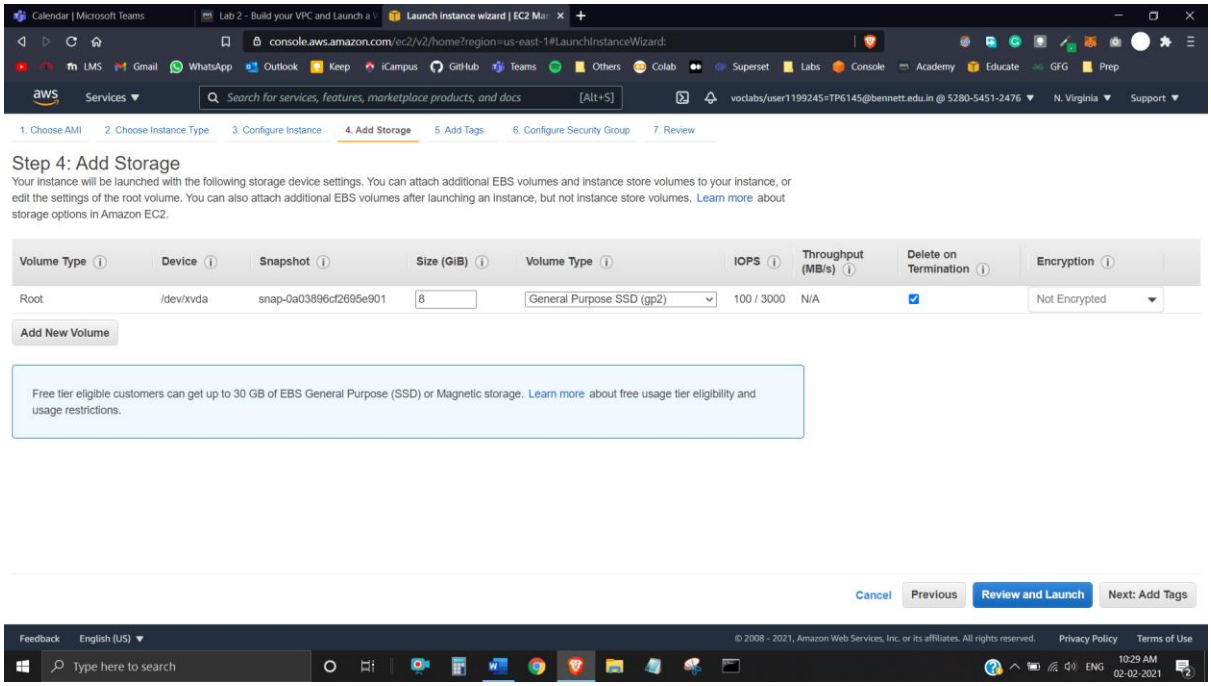
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console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:
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Support
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2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 4: Add Storage
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. Learn more about storage options in Amazon EC2.
Volume Type
Device
Snapshot
Size (GiB)
Volume Type
IOPS
Throughput (MB/s)
Delete on Termination
Encryption
Root
/dev/xvda
snap-0a03896cf2695e901
8
General Purpose SSD (gp2)
100 / 3000
N/A
Not Encrypted
Add New Volume
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. Learn more about free usage tier eligibility and usage restrictions.
Cancel
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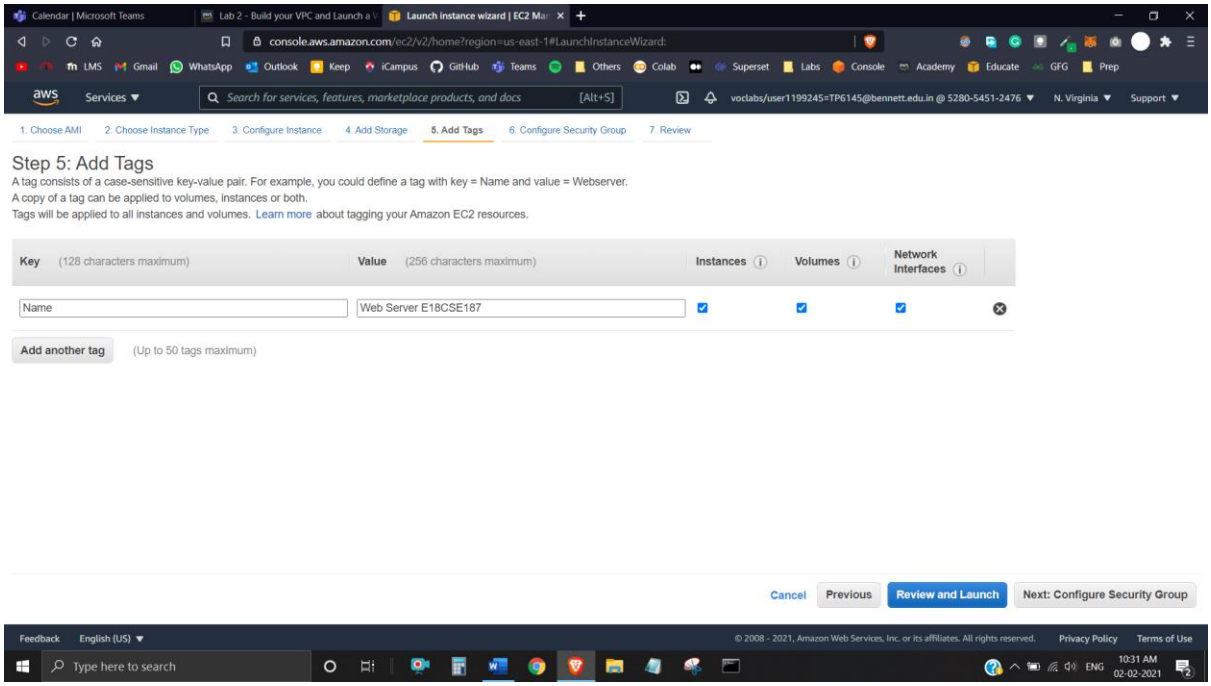
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Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 5: Add Tags
A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. Learn more about tagging your Amazon EC2 resources.
Key (128 characters maximum)
Value (256 characters maximum)
Instances
Volumes
Network Interfaces
Name
Web Server E18CSE187
Add another tag
(Up to 50 tags maximum)
Cancel
Previous
Review and Launch
Next: Configure Security Group
Feedback
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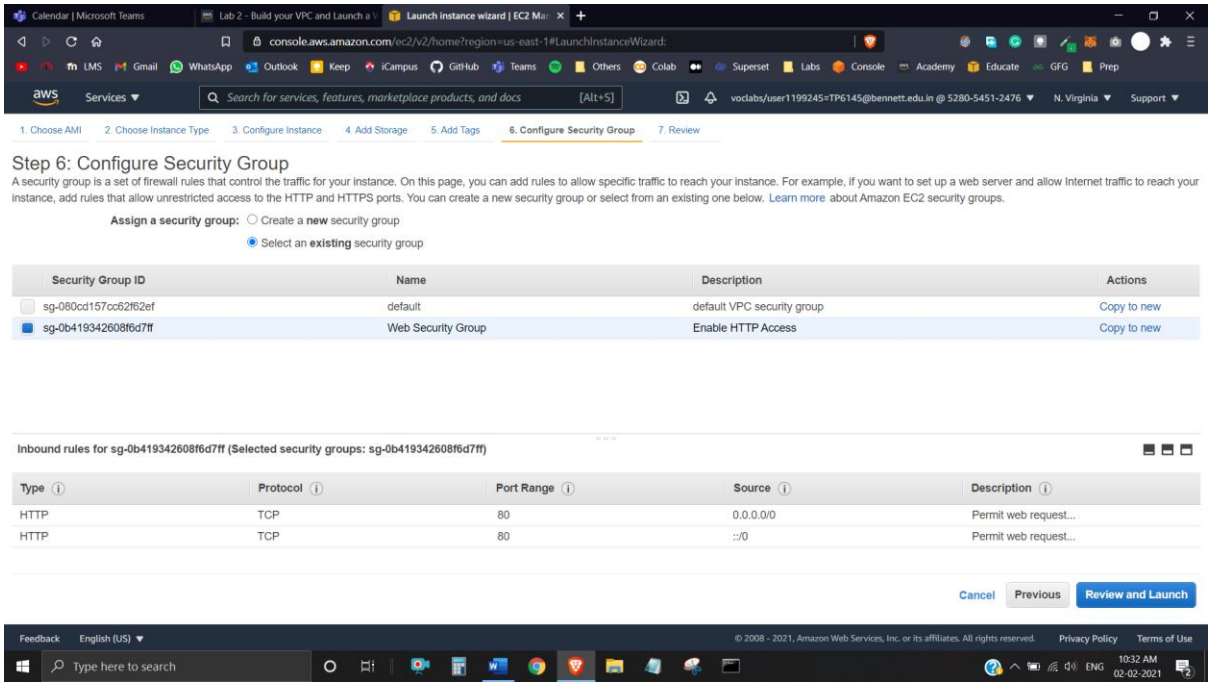
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console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:
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Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 6: Configure Security Group
A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. Learn more about Amazon EC2 security groups.
Assign a security group: Create a new security group
Select an existing security group
Security Group ID
Name
Description
Actions
sg-080cd157cc62f62ef
default
default VPC security group
Copy to new
sg-0b419342608f6d7ff
Web Security Group
Enable HTTP Access
Copy to new
Inbound rules for sg-0b419342608f6d7ff (Selected security groups: sg-0b419342608f6d7ff)
Type
Protocol
Port Range
Source
Description
HTTP
TCP
80
0.0.0.0/0
Permit web request...
HTTP
TCP
80
::/0
Permit web request...
Cancel
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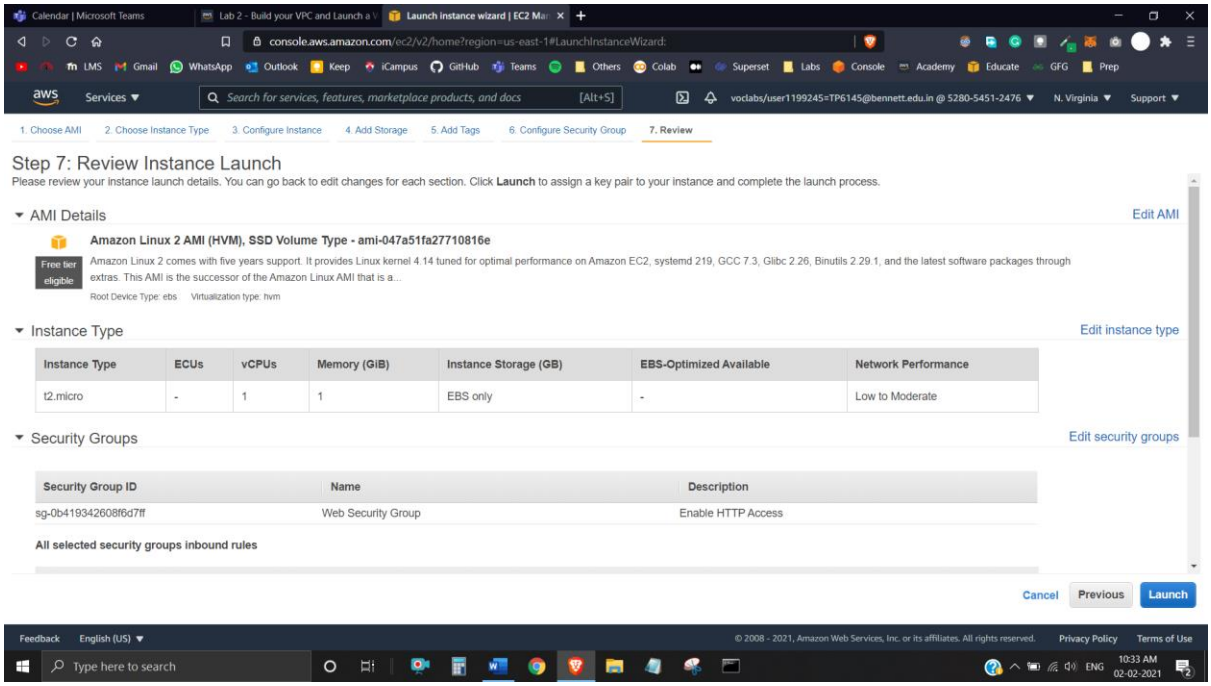
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Launch instance wizard | EC2 Mar
console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:
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Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 7: Review Instance Launch
Please review your instance launch details. You can go back to edit changes for each section. Click Launch to assign a key pair to your instance and complete the launch process.
AMI Details
Edit AMI
Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-047a51fa27710816e
Free tier eligible
Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is a...
Root Device Type: ebs Virtualization type: hvm
Instance Type
Edit instance type
Instance Type | ECUs | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance
t2.micro | - | 1 | 1 | EBS only | - | Low to Moderate
Security Groups
Edit security groups
Security Group ID | Name | Description
sg-0b419342608f6d7ff | Web Security Group | Enable HTTP Access
All selected security groups inbound rules
Cancel
Previous
Launch
Feedback
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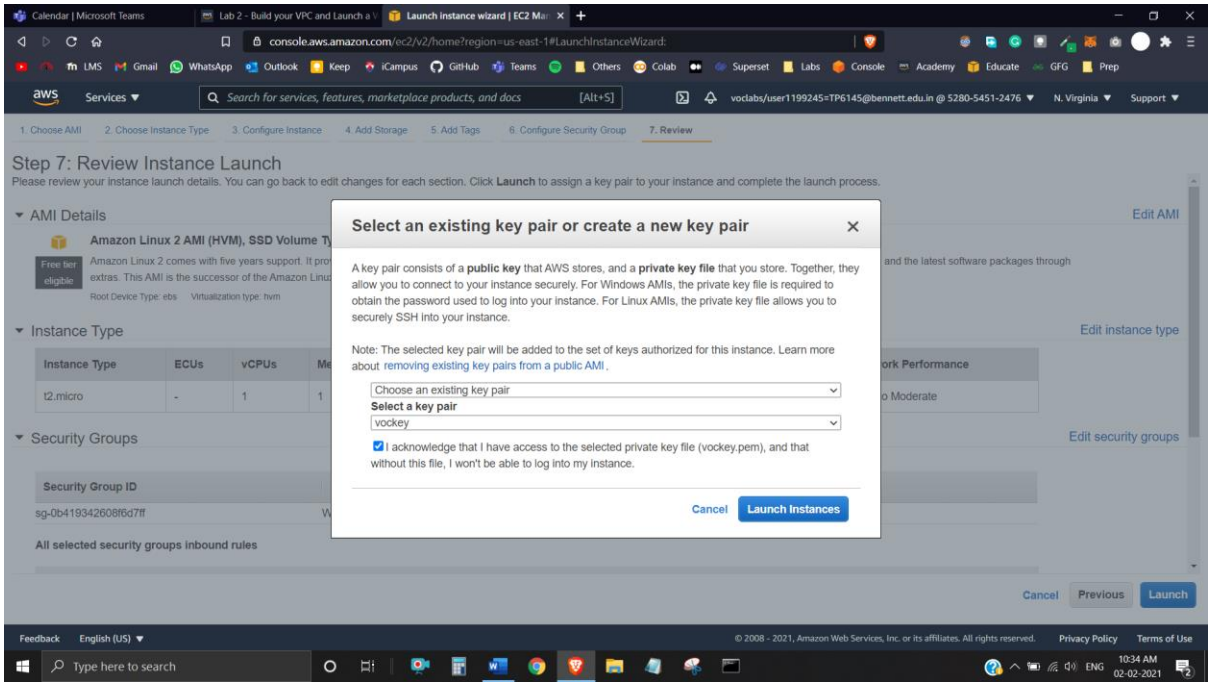
Select an existing key pair or create a new key pair
A key pair consists of a public key that AWS stores, and a private key file that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.
Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.
Choose an existing key pair
Select a key pair
vockey
I acknowledge that I have access to the selected private key file (vockey.pem), and that without this file, I won't be able to log into my instance.
Cancel
Launch Instances
10:34 AM
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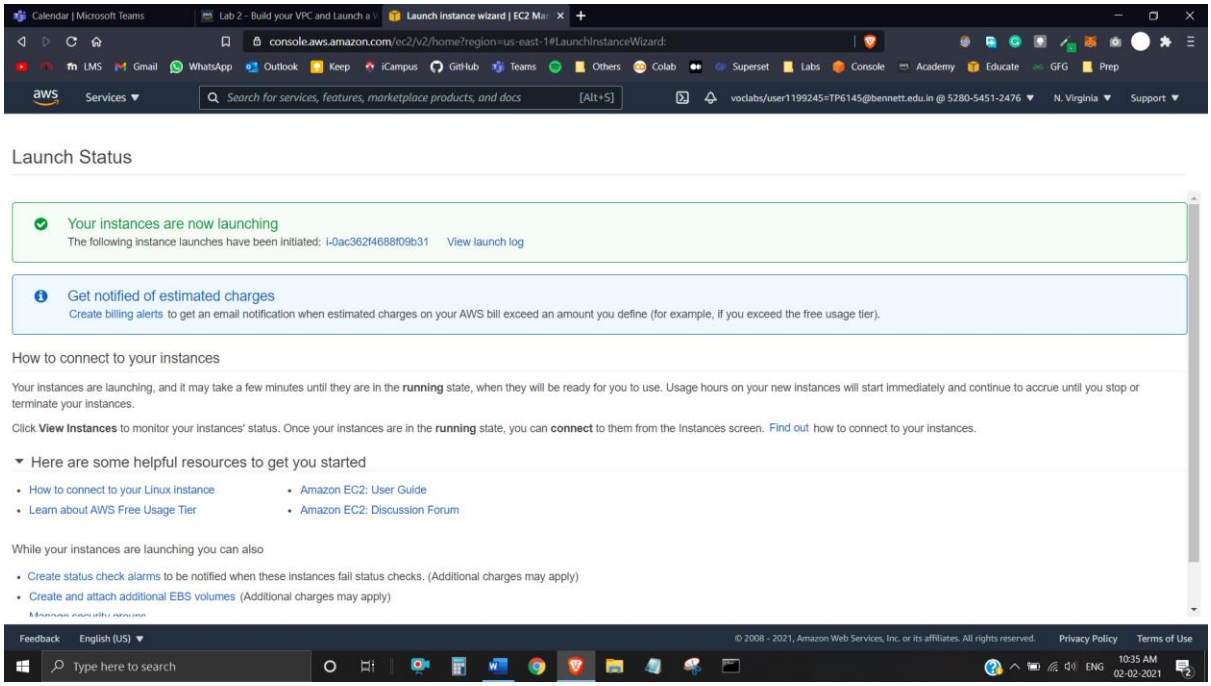
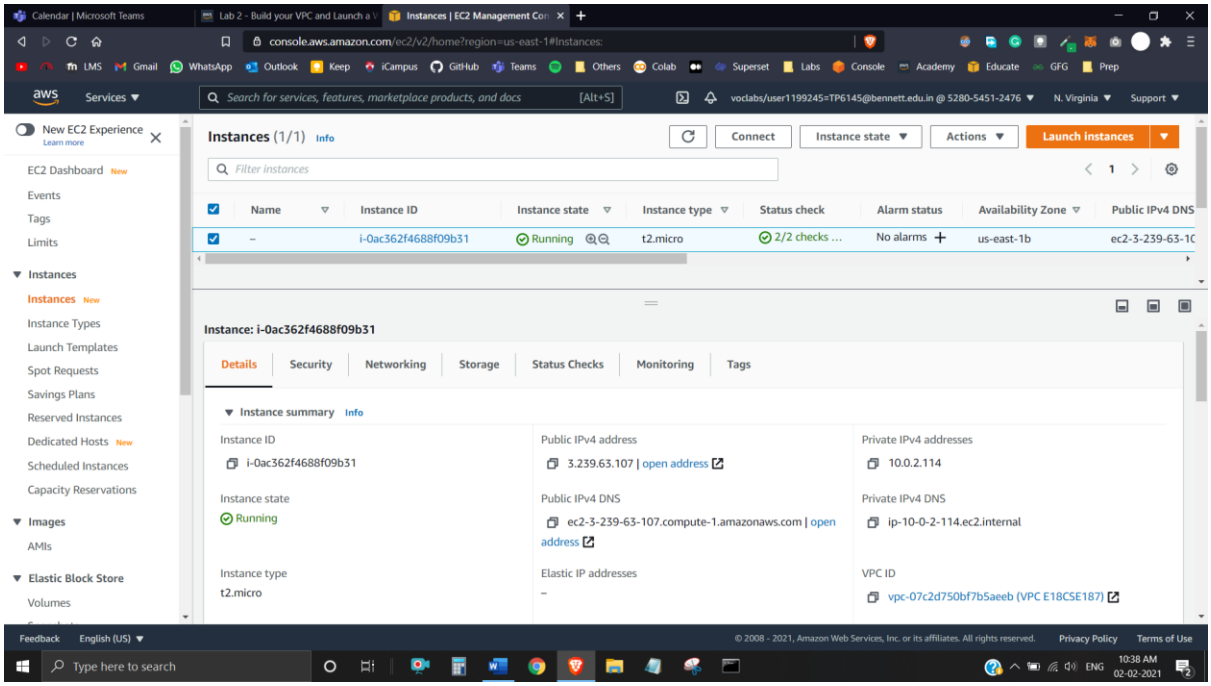
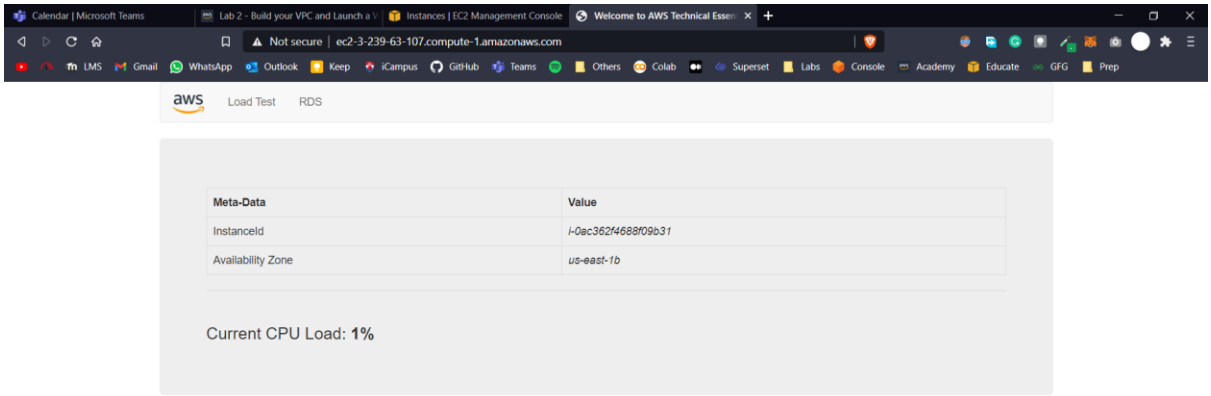

Launch Status
Your instances are now launching
The following instance launches have been initiated: i-0ac362f4688f09b31 View launch log
Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).
How to connect to your instances
Your instances are launching, and it may take a few minutes until they are in the running state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.
Click View Instances to monitor your instances' status. Once your instances are in the running state, you can connect to them from the Instances screen. Find out how to connect to your instances.
Here are some helpful resources to get you started
How to connect to your Linux instance
Learn about AWS Free Usage Tier
Amazon EC2: User Guide
Amazon EC2: Discussion Forum
While your instances are launching you can also
Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)
Create and attach additional EBS volumes (Additional charges may apply)


Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
i-0ac362f4688f09b31
Running
t2.micro
2/2 checks ...
No alarms
us-east-1b
Instance: i-0ac362f4688f09b31
Details
Security
Networking
Storage
Status Checks
Monitoring
Tags
Instance summary Info
Instance ID
i-0ac362f4688f09b31
Public IPv4 address
3.239.63.107 | open address
Private IPv4 addresses
10.0.2.114
Instance state
Running
Public IPv4 DNS
ec2-3-239-63-107.compute-1.amazonaws.com | open address
Private IPv4 DNS
ip-10-0-2-114.ec2.internal
Instance type
t2.micro
Elastic IP addresses
VPC ID
vpc-07c2d750bf7b5aeeb (VPC E18CSE187)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Instances | EC2 Management Console
Welcome to AWS Technical Essen
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aws
Load Test
RDS
Meta-Data
Value
InstanceId
i-0ac362f4688f09b31
Availability Zone
us-east-1b
Current CPU Load: 1%


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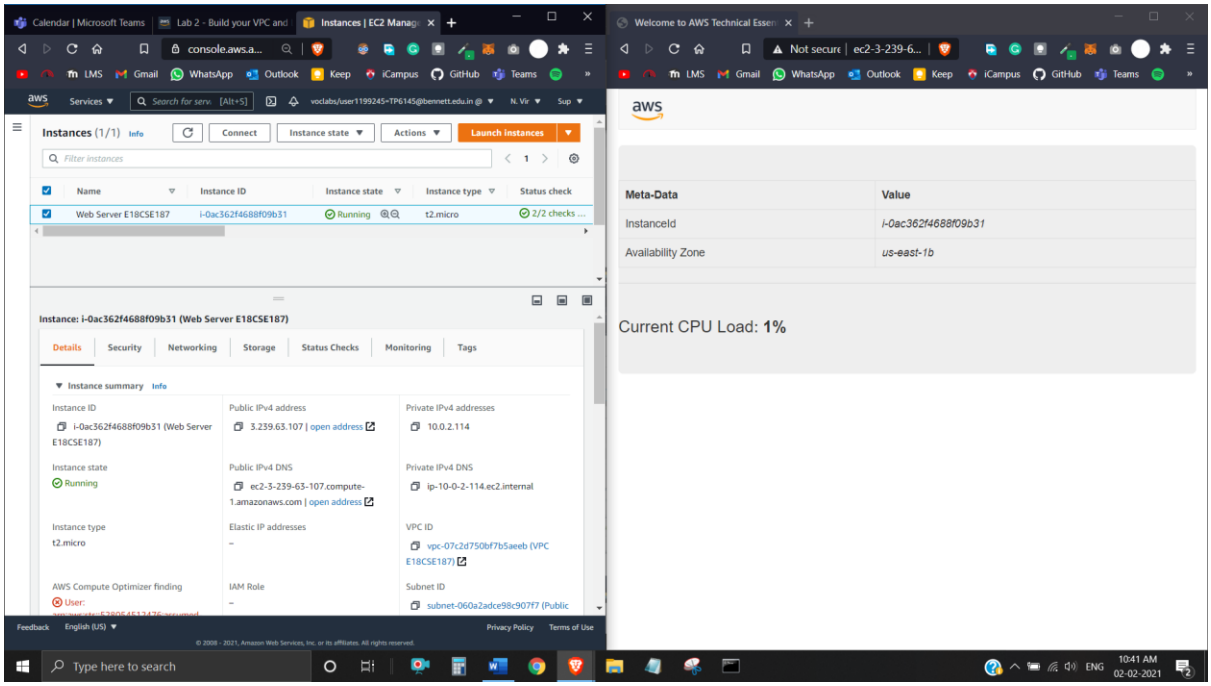
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Instances | EC2 Manag
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Services
Search for serv [Alt+S]
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Filter instances
Name
Instance ID
Instance state
Instance type
Status check
Web Server E18CSE187
i-0ac362f4688f09b31
Running
t2.micro
2/2 checks ...
Instance: i-0ac362f4688f09b31 (Web Server E18CSE187)
Details
Security
Networking
Storage
Status Checks
Monitoring
Tags
Instance summary Info
Instance ID
i-0ac362f4688f09b31 (Web Server E18CSE187)
Public IPv4 address
3.239.63.107 | open address
Private IPv4 addresses
10.0.2.114
Instance state
Running
Public IPv4 DNS
ec2-3-239-63-107.compute-1.amazonaws.com | open address
Private IPv4 DNS
ip-10-0-2-114.ec2.internal
Instance type
t2.micro
Elastic IP addresses
VPC ID
vpc-07c2d750bf7b5aeeb (VPC E18CSE187)
AWS Compute Optimizer finding
IAM Role
Subnet ID
subnet-060a2adce98c907f7 (Public
Feedback
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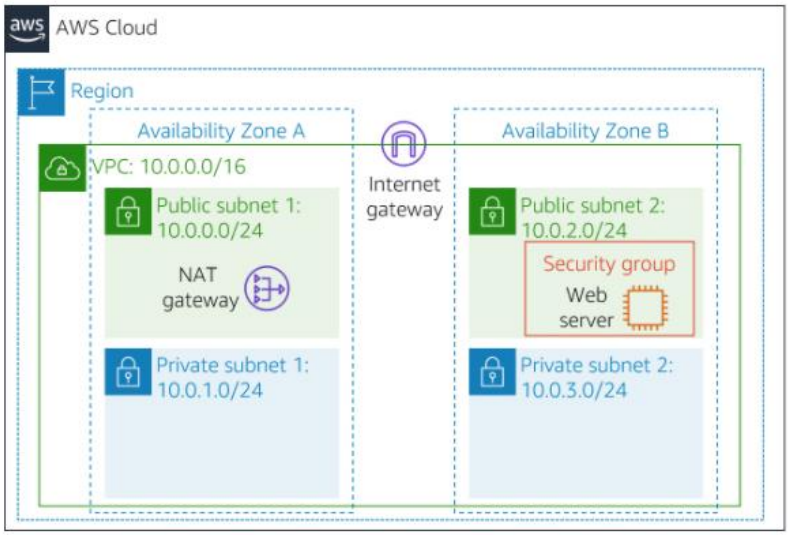
Meta-Data
Value
InstanceId
i-0ac362f4688f09b31
Availability Zone
us-east-1b
Current CPU Load: 1%
Type here to search
ENG
10:41 AM
02-02-2021

The complete architecture deployed is:



Public Route Table

Destination	Target
10.0.0.0/16	Local
0.0.0.0/0	Internet gateway

Private Route Table

Destination	Target
10.0.0.0/16	Local
0.0.0.0/0	NAT gateway