Capstone Project 5: Configure Cloud Peering

Sayan Kelley Jr

Step 1:

a. How much does peering cost?

- AWS VPC Peering itself is free — you are not charged for creating or maintaining the peering connection.
- However, data transfer fees are applied when traffic moves between peered VPCs.

b. Can you peer with a virtual network in another account?

- Yes, you can peer VPCs across different AWS accounts, as long as they are in the same region or configured correctly for inter-region peering.

c. Is peering transitive?

- No, VPC peering in AWS is not transitive.
- If VPC A is peered with VPC B, and VPC B is peered with VPC C, A cannot automatically communicate with C.

d. Where is peering configured in the cloud platform?

- In the AWS Management Console, under VPC Dashboard > Peering Connections.

e. What resources must already exist before peering can be established?

- You must have two VPCs already created with non-overlapping CIDR blocks.

f. What are the basic steps to create the peering connection?

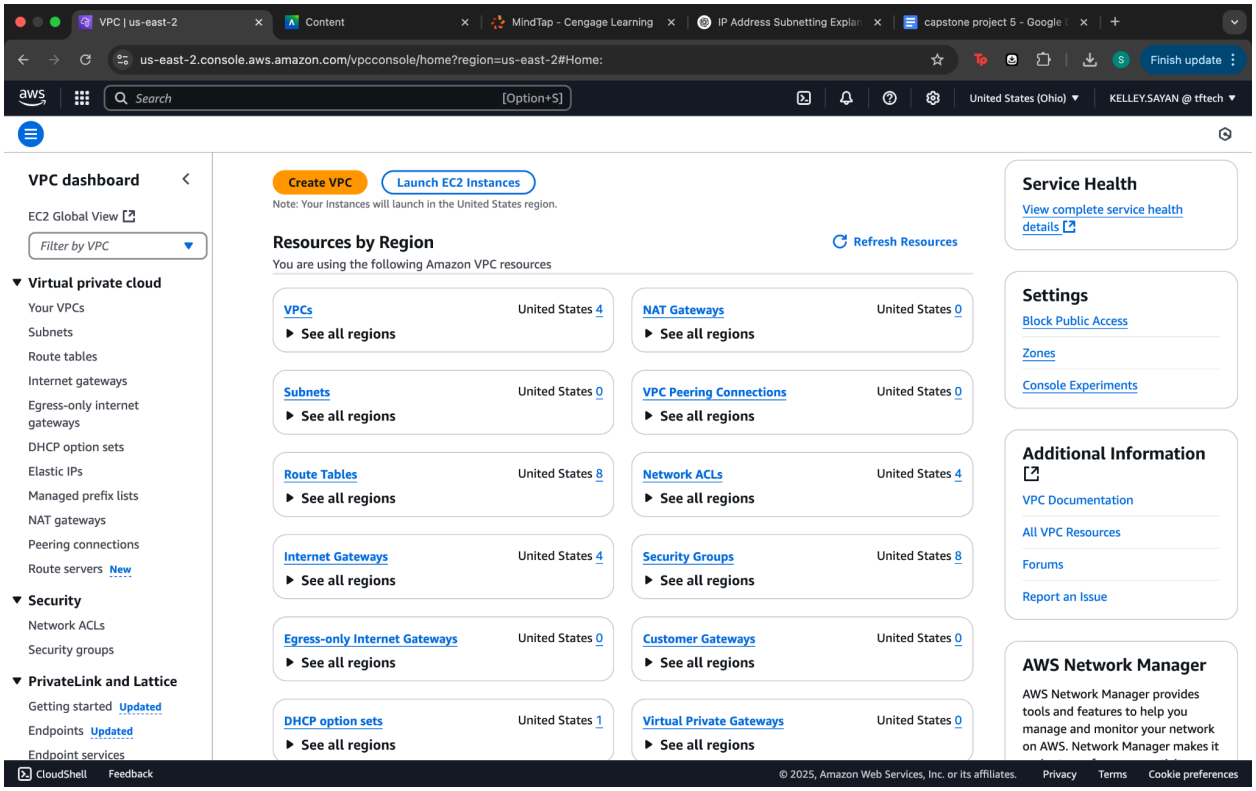
1. Go to VPC Dashboard.
2. Select Peering Connections and Create Peering Connection.
3. Choose a requester VPC and accepter VPC (can be in the same or different account).
4. Accept the peering request on the other side.
5. Update the route tables in each VPC to allow traffic to flow between them.

g. What significant limitations exist on the peering service for this platform?

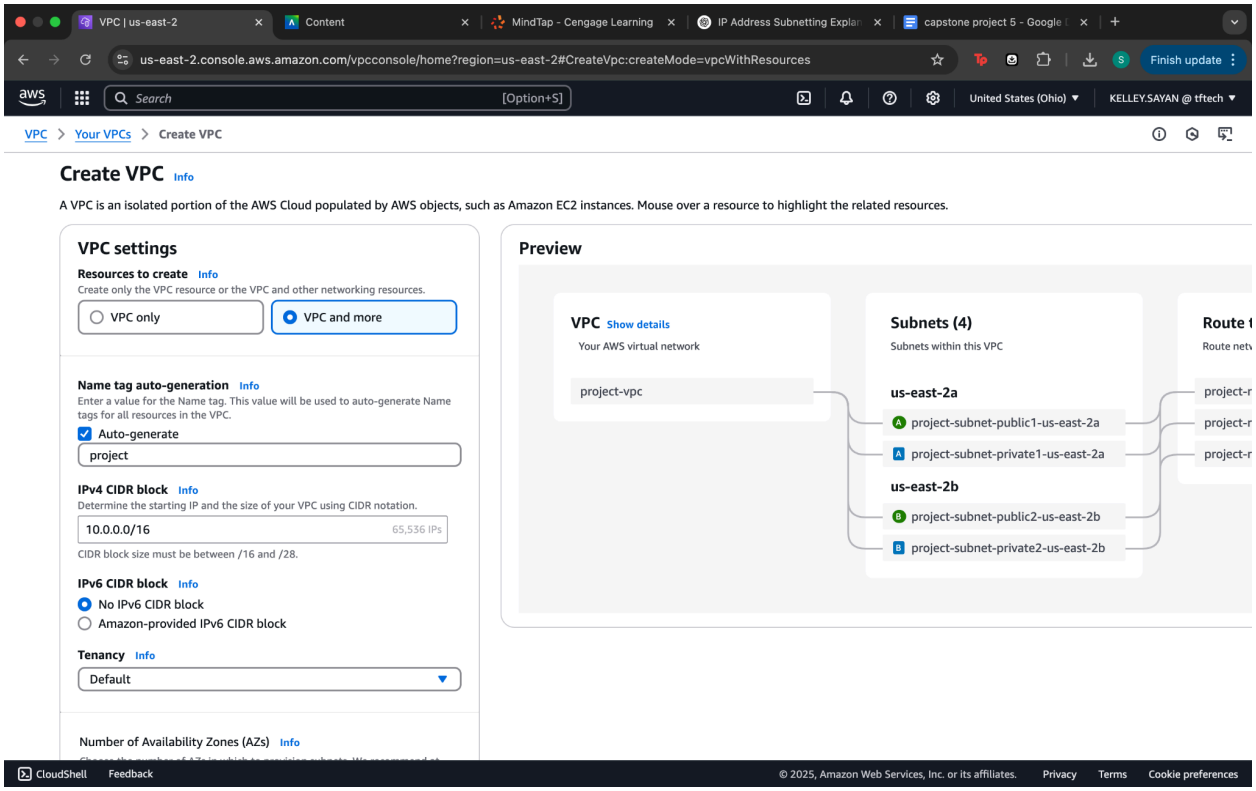
- No transitive peering.
- No overlapping CIDR blocks allowed.
- Cannot use VPC peering to connect to VPCs in unsupported regions.
- Cannot use VPC peering across AWS China regions and AWS GovCloud regions.

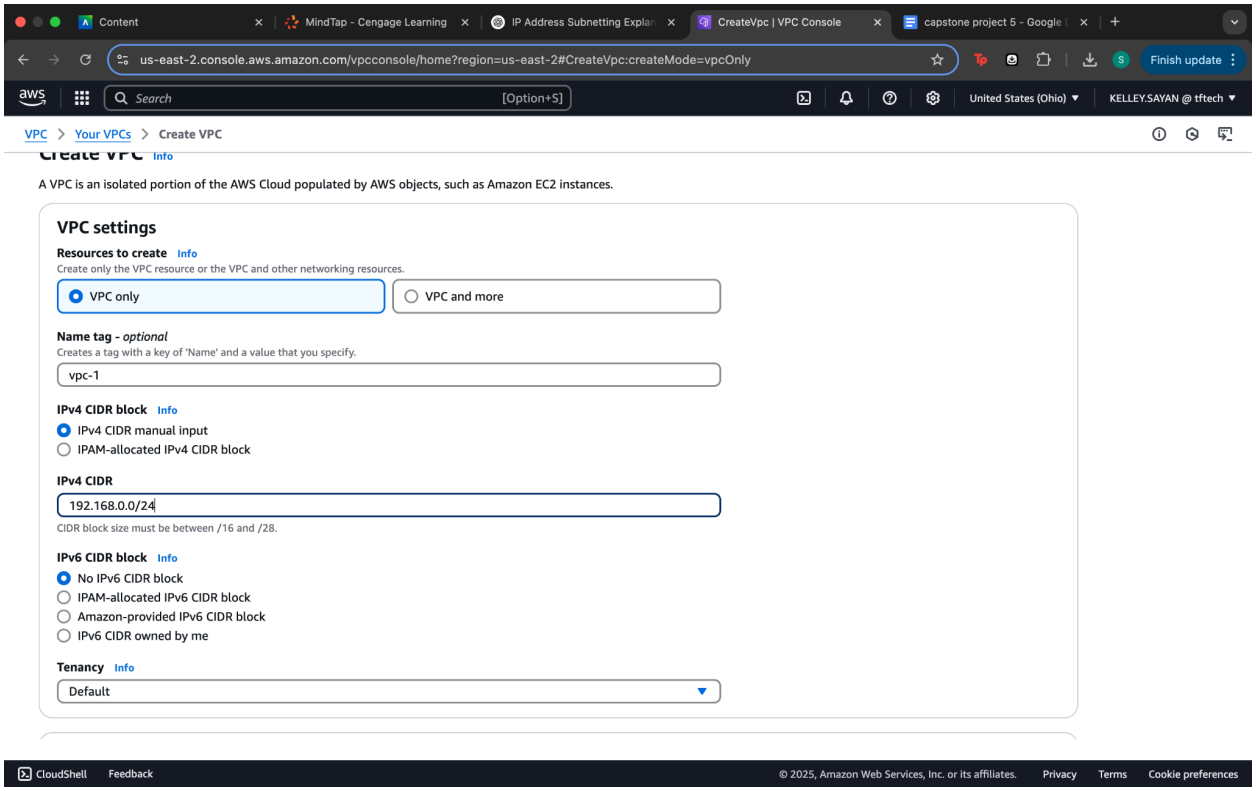
Step 2:

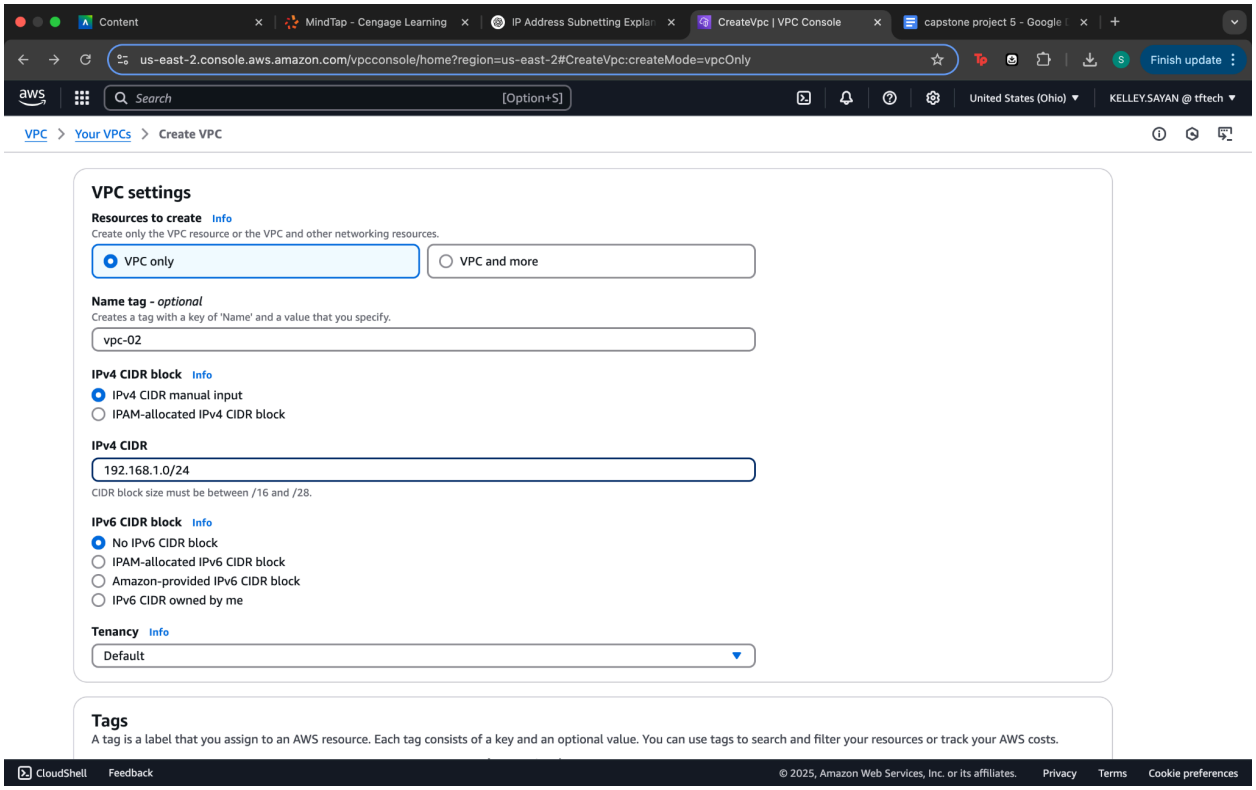
Go to the VPC Dashboard.



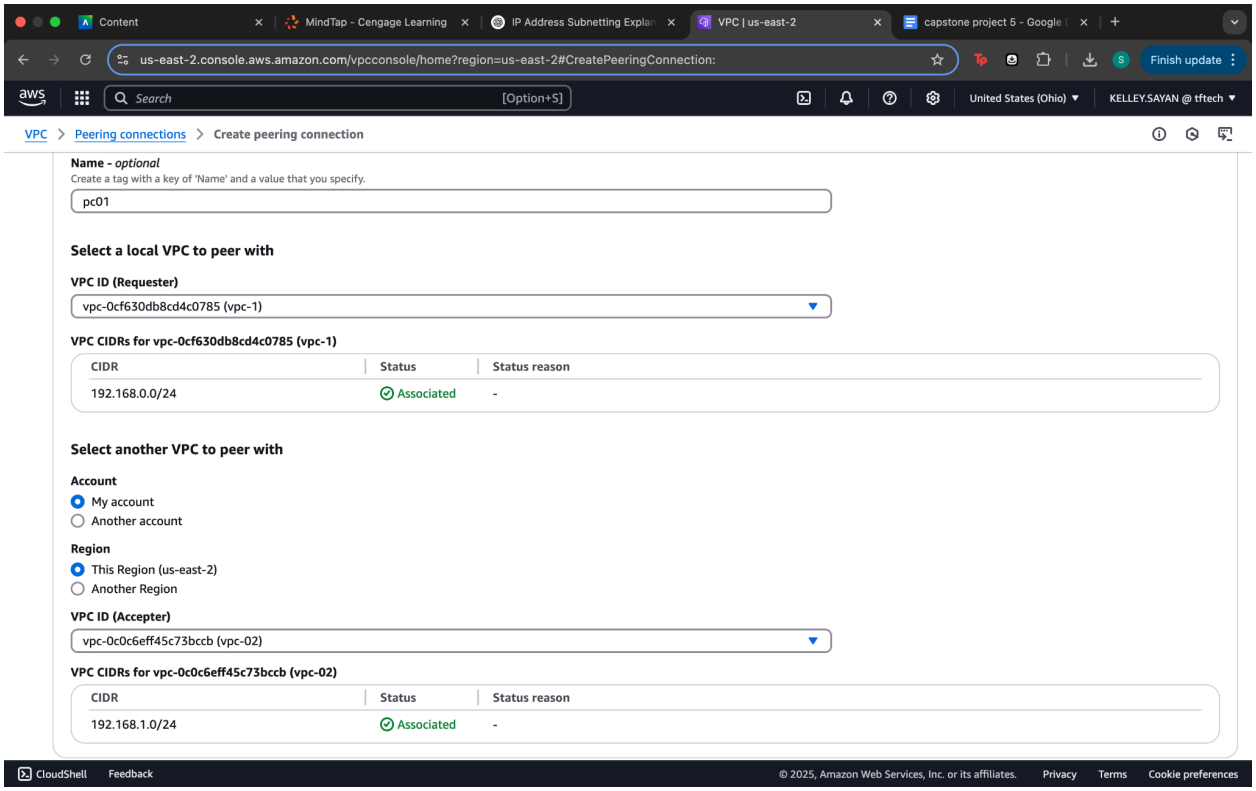
Create vpc’s 1 and 2

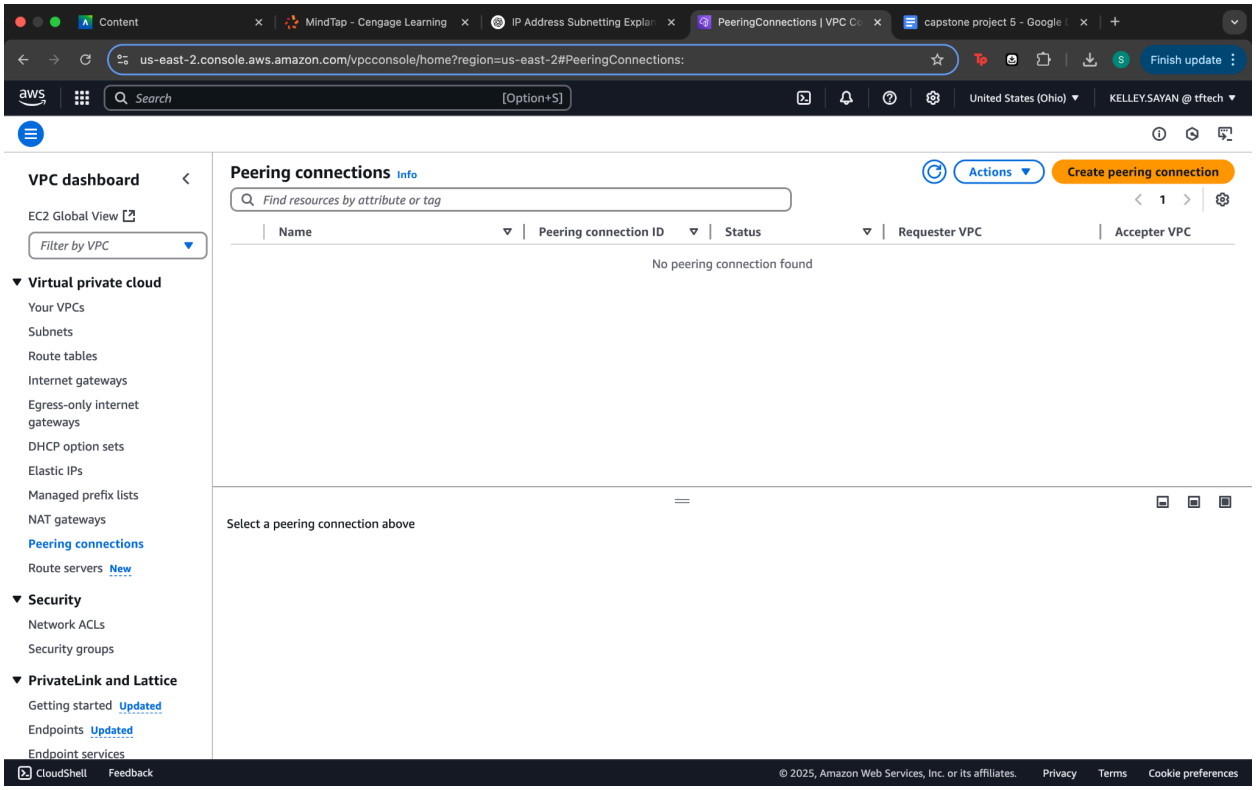






Create peering connection




Content
MindTap - Cengage Learning
IP Address Subnetting Explan
PeeringConnections | VPC Co
capstone project 5 - Google
us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#PeeringConnections:
Finish update
Search
[Option+S]
United States (Ohio)
KELLEY.SAYAN @ tftech
VPC dashboard
EC2 Global View
Filter by VPC
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Route servers New
Security
Network ACLs
Security groups
PrivateLink and Lattice
Getting started Updated
Endpoints Updated
Endpoint services
Peering connections Info
Actions
Create peering connection
Find resources by attribute or tag
1
Name
Peering connection ID
Status
Requester VPC
Accepter VPC
No peering connection found
Select a peering connection above
CloudShell
Feedback
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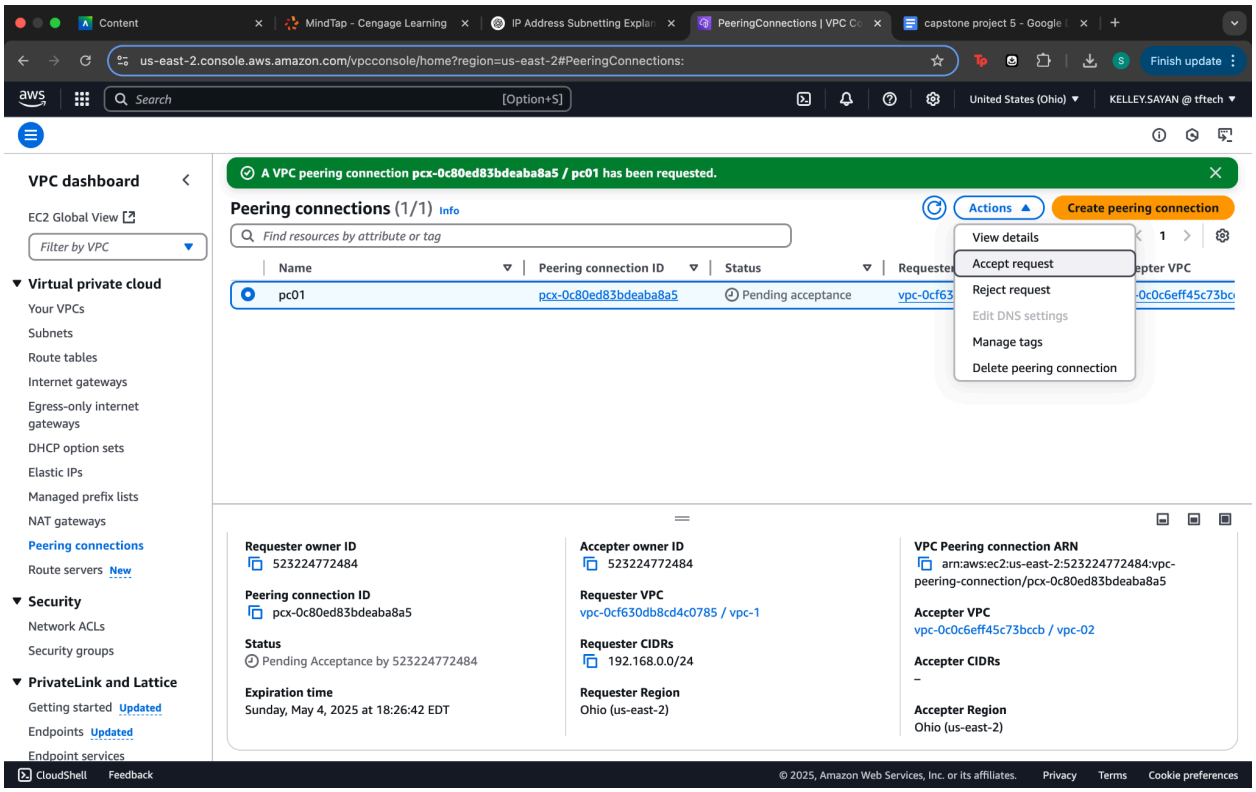
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us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#PeeringConnections:
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Search
[Option+S]
United States (Ohio)
KELLEY.SAYAN @ tftech
VPC dashboard
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Route tables
Internet gateways
Egress-only internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Route servers New
Security
Network ACLs
Security groups
PrivateLink and Lattice
Getting started Updated
Endpoints Updated
Endpoint services
A VPC peering connection pcx-0c80ed83bdeaba8a5 / pc01 has been requested.
Peering connections (1/1) Info
Actions
Create peering connection
Find resources by attribute or tag
1
View details
Accept request
Reject request
Edit DNS settings
Manage tags
Delete peering connection
Name
Peering connection ID
Status
pc01
pcx-0c80ed83bdeaba8a5
Pending acceptance
Requester owner ID
523224772484
Peering connection ID
pcx-0c80ed83bdeaba8a5
Status
Pending Acceptance by 523224772484
Expiration time
Sunday, May 4, 2025 at 18:26:42 EDT
Accepter owner ID
523224772484
Requester VPC
vpc-0cf630db8cd4c0785 / vpc-1
Requester CIDRs
192.168.0.0/24
Requester Region
Ohio (us-east-2)
VPC Peering connection ARN
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Accepter VPC
vpc-0c0c6eff45c73bccb / vpc-02
Accepter CIDRs
–
Accepter Region
Ohio (us-east-2)
CloudShell
Feedback
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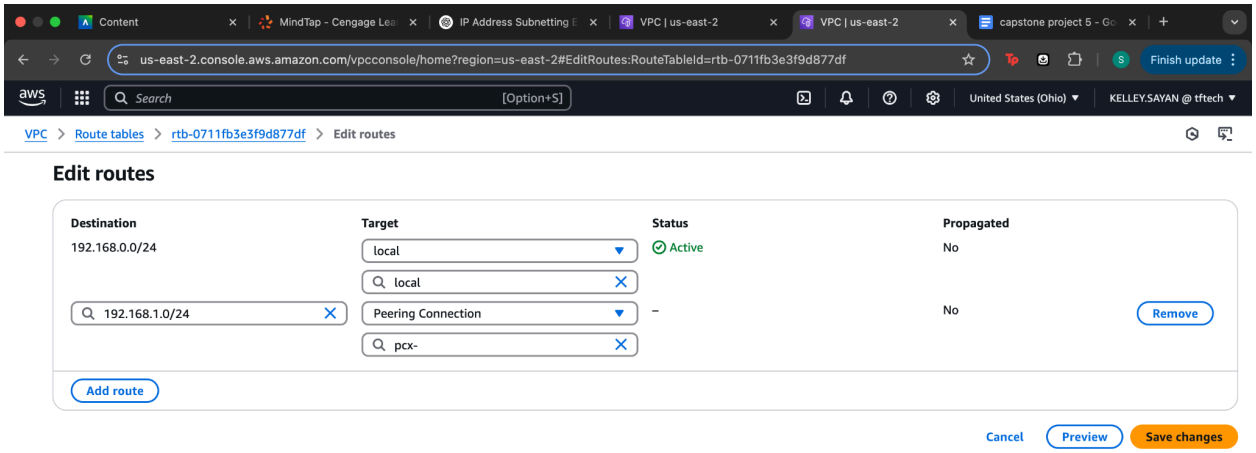
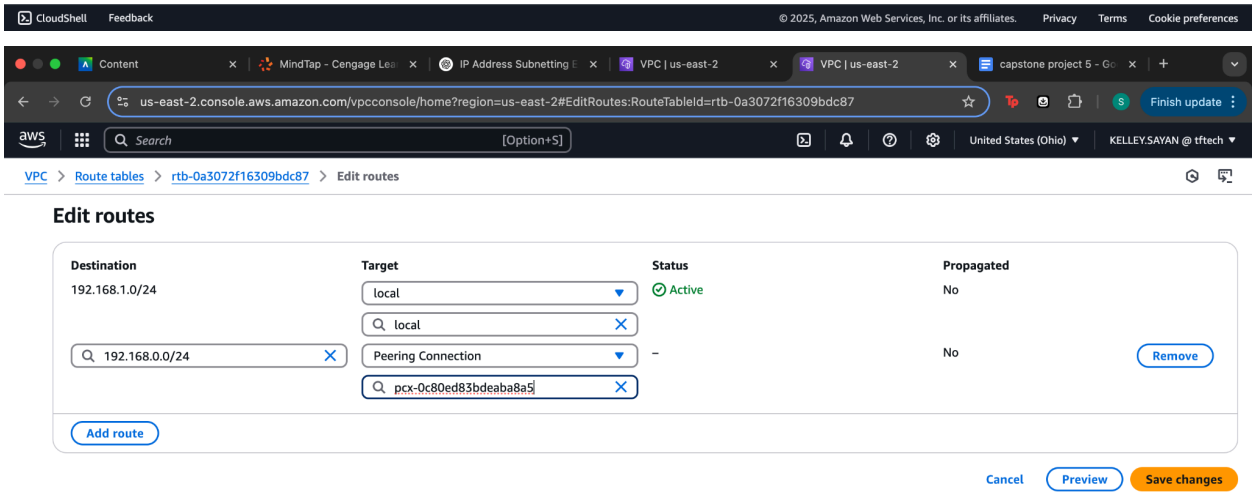
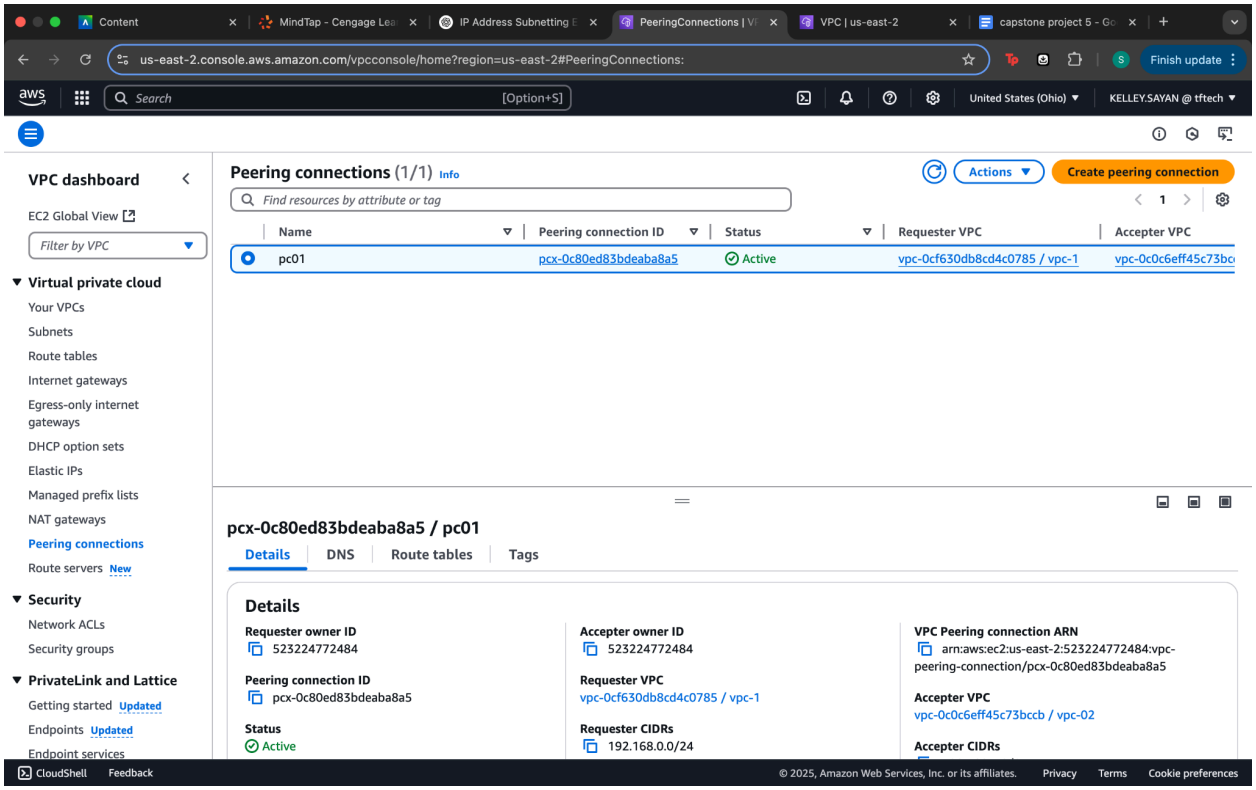
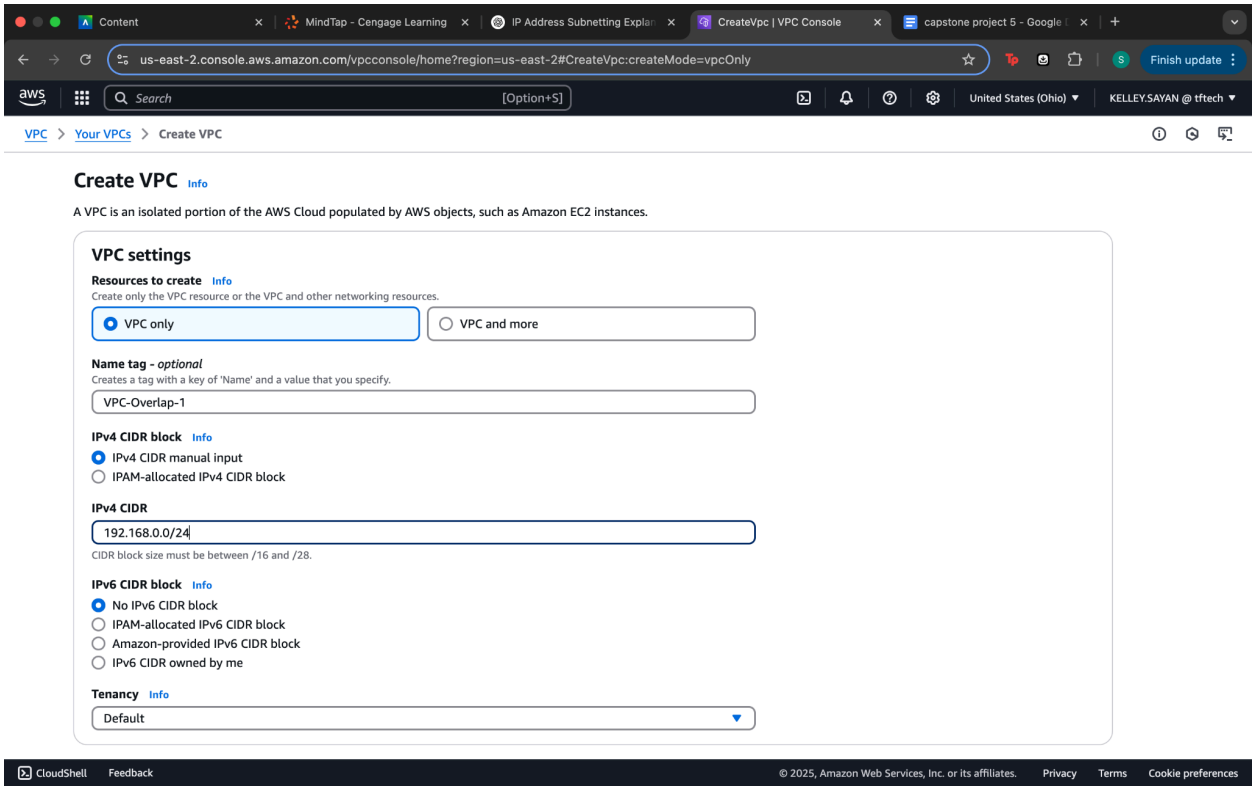


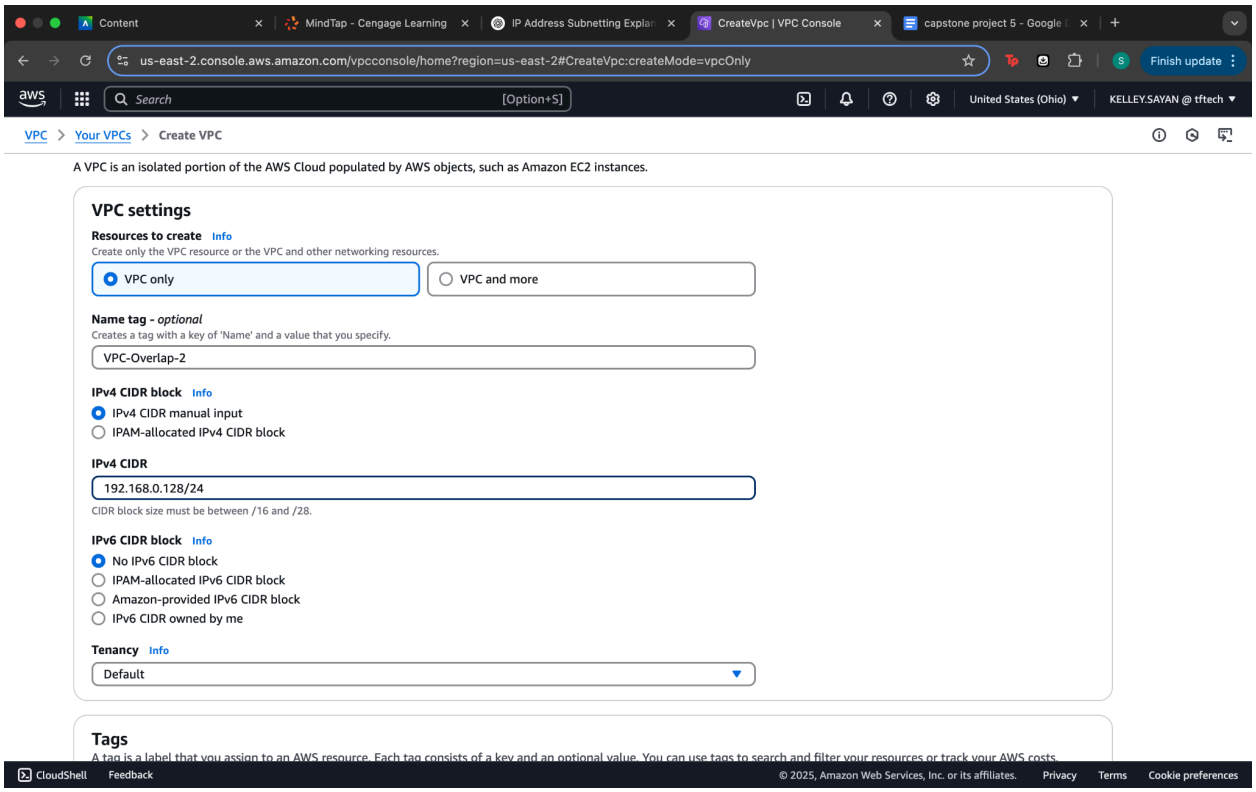


Show active peer connection



Step 4:
Create vpc's 1 and 2





When trying to set up the second vpc it says “must be valid ipv4”

1. Suppose you wanted to peer three virtual networks in a mesh network. List three /24 CIDR blocks that would work for this scenario.

Three non-overlapping CIDR blocks that would work:

- 192.168.10.0/24
- 192.168.20.0/24
- 192.168.30.0/24