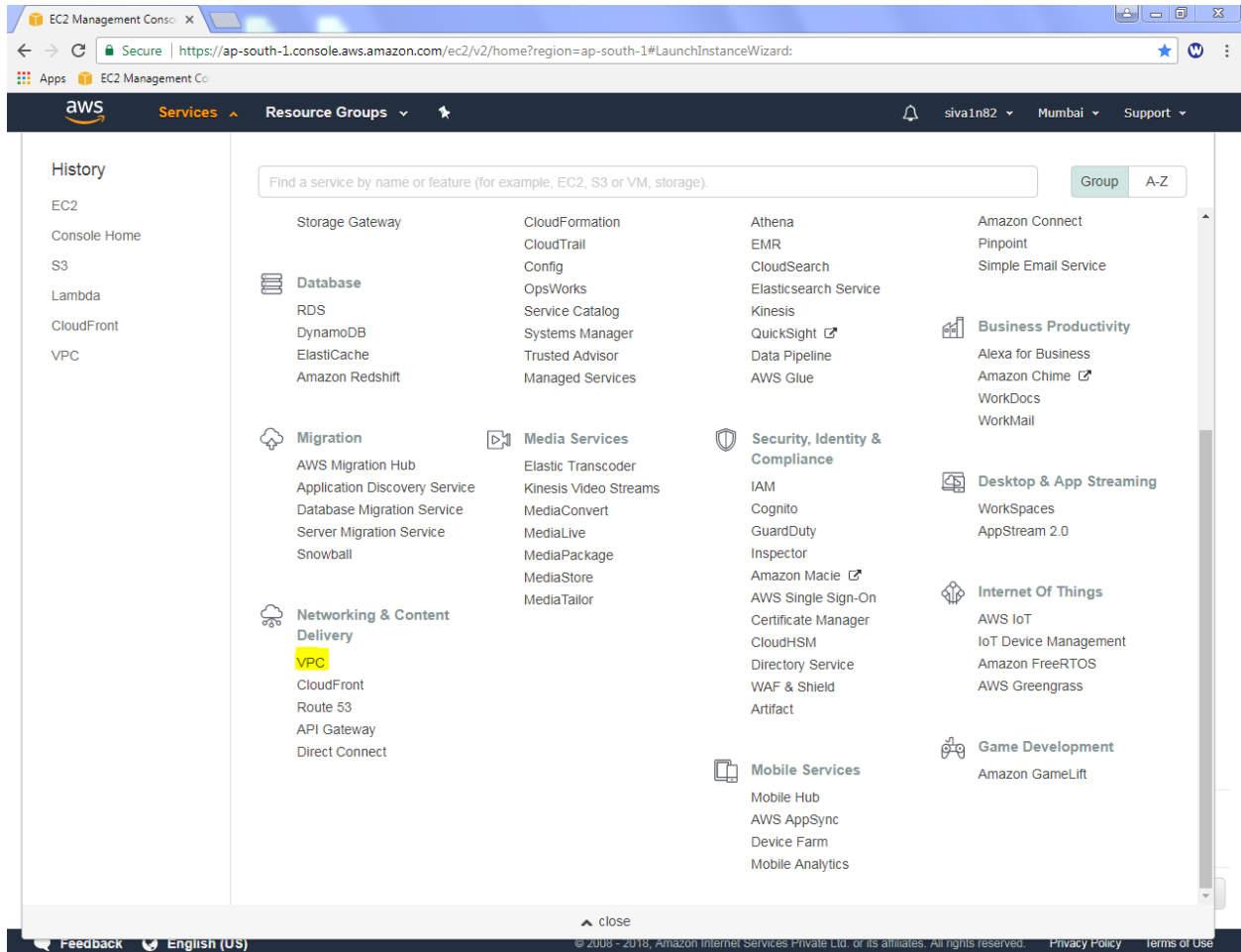


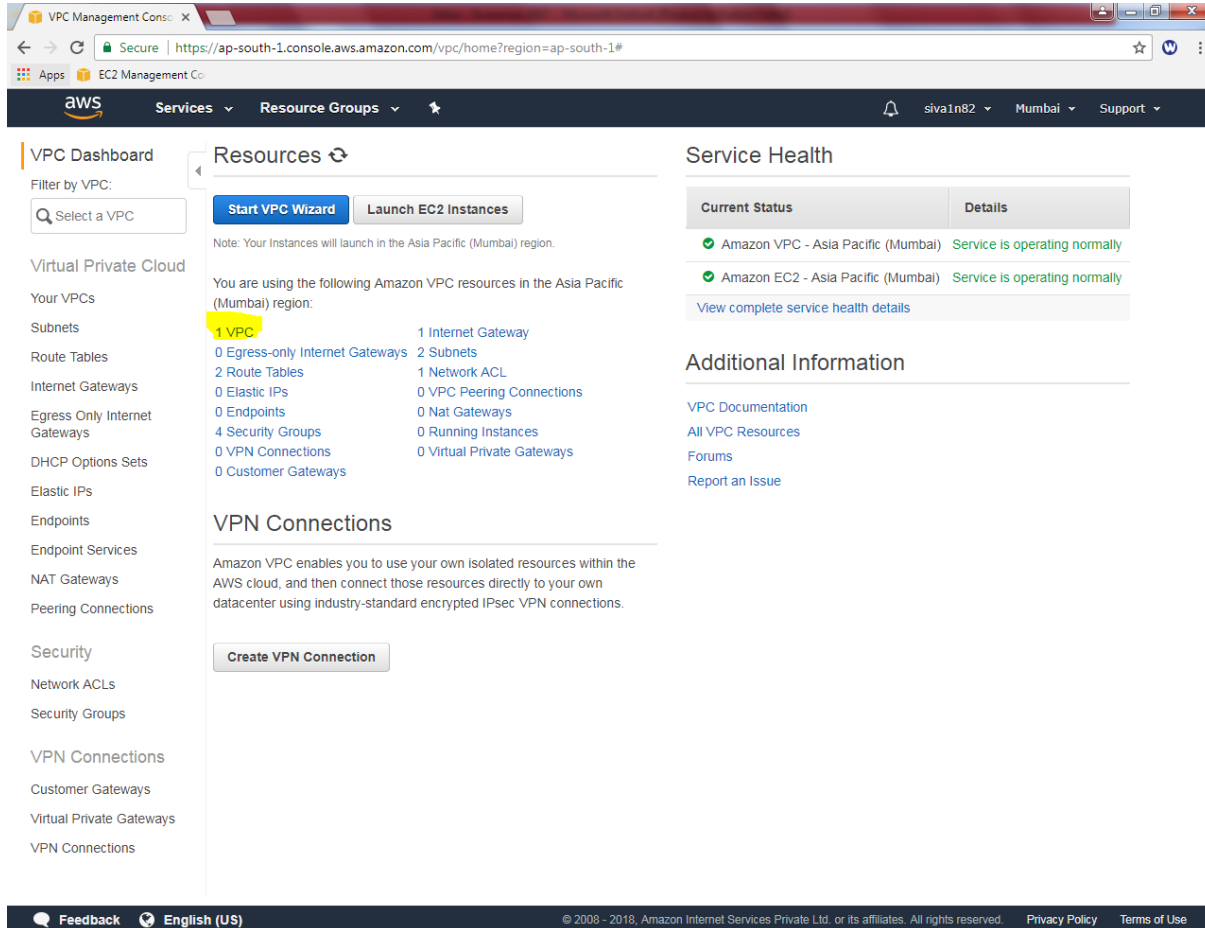
## Lab14

### Configure VPN between Mumbai and Ohio Region 1 of 4

While logged into AWS console we can able to see “VPC” in bottom of the page. Click “VPC”.



Click “1 VPC”.



The screenshot shows the AWS VPC Management Console interface. The left sidebar contains a navigation menu with categories like Virtual Private Cloud, Security, and VPN Connections. The main content area displays the 'Resources' section, which lists various AWS resources in the Asia Pacific (Mumbai) region. A yellow box highlights '1 VPC' in the list. The 'Service Health' section on the right shows that both Amazon VPC and Amazon EC2 services are operating normally. The bottom of the page includes a footer with feedback links, language settings, and copyright information.

**VPC Dashboard**

Filter by VPC:  
Select a VPC

**Resources**

Note: Your Instances will launch in the Asia Pacific (Mumbai) region.

You are using the following Amazon VPC resources in the Asia Pacific (Mumbai) region:

- 1 VPC
- 0 Egress-only Internet Gateways
- 2 Route Tables
- 0 Elastic IPs
- 4 Endpoints
- 4 Security Groups
- 0 VPN Connections
- 0 Customer Gateways
- 1 Internet Gateway
- 2 Subnets
- 1 Network ACL
- 0 VPC Peering Connections
- 0 Nat Gateways
- 0 Running Instances
- 0 Virtual Private Gateways

**Service Health**

Current Status	Details
✓ Amazon VPC - Asia Pacific (Mumbai)	Service is operating normally
✓ Amazon EC2 - Asia Pacific (Mumbai)	Service is operating normally

[View complete service health details](#)

**Additional Information**

- [VPC Documentation](#)
- [All VPC Resources](#)
- [Forums](#)
- [Report an Issue](#)

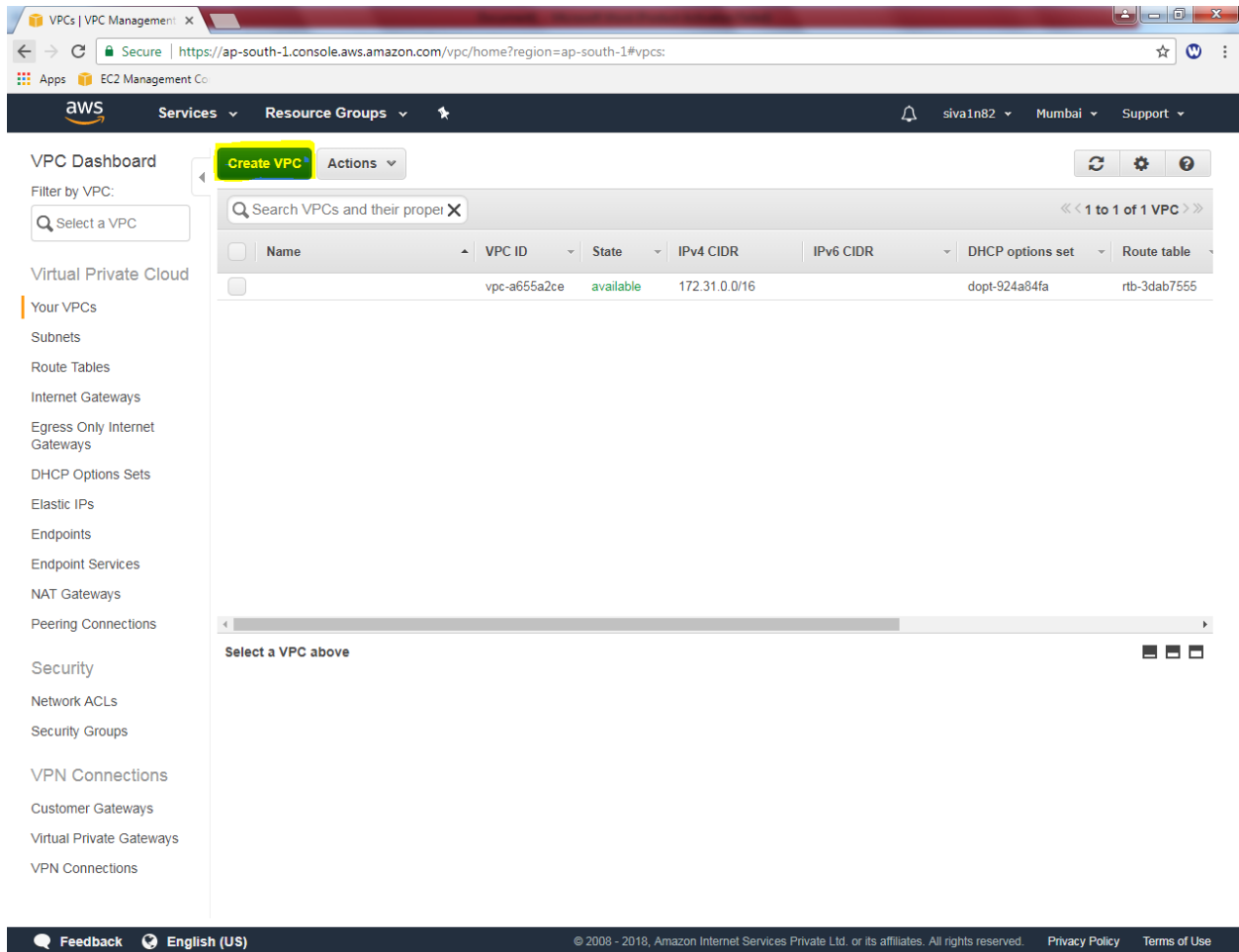
**VPN Connections**

Amazon VPC enables you to use your own isolated resources within the AWS cloud, and then connect those resources directly to your own datacenter using industry-standard encrypted IPsec VPN connections.

[Create VPN Connection](#)

Feedback English (US) © 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use

Click “Create VPC”.



The screenshot shows the AWS VPC Dashboard in a web browser. The browser's address bar displays the URL: `https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#vpcs:`. The AWS navigation bar at the top includes the 'aws' logo, 'Services', 'Resource Groups', and user information for 'siva1n82' in the 'Mumbai' region. On the left sidebar, the 'VPC Dashboard' is selected, and a list of VPC-related services is shown, including 'Your VPCs', 'Subnets', 'Route Tables', 'Internet Gateways', 'Egress Only Internet Gateways', 'DHCP Options Sets', 'Elastic IPs', 'Endpoints', 'Endpoint Services', 'NAT Gateways', 'Peering Connections', 'Security', 'Network ACLs', 'Security Groups', 'VPN Connections', 'Customer Gateways', 'Virtual Private Gateways', and 'VPN Connections'. The main content area features a 'Create VPC' button (highlighted with a yellow box) and an 'Actions' dropdown. Below this is a search bar and a table of existing VPCs. The table has columns for Name, VPC ID, State, IPv4 CIDR, IPv6 CIDR, DHCP options set, and Route table. One VPC is listed: 'vpc-a655a2ce' with state 'available' and IPv4 CIDR '172.31.0.0/16'. At the bottom of the dashboard, there is a 'Select a VPC above' section with three icons.

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP options set	Route table
	vpc-a655a2ce	available	172.31.0.0/16		dopt-924a84fa	rtb-3dab7555

While creating VPC, name tag as “Sansbound\_VPC\_Mumbai”, IPV4 CIDR Block as “10.0.0.0/16” subnet then click “Yes, Create”

Create VPC

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances. You must specify an IPv4 address range for your VPC. Specify the IPv4 address range as a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16. You cannot specify an IPv4 CIDR block larger than /16. You can optionally associate an Amazon-provided IPv6 CIDR block with the VPC.

Name tag

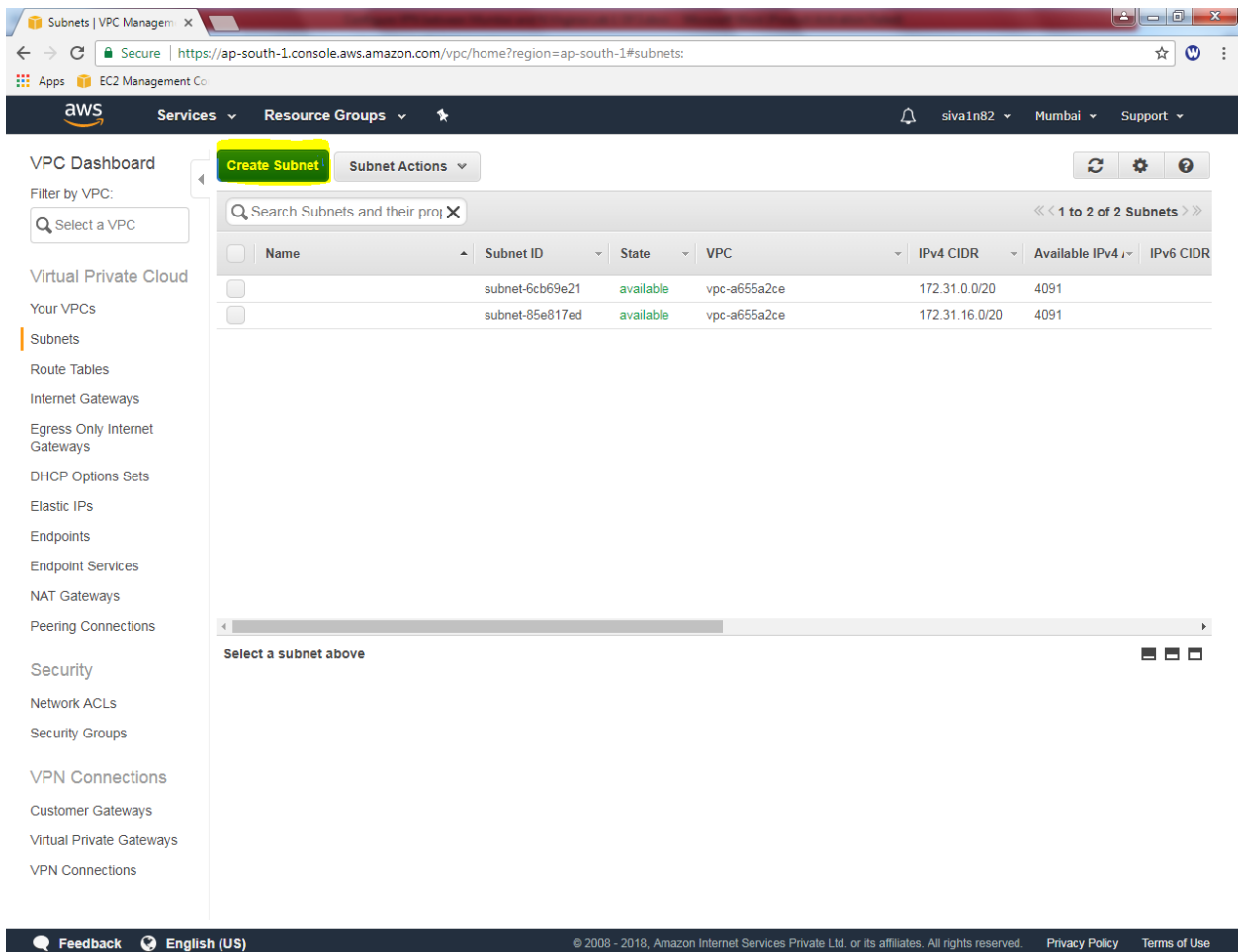
IPv4 CIDR block\*

IPv6 CIDR block\*
☒ No IPv6 CIDR Block
☐ Amazon provided IPv6 CIDR block

Tenancy

Cancel

Then click subnet, click “Create subnet”.



The screenshot shows the AWS Management Console interface. The left-hand navigation pane is expanded to the 'Subnets' section. The main content area displays the 'VPC Dashboard' for the 'ap-south-1' region. At the top of the dashboard, the 'Create Subnet' button is highlighted with a yellow box. Below this, there is a table listing existing subnets. The table has columns for Name, Subnet ID, State, VPC, IPv4 CIDR, Available IPv4, and IPv6 CIDR. Two subnets are listed: 'subnet-6cb69e21' and 'subnet-85e817ed', both in an 'available' state and associated with VPC 'vpc-a655a2ce'. The IPv4 CIDR for both is '172.31.0.0/20', and the Available IPv4 is '4091'. Below the table, there is a section titled 'Select a subnet above' with three small icons.

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CIDR
	subnet-6cb69e21	available	vpc-a655a2ce	172.31.0.0/20	4091	
	subnet-85e817ed	available	vpc-a655a2ce	172.31.16.0/20	4091	

While creating subnet name tag as “Sansbound\_Mumbai\_Public\_subnet”, select VPC as Sansbound\_VPC\_Mumbai , Availability Zone as “1b” (Optional) and IPV4 CIDR Block as 10.0.2.0/24 subnet then click “Yes, create”.

Create Subnet

Use the CIDR format to specify your subnet's IP address block (e.g., 10.0.0.0/24). Note that block sizes must be between a /16 netmask and /28 netmask. Also, note that a subnet can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

Name tag

Sansbound\_Mumbai\_Public\_subnet

VPC

vpc-09fe2261 | Sansbound\_VPC\_Mumbai

VPC CIDRs

CIDR	Status	Status Reason
10.0.0.0/16	associated	

Availability Zone

ap-south-1b

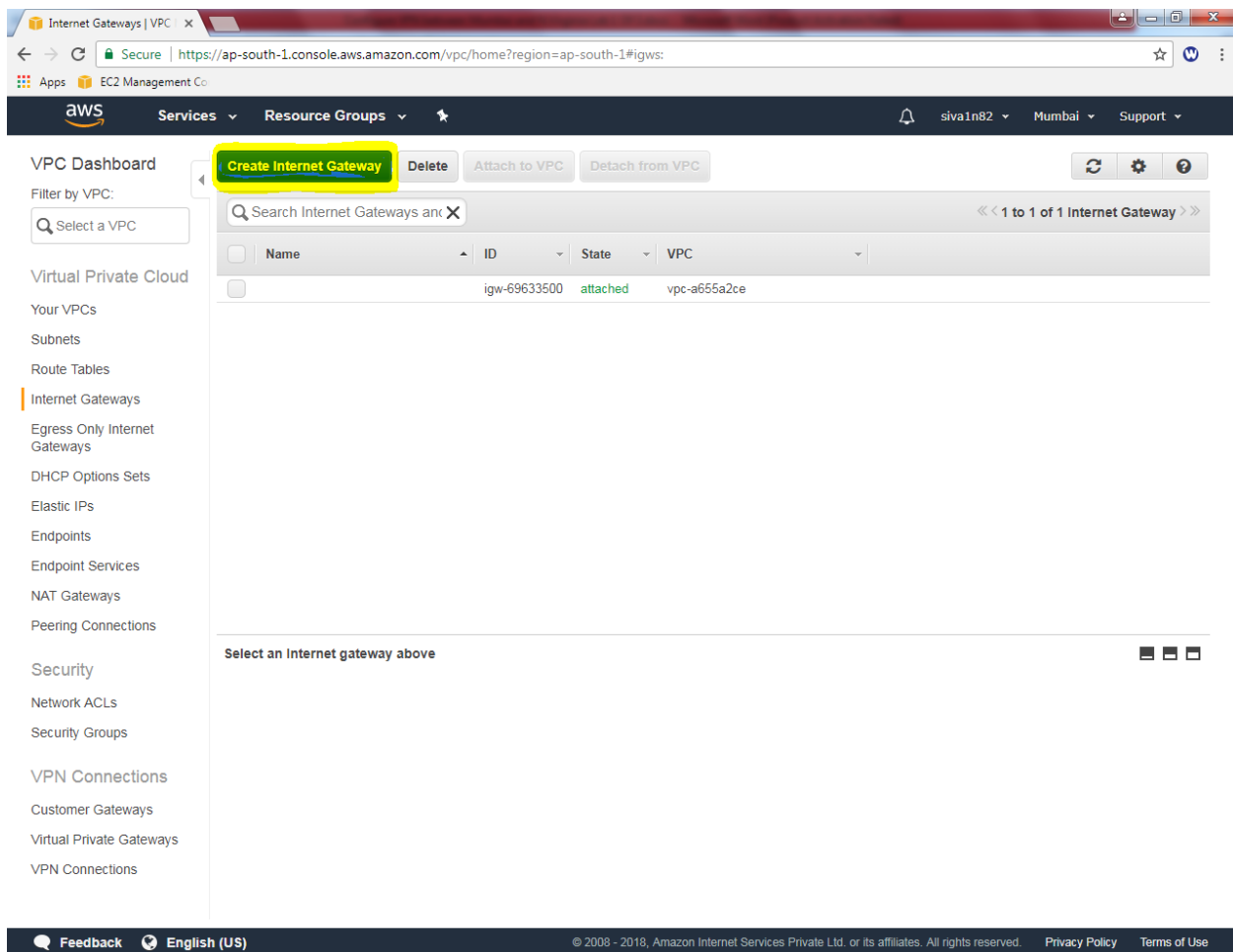
IPv4 CIDR block

10.0.2.0/24

Cancel

Yes, Create

Then we need to configure Internet gateway for the VPC. Click Internet gateway and click “Create Internet Gateway” for Mumbai VPC.



The screenshot displays the AWS Management Console interface for the 'Internet Gateways' page. The browser address bar shows the URL: <https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#igws:>. The console header includes the AWS logo, navigation tabs for 'Services' and 'Resource Groups', and user information for 'siva1n82' in the 'Mumbai' region. On the left sidebar, the 'Internet Gateways' option is selected under the 'Virtual Private Cloud' section. The main content area features a 'VPC Dashboard' with a 'Filter by VPC' dropdown and a search bar. A table lists the existing Internet Gateways:

<input type="checkbox"/>	Name	ID	State	VPC
<input type="checkbox"/>		igw-69633500	attached	vpc-a655a2ce

Below the table, a message states: 'Select an Internet gateway above'. The footer of the console includes a 'Feedback' link, 'English (US)' language selection, and copyright information: '© 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.' along with links to 'Privacy Policy' and 'Terms of Use'.

### Create Internet Gateway ✕

An Internet gateway is a virtual router that connects a VPC to the Internet.

Name tag  i

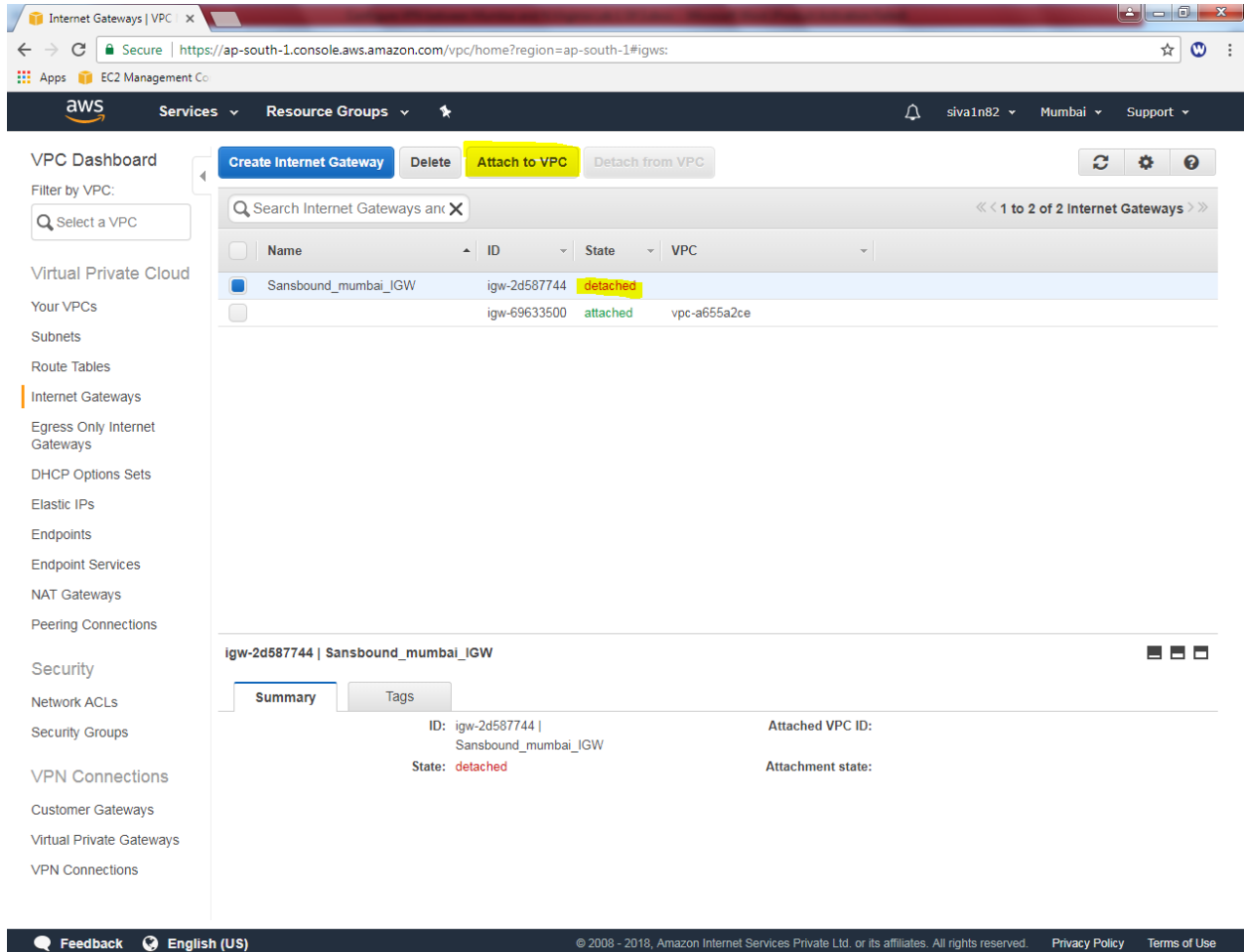
---

[Cancel](#) [Yes, Create](#)

Click "Yes create".

We can able to see that Sansbound\_mumbai\_IGW in detached mode. We need to attach to VPC.

Click “Attach to VPC”.



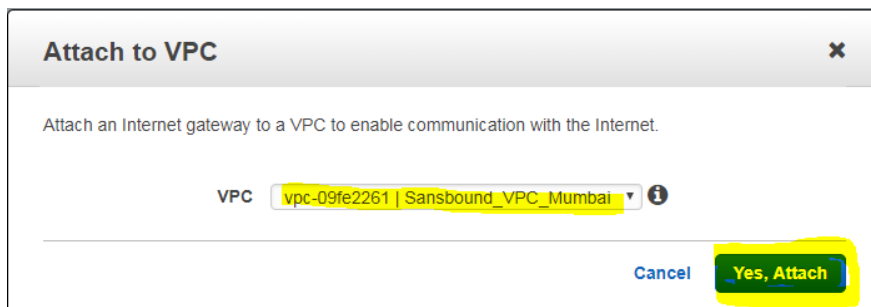
The screenshot shows the AWS Management Console interface for Internet Gateways. The left sidebar contains navigation links for VPC Dashboard, Virtual Private Cloud, and various network services. The main content area displays a table of Internet Gateways. The first gateway, 'Sansbound\_mumbai\_IGW' (ID: igw-2d587744), is highlighted in blue and has a state of 'detached'. The 'Attach to VPC' button is highlighted in yellow. Below the table, the details for 'igw-2d587744 | Sansbound\_mumbai\_IGW' are shown, including its ID, name, and state (detached). The 'Attached VPC ID' is also displayed.

Name	ID	State	VPC
Sansbound_mumbai_IGW	igw-2d587744	detached	
	igw-69633500	attached	vpc-a655a2ce

igw-2d587744 | Sansbound\_mumbai\_IGW

Summary Tags

ID: igw-2d587744 | Sansbound\_mumbai\_IGW  
State: detached  
Attached VPC ID:  
Attachment state:

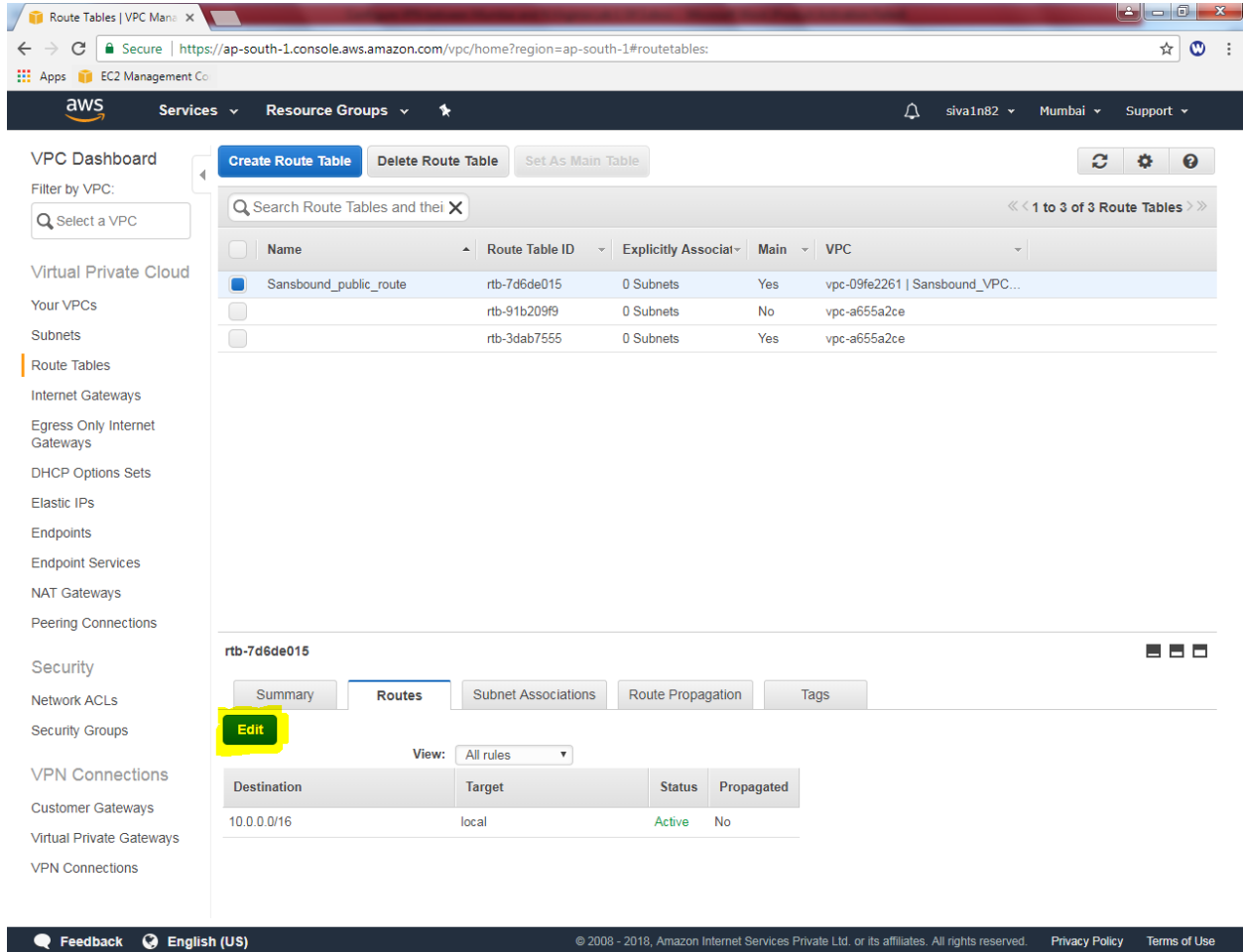


The screenshot shows the 'Attach to VPC' dialog box. The title is 'Attach to VPC'. The text inside says 'Attach an Internet gateway to a VPC to enable communication with the Internet.' Below this, there is a 'VPC' dropdown menu with the selected value 'vpc-09fe2261 | Sansbound\_VPC\_Mumbai'. At the bottom right, there are two buttons: 'Cancel' and 'Yes, Attach'. The 'Yes, Attach' button is highlighted in yellow.

Click “Yes, Attach”.



Rename the Mumbai route table as “Sansbound\_public\_route”. Then click “route” tab,  
Click “Edit”.



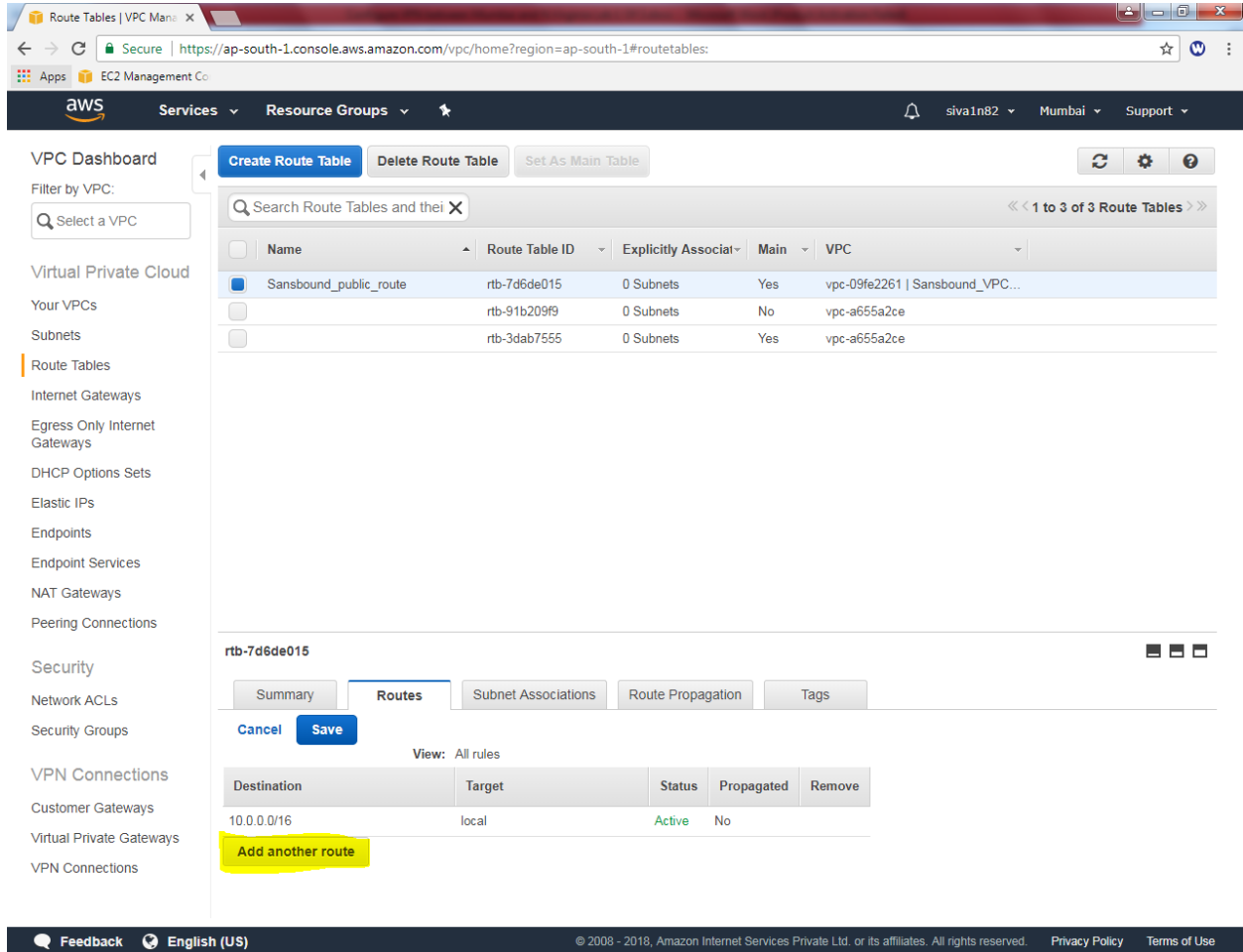
The screenshot shows the AWS VPC console interface. The left sidebar contains navigation links for VPC Dashboard, Virtual Private Cloud, Security, and VPN Connections. The main content area displays a list of route tables. The first route table, 'Sansbound\_public\_route' (ID: rtb-7d6de015), is selected. Below the list, the 'Routes' tab is active, showing a single route with destination 10.0.0.0/16 and target 'local'. The 'Edit' button is highlighted in yellow.

Name	Route Table ID	Explicitly Associat	Main	VPC
Sansbound_public_route	rtb-7d6de015	0 Subnets	Yes	vpc-09fe2261   Sansbound_VPC...
	rtb-91b209f9	0 Subnets	No	vpc-a655a2ce
	rtb-3dab7555	0 Subnets	Yes	vpc-a655a2ce

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No

Click “Add another route”.



The screenshot shows the AWS Management Console interface for Route Tables. The left sidebar contains navigation links for VPC Dashboard, Virtual Private Cloud, and various network services. The main content area displays a list of route tables. The 'Sansbound\_public\_route' is selected, and the 'Routes' tab is active. A yellow box highlights the 'Add another route' button at the bottom of the route list.

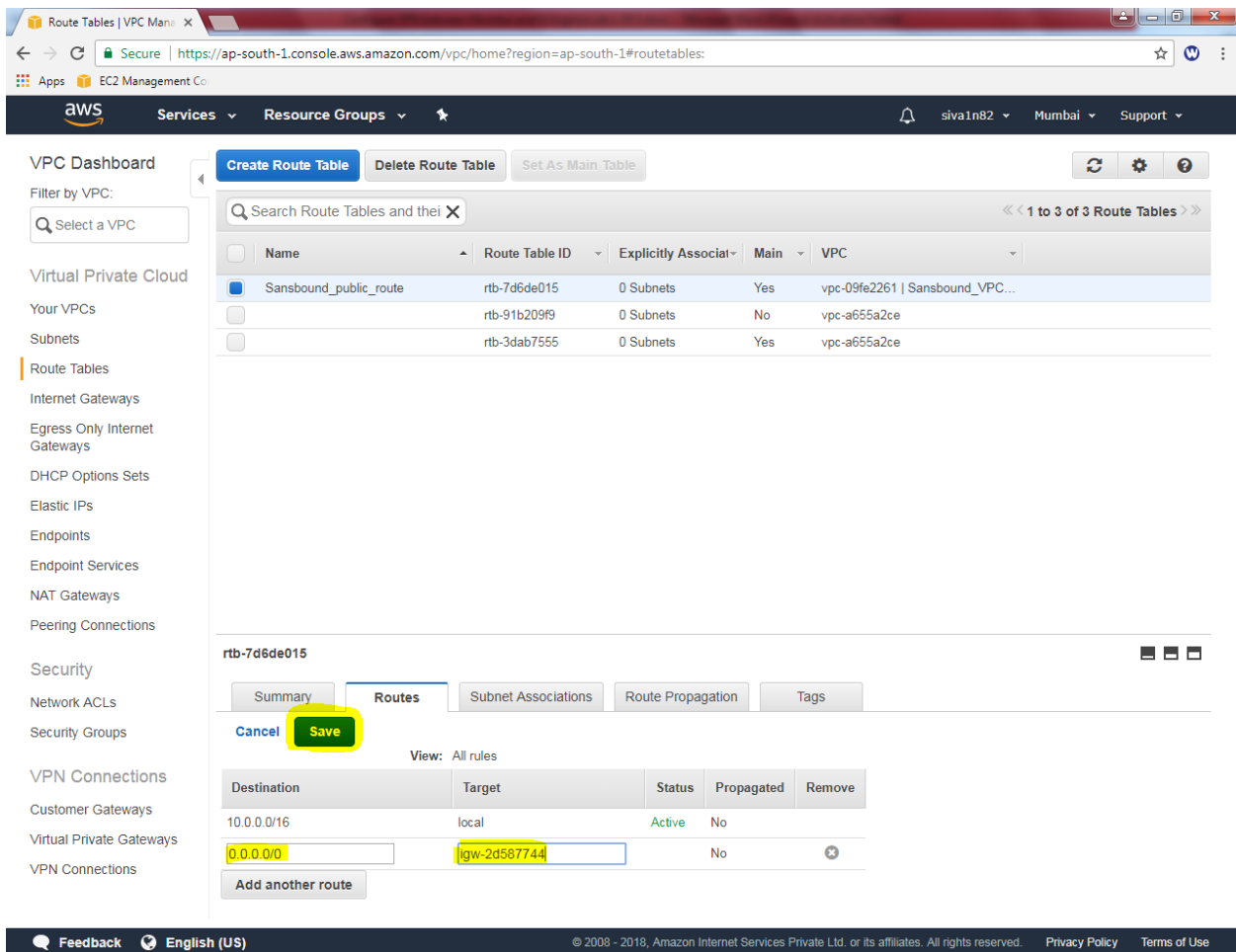
Name	Route Table ID	Explicitly Associated	Main	VPC
Sansbound_public_route	rtb-7d6de015	0 Subnets	Yes	vpc-09fe2261   Sansbound_VPC...
	rtb-91b209f9	0 Subnets	No	vpc-a655a2ce
	rtb-3dab7555	0 Subnets	Yes	vpc-a655a2ce

Destination	Target	Status	Propagated	Remove
10.0.0.0/16	local	Active	No	

**Add another route**

Add default route 0.0.0.0/0 and select "igw-\*" as target. Click "save".



The screenshot shows the AWS Management Console interface for the 'Route Tables' section. The left sidebar contains navigation links for VPC Dashboard, Virtual Private Cloud, Security, VPN Connections, and more. The main content area displays a list of route tables. The 'Sansbound\_public\_route' table is selected, and the 'Routes' tab is active. A new route is being added with the destination '0.0.0.0/0' and the target 'igw-2d587744'. The 'Save' button is highlighted in yellow.

**Route Tables List:**

Name	Route Table ID	Explicitly Associat	Main	VPC
<input checked="" type="checkbox"/> Sansbound_public_route	rtb-7d6de015	0 Subnets	Yes	vpc-09fe2261   Sansbound_VPC...
<input type="checkbox"/>	rtb-91b209f9	0 Subnets	No	vpc-a655a2ce
<input type="checkbox"/>	rtb-3dab7555	0 Subnets	Yes	vpc-a655a2ce

**Route Details for rtb-7d6de015:**

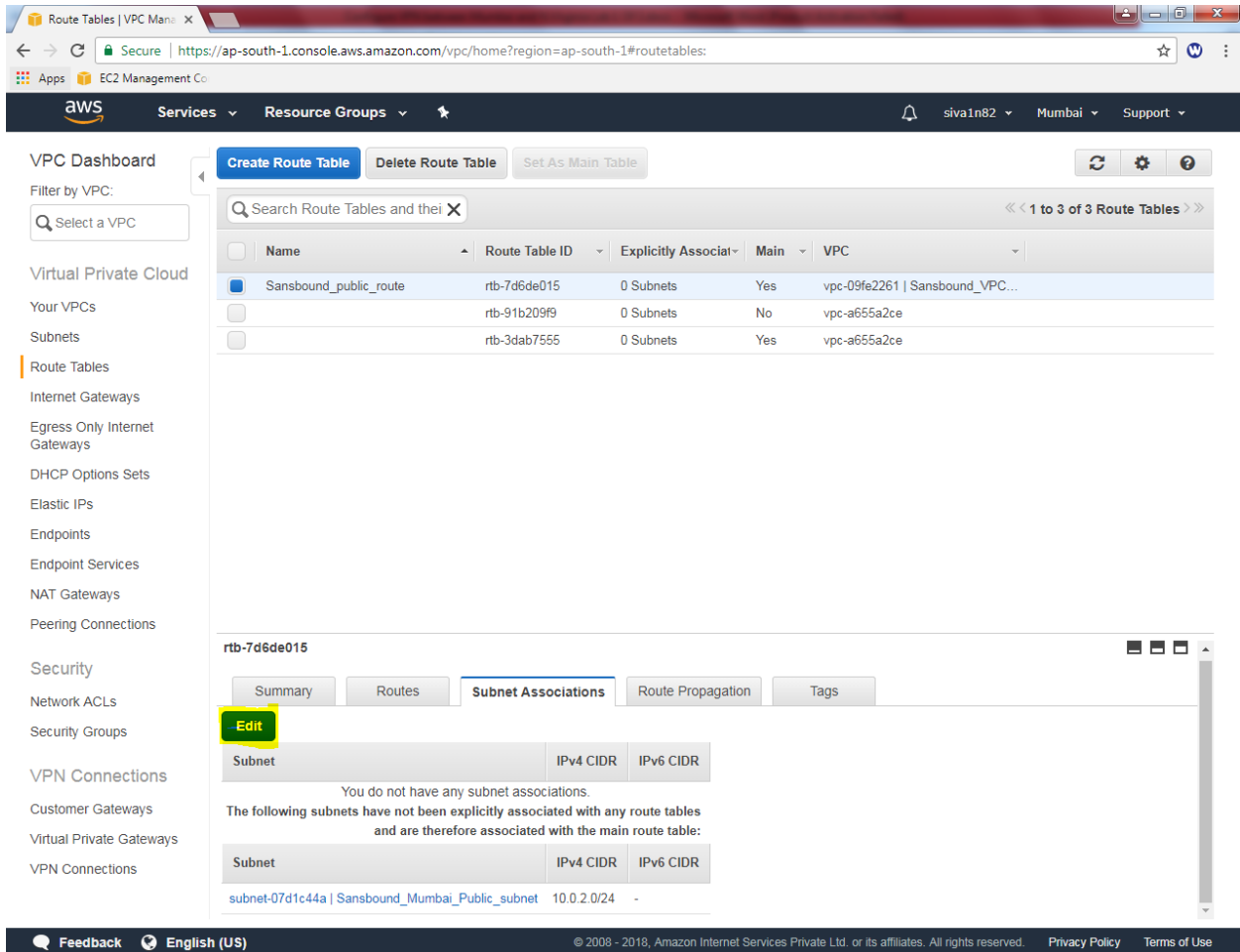
Summary | **Routes** | Subnet Associations | Route Propagation | Tags

Cancel | **Save**

View: All rules

Destination	Target	Status	Propagated	Remove
10.0.0.0/16	local	Active	No	
<input type="text" value="0.0.0.0/0"/>	<input type="text" value="igw-2d587744"/>	No		

Click “Subnet associations” tab click “Edit”.



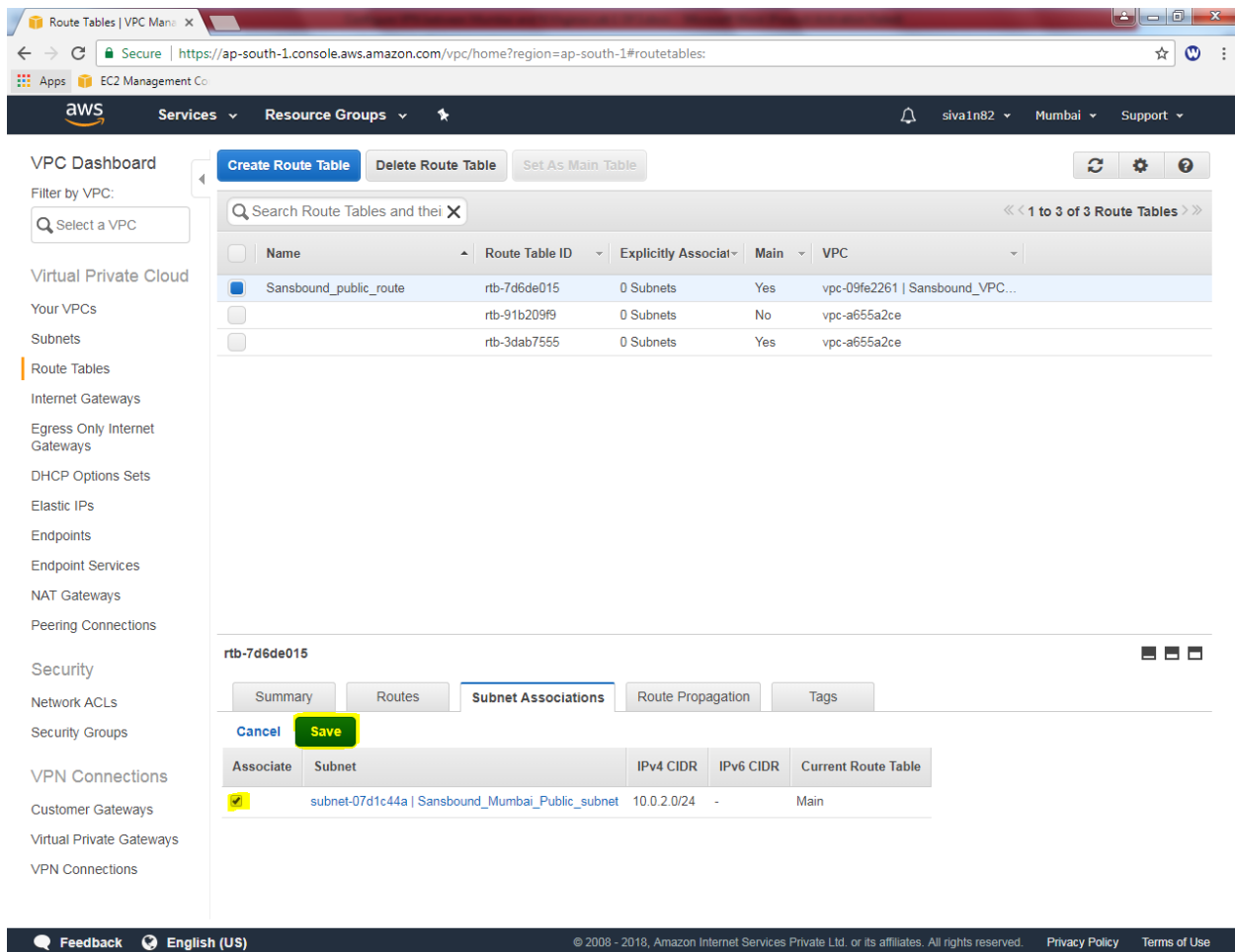
The screenshot shows the AWS Management Console interface for Route Tables. The left sidebar contains navigation links for VPC Dashboard, Virtual Private Cloud, and various network services. The main content area displays a list of route tables. The selected route table, `rtb-7d6de015`, is shown in detail with the 'Subnet Associations' tab active. The 'Edit' button is highlighted in yellow.

Name	Route Table ID	Explicitly Associat	Main	VPC
<input checked="" type="checkbox"/> Sansbound_public_route	rtb-7d6de015	0 Subnets	Yes	vpc-09fe2261   Sansbound_VPC...
<input type="checkbox"/>	rtb-91b209f9	0 Subnets	No	vpc-a655a2ce
<input type="checkbox"/>	rtb-3dab7555	0 Subnets	Yes	vpc-a655a2ce

Subnet	IPv4 CIDR	IPv6 CIDR
You do not have any subnet associations.		
The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:		
Subnet	IPv4 CIDR	IPv6 CIDR
subnet-07d1c44a   Sansbound_Mumbai_Public_subnet	10.0.2.0/24	-

Click check box “Sansbound\_Mumbai\_public\_subnet” and click “save”.



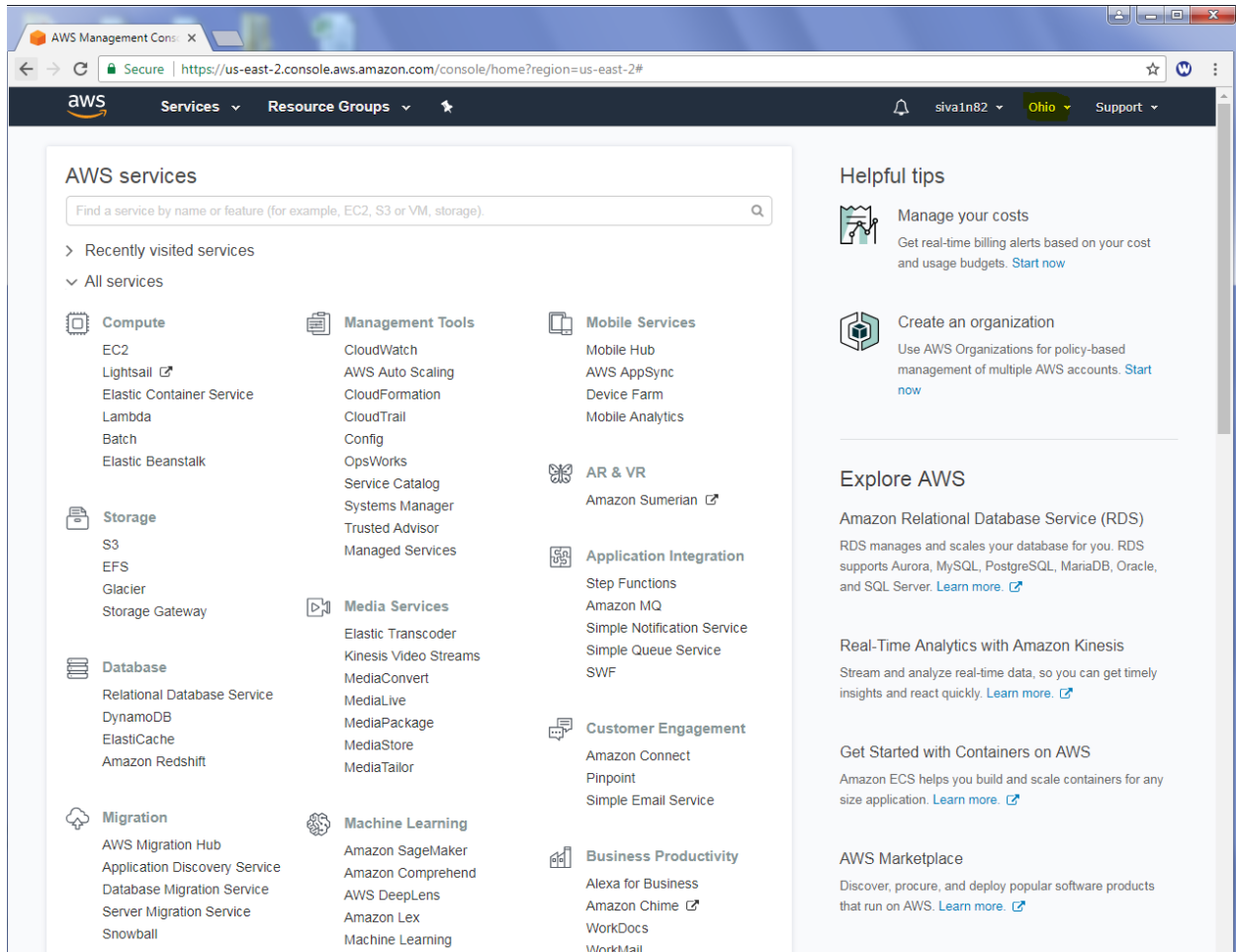
The screenshot shows the AWS Management Console interface for the VPC Dashboard. The left sidebar lists various VPC services, with 'Route Tables' highlighted. The main content area shows a list of route tables. The 'Sansbound\_public\_route' (rtb-7d6de015) is selected, and its 'Subnet Associations' tab is active. Below the tab, a table shows the association with 'subnet-07d1c44a | Sansbound\_Mumbai\_Public\_subnet'.

Name	Route Table ID	Explicitly Associat	Main	VPC
<input checked="" type="checkbox"/> Sansbound_public_route	rtb-7d6de015	0 Subnets	Yes	vpc-09fe2261   Sansbound_VPC...
<input type="checkbox"/>	rtb-91b209f9	0 Subnets	No	vpc-a655a2ce
<input type="checkbox"/>	rtb-3dab7555	0 Subnets	Yes	vpc-a655a2ce

Associate	Subnet	IPv4 CIDR	IPv6 CIDR	Current Route Table
<input checked="" type="checkbox"/>	subnet-07d1c44a   Sansbound_Mumbai_Public_subnet	10.0.2.0/24	-	Main

Go to Ohio Region,



The screenshot shows the AWS Management Console interface. The browser address bar indicates the URL `https://us-east-2.console.aws.amazon.com/console/home?region=us-east-2#`. The top navigation bar shows the user is logged in as `siva1n82` in the **Ohio** region. The main content area displays a grid of AWS services categorized by icon and name. The categories include Compute, Storage, Database, Migration, Management Tools, Media Services, Machine Learning, Mobile Services, AR & VR, Application Integration, Customer Engagement, and Business Productivity. On the right side, there are sections for 'Helpful tips' (Manage your costs, Create an organization) and 'Explore AWS' (Amazon Relational Database Service (RDS), Real-Time Analytics with Amazon Kinesis, Get Started with Containers on AWS, AWS Marketplace).

**AWS services**

Find a service by name or feature (for example, EC2, S3 or VM, storage).

> Recently visited services

▼ All services

- Compute**
  - EC2
  - Lightsail
  - Elastic Container Service
  - Lambda
  - Batch
  - Elastic Beanstalk
- Storage**
  - S3
  - EFS
  - Glacier
  - Storage Gateway
- Database**
  - Relational Database Service
  - DynamoDB
  - ElastiCache
  - Amazon Redshift
- Migration**
  - AWS Migration Hub
  - Application Discovery Service
  - Database Migration Service
  - Server Migration Service
  - Snowball
- Management Tools**
  - CloudWatch
  - AWS Auto Scaling
  - CloudFormation
  - CloudTrail
  - Config
  - OpsWorks
  - Service Catalog
  - Systems Manager
  - Trusted Advisor
  - Managed Services
- Media Services**
  - Elastic Transcoder
  - Kinesis Video Streams
  - MediaConvert
  - MediaLive
  - MediaPackage
  - MediaStore
  - MediaTailor
- Machine Learning**
  - Amazon SageMaker
  - Amazon Comprehend
  - AWS DeepLens
  - Amazon Lex
  - Machine Learning
- Mobile Services**
  - Mobile Hub
  - AWS AppSync
  - Device Farm
  - Mobile Analytics
- AR & VR**
  - Amazon Sumerian
- Application Integration**
  - Step Functions
  - Amazon MQ
  - Simple Notification Service
  - Simple Queue Service
  - SWF
- Customer Engagement**
  - Amazon Connect
  - Pinpoint
  - Simple Email Service
- Business Productivity**
  - Alexa for Business
  - Amazon Chime
  - WorkDocs
  - WorkMail

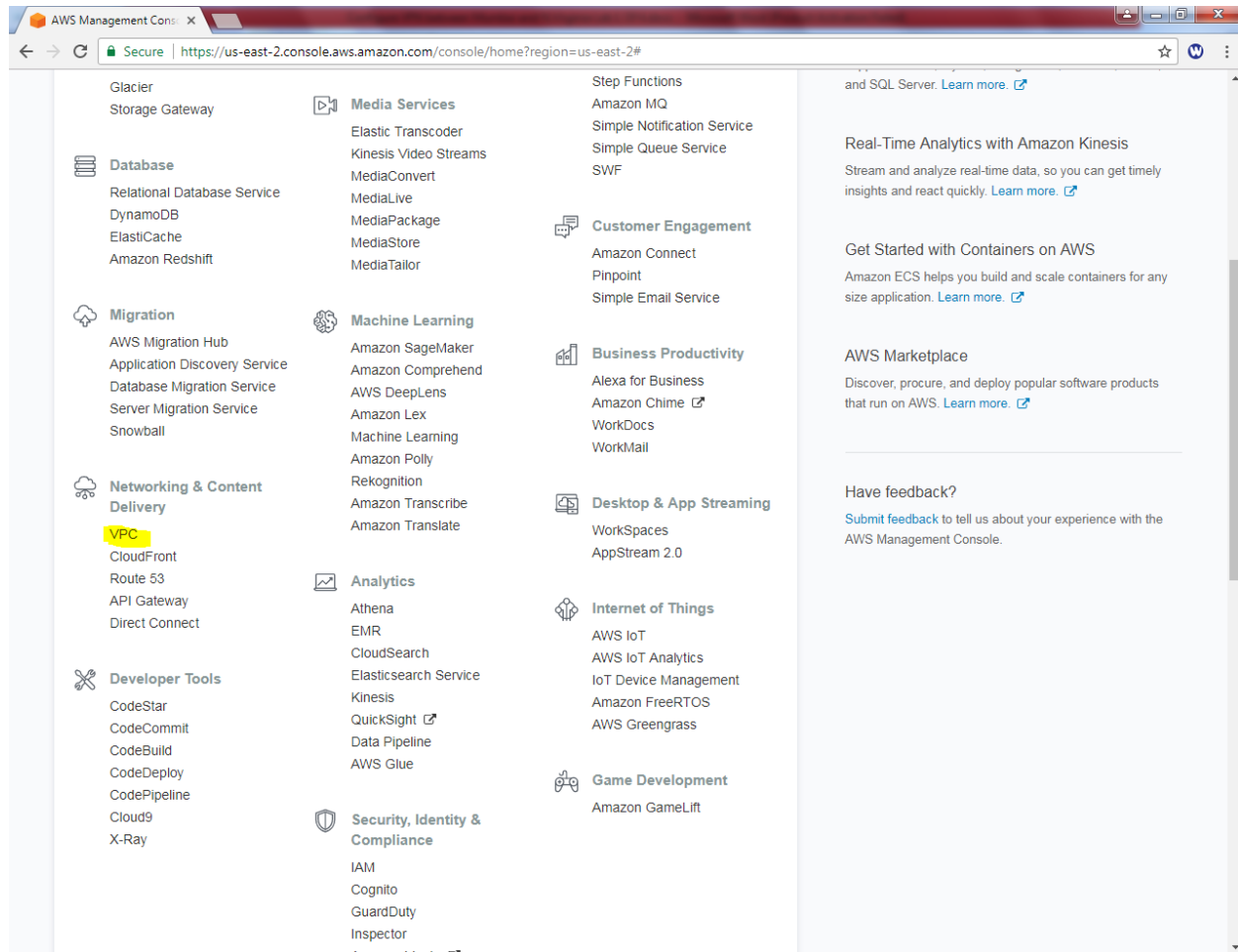
**Helpful tips**

- Manage your costs**  
Get real-time billing alerts based on your cost and usage budgets. [Start now](#)
- Create an organization**  
Use AWS Organizations for policy-based management of multiple AWS accounts. [Start now](#)

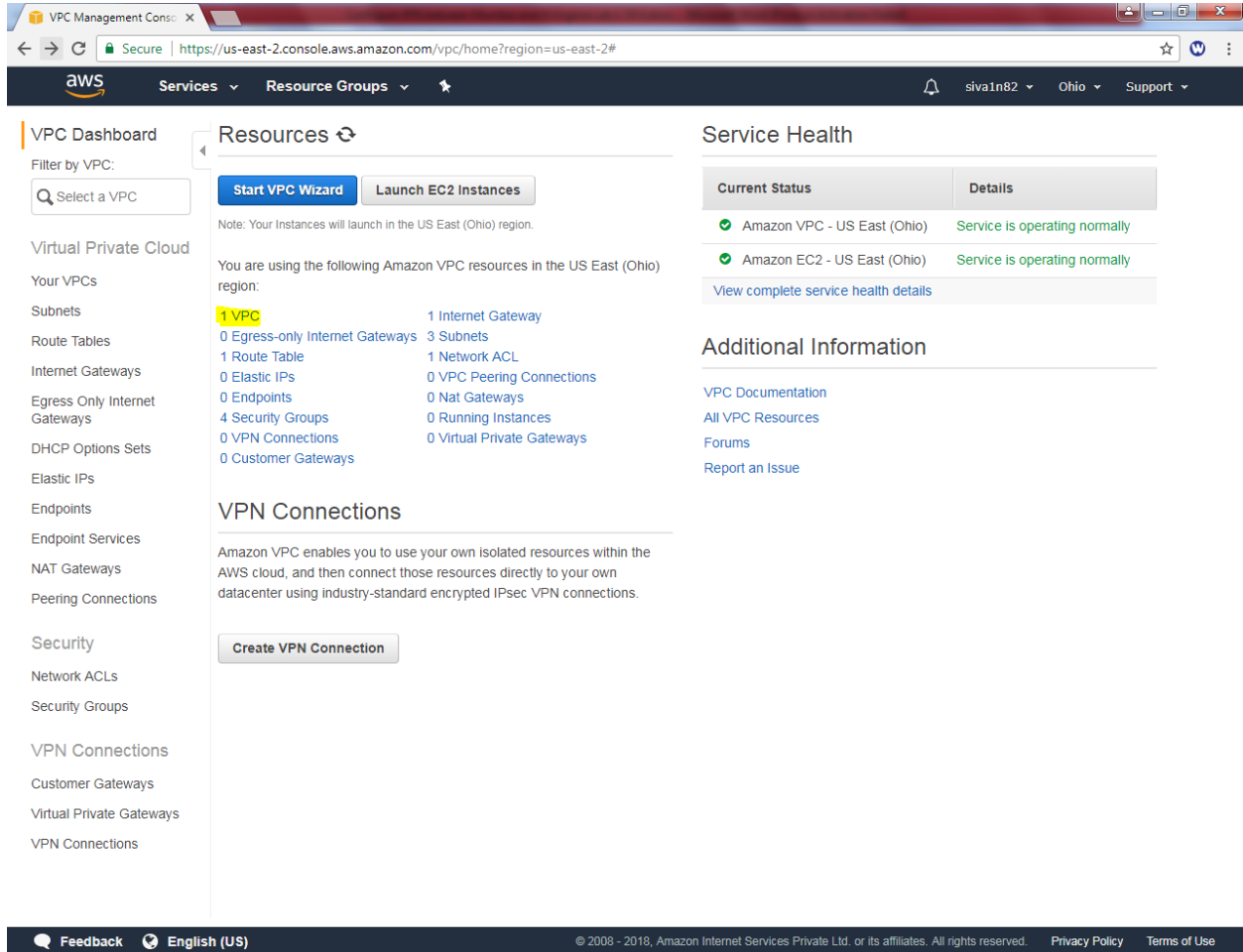
**Explore AWS**

- Amazon Relational Database Service (RDS)**  
RDS manages and scales your database for you. RDS supports Aurora, MySQL, PostgreSQL, MariaDB, Oracle, and SQL Server. [Learn more](#)
- Real-Time Analytics with Amazon Kinesis**  
Stream and analyze real-time data, so you can get timely insights and react quickly. [Learn more](#)
- Get Started with Containers on AWS**  
Amazon ECS helps you build and scale containers for any size application. [Learn more](#)
- AWS Marketplace**  
Discover, procure, and deploy popular software products that run on AWS. [Learn more](#)

Click “VPC”.



Click “1 VPC”.



The screenshot shows the AWS VPC Management Console interface. The left sidebar contains a navigation menu with categories like Virtual Private Cloud, Security, and VPN Connections. The main content area is titled 'Resources' and displays a list of VPC resources in the US East (Ohio) region. The '1 VPC' resource is highlighted in yellow. Below the list, there is a section for 'VPN Connections' with a 'Create VPN Connection' button. The right sidebar shows 'Service Health' for Amazon VPC and Amazon EC2, both indicating 'Service is operating normally'. At the bottom, there is a footer with 'Feedback', 'English (US)', and copyright information.

**VPC Dashboard**  
Filter by VPC:  
Select a VPC

**Virtual Private Cloud**  
Your VPCs  
Subnets  
Route Tables  
Internet Gateways  
Egress Only Internet Gateways  
DHCP Options Sets  
Elastic IPs  
Endpoints  
Endpoint Services  
NAT Gateways  
Peering Connections

**Resources**  
Start VPC Wizard Launch EC2 Instances  
Note: Your Instances will launch in the US East (Ohio) region.  
You are using the following Amazon VPC resources in the US East (Ohio) region:  
1 VPC  
0 Egress-only Internet Gateways  
1 Route Table  
0 Elastic IPs  
0 Endpoints  
4 Security Groups  
0 VPN Connections  
0 Customer Gateways  
1 Internet Gateway  
3 Subnets  
1 Network ACL  
0 VPC Peering Connections  
0 Nat Gateways  
0 Running Instances  
0 Virtual Private Gateways

**Service Health**  
Current Status Details  
Amazon VPC - US East (Ohio) Service is operating normally  
Amazon EC2 - US East (Ohio) Service is operating normally  
View complete service health details

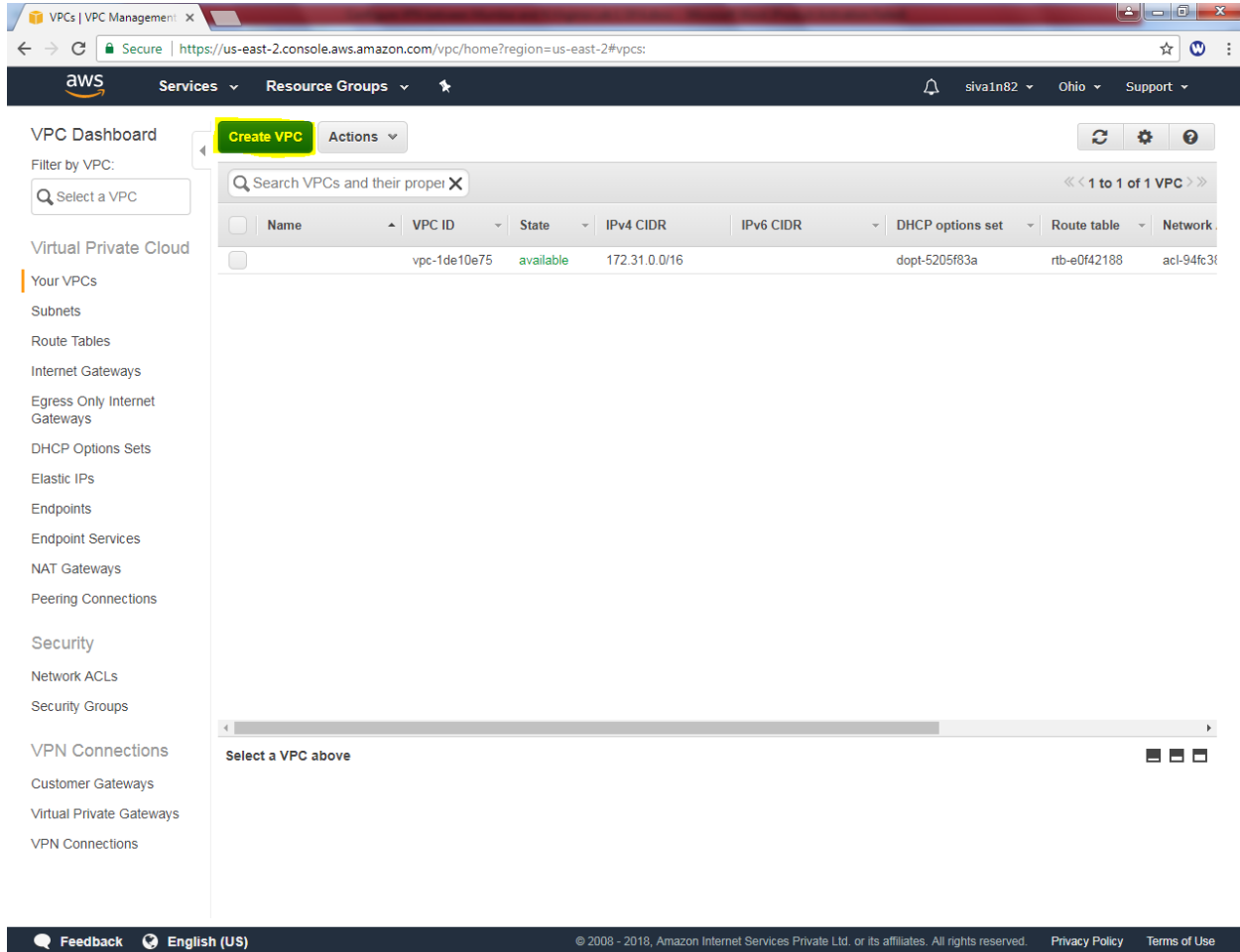
**Additional Information**  
VPC Documentation  
All VPC Resources  
Forums  
Report an Issue

**VPN Connections**  
Amazon VPC enables you to use your own isolated resources within the AWS cloud, and then connect those resources directly to your own datacenter using industry-standard encrypted IPsec VPN connections.  
Create VPN Connection

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Click “Create VPC”.



The screenshot shows the AWS VPC Dashboard in the us-east-2 region. The 'Create VPC' button is highlighted in green. The dashboard displays a table with one VPC listed: vpc-1de10e75, which is in the 'available' state. The table columns include Name, VPC ID, State, IPv4 CIDR, IPv6 CIDR, DHCP options set, Route table, and Network ACL. The left sidebar contains a navigation menu with various VPC-related resources.

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP options set	Route table	Network ACL
	vpc-1de10e75	available	172.31.0.0/16		dopt-5205f83a	rtb-e0f42188	acl-94fc3f

In Name tag, "Sansbound\_Ohio\_VPC", IPV4 CIDR Block as 192.168.0.0/16 subnet

### Create VPC ✕

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances. You must specify an IPv4 address range for your VPC. Specify the IPv4 address range as a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16. You cannot specify an IPv4 CIDR block larger than /16. You can optionally associate an Amazon-provided IPv6 CIDR block with the VPC.

**Name tag**  ⓘ

**IPv4 CIDR block\***  ⓘ

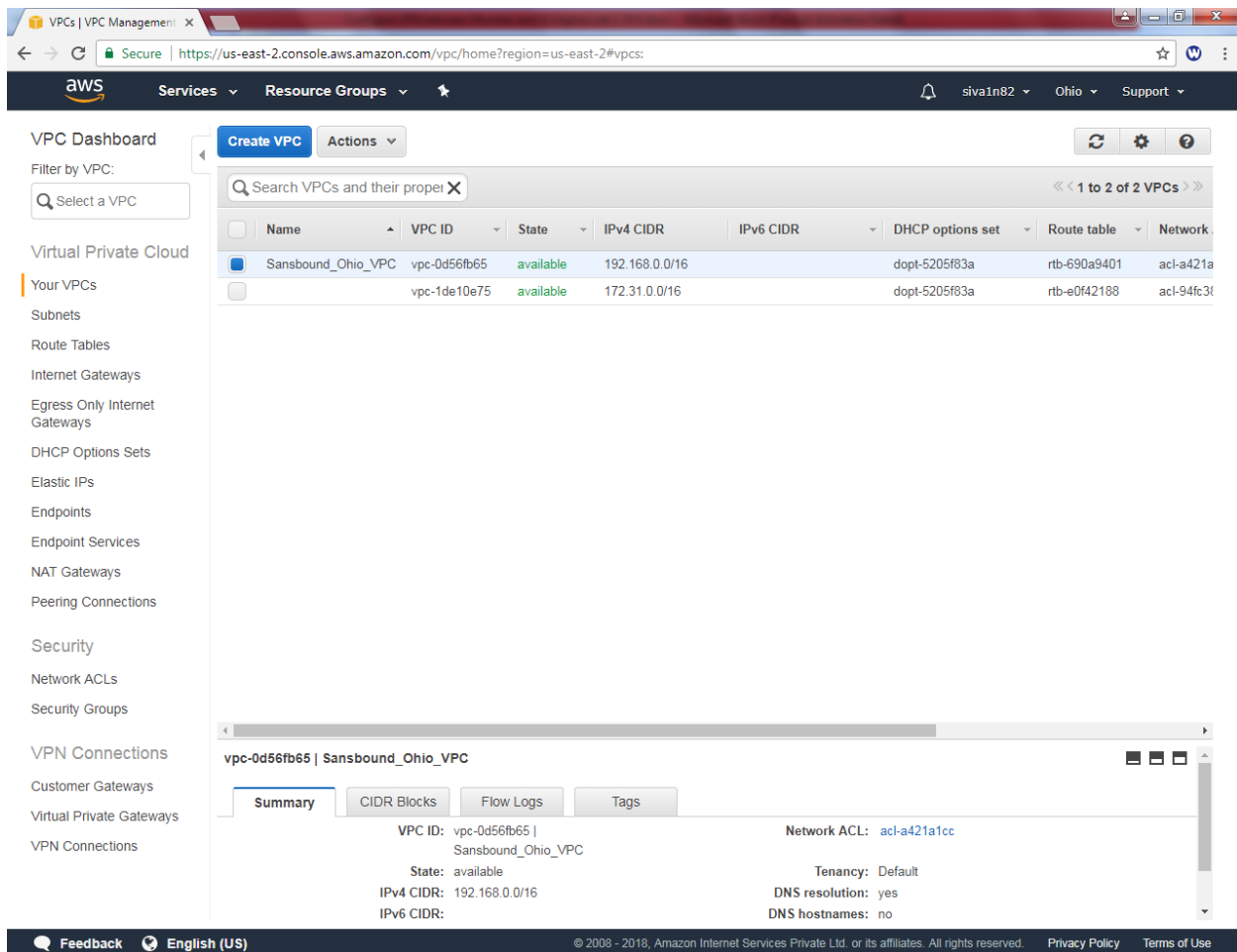
**IPv6 CIDR block\*** ☒ No IPv6 CIDR Block ⓘ  
☐ Amazon provided IPv6 CIDR block

**Tenancy**  ⓘ

Cancel Yes, Create

Click "Yes, create".

You have successfully created VPC.



The screenshot shows the AWS Management Console VPC Dashboard. The left sidebar contains navigation links for VPCs, Subnets, Route Tables, Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Endpoints, Endpoint Services, NAT Gateways, Peering Connections, Security, Network ACLs, Security Groups, VPN Connections, Customer Gateways, Virtual Private Gateways, and VPN Connections. The main content area displays a table of VPCs with columns for Name, VPC ID, State, IPv4 CIDR, IPv6 CIDR, DHCP options set, Route table, and Network ACL. Two VPCs are listed: Sansbound\_Ohio\_VPC (vpc-0d56fb65) and vpc-1de10e75. Below the table, the details for vpc-0d56fb65 | Sansbound\_Ohio\_VPC are shown, including Summary, CIDR Blocks, Flow Logs, and Tags tabs. The Summary tab is active, displaying VPC ID, State, IPv4 CIDR, IPv6 CIDR, Network ACL, Tenancy, DNS resolution, and DNS hostnames.

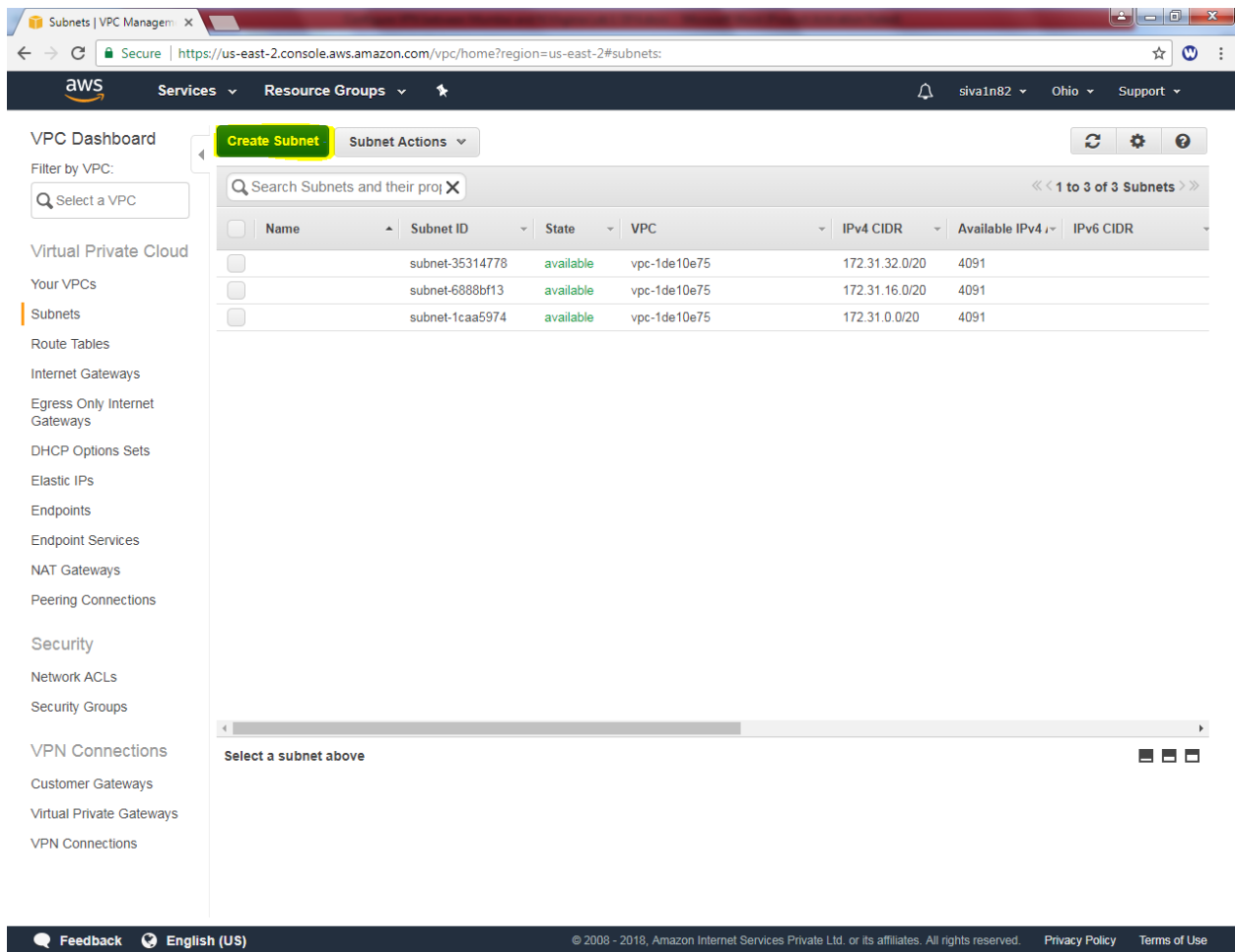
Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP options set	Route table	Network ACL
Sansbound_Ohio_VPC	vpc-0d56fb65	available	192.168.0.0/16		dopt-5205f83a	rtb-690a9401	acl-a421a1cc
	vpc-1de10e75	available	172.31.0.0/16		dopt-5205f83a	rtb-e0f42188	acl-94fc3f

**vpc-0d56fb65 | Sansbound\_Ohio\_VPC**

**Summary** | CIDR Blocks | Flow Logs | Tags

VPC ID: vpc-0d56fb65 | Sansbound\_Ohio\_VPC  
 State: available  
 IPv4 CIDR: 192.168.0.0/16  
 IPv6 CIDR:  
 Network ACL: acl-a421a1cc  
 Tenancy: Default  
 DNS resolution: yes  
 DNS hostnames: no

Click Subnets and click “Create Subnet”.



The screenshot shows the AWS Management Console interface for the VPC Subnets page. The left-hand navigation pane lists various VPC resources, with 'Subnets' highlighted. The main content area features a 'Create Subnet' button and a table of existing subnets. The table has columns for Name, Subnet ID, State, VPC, IPv4 CIDR, Available IPv4, and IPv6 CIDR. Three subnets are listed, all in an 'available' state. Below the table, there is a section for selecting a subnet.

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CIDR
	subnet-35314778	available	vpc-1de10e75	172.31.32.0/20	4091	
	subnet-6888bf13	available	vpc-1de10e75	172.31.16.0/20	4091	
	subnet-1caa5974	available	vpc-1de10e75	172.31.0.0/20	4091	

While creating subnet, name tag as “Sansbound\_Public\_Subnet\_Ohio”, vpc “Sansbound\_Ohio\_VPC”, availability zone as “2b” and IPV4 CIDR 192.168.2.0/24.

### Create Subnet ✕

Use the CIDR format to specify your subnet's IP address block (e.g., 10.0.0.0/24). Note that block sizes must be between a /16 netmask and /28 netmask. Also, note that a subnet can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

**Name tag**  ⓘ

**VPC**  ⓘ

**VPC CIDRs**

CIDR	Status	Status Reason
192.168.0.0/16	associated	

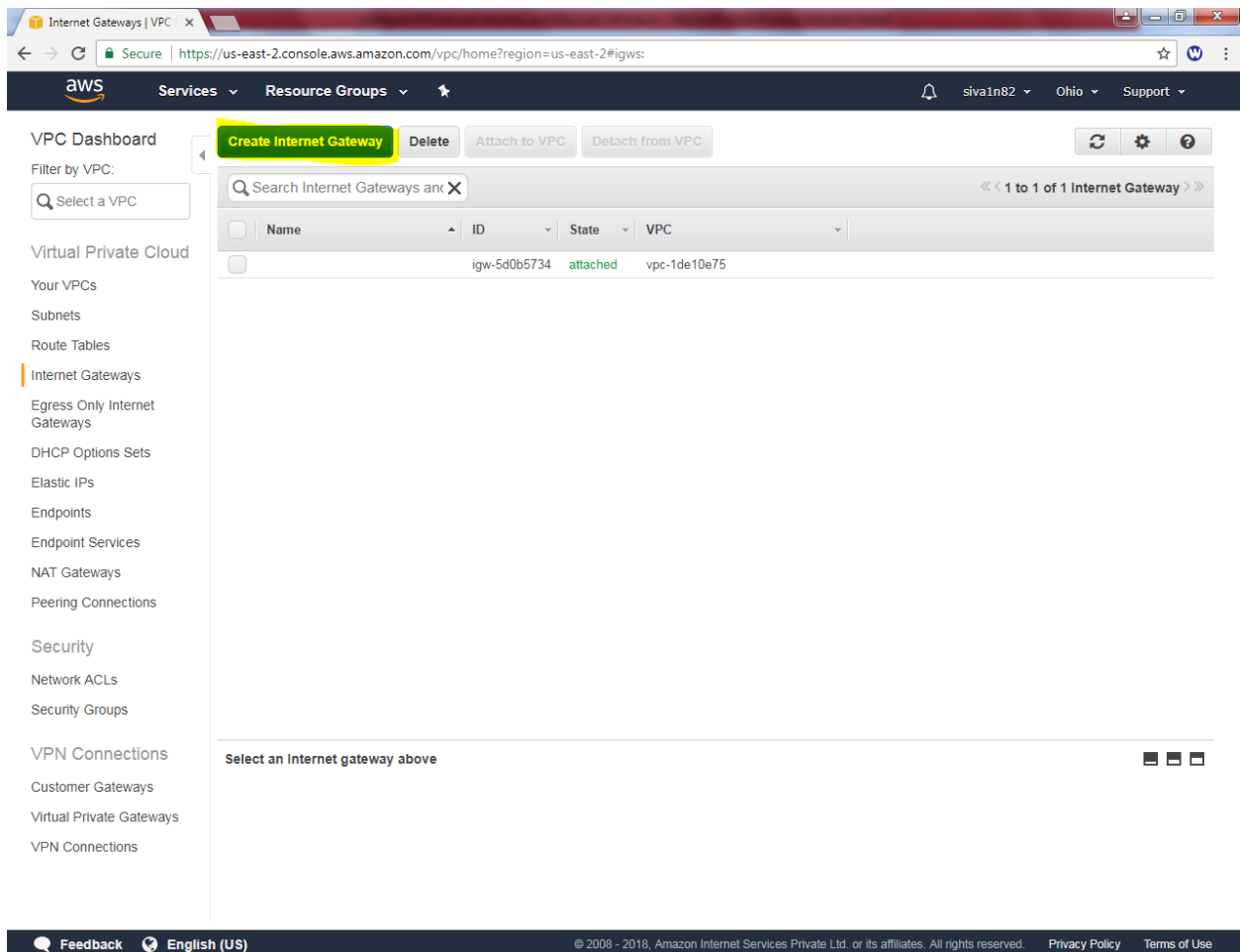
**Availability Zone**  ⓘ

**IPv4 CIDR block**  ⓘ

[Cancel](#) [Yes, Create](#)

Click “Yes, create”.

Click Internet Gateways and click “Create Internet Gateway”



The screenshot displays the AWS Management Console interface for the 'Internet Gateways' section. The left-hand navigation pane lists various VPC services, with 'Internet Gateways' currently selected. The main content area features a 'Create Internet Gateway' button, which is highlighted with a yellow box. Other buttons include 'Delete', 'Attach to VPC', and 'Detach from VPC'. Below these buttons is a search bar and a table listing the existing Internet Gateways. The table has columns for Name, ID, State, and VPC. One gateway is listed with ID 'igw-5d0b5734' and State 'attached', associated with VPC 'vpc-1de10e75'. The bottom of the console shows a footer with 'Feedback', 'English (US)', and copyright information.

Name	ID	State	VPC
	igw-5d0b5734	attached	vpc-1de10e75

Type "Sansbound\_Ohio\_IGW" then click "Yes, create".

**Create Internet Gateway** ✕

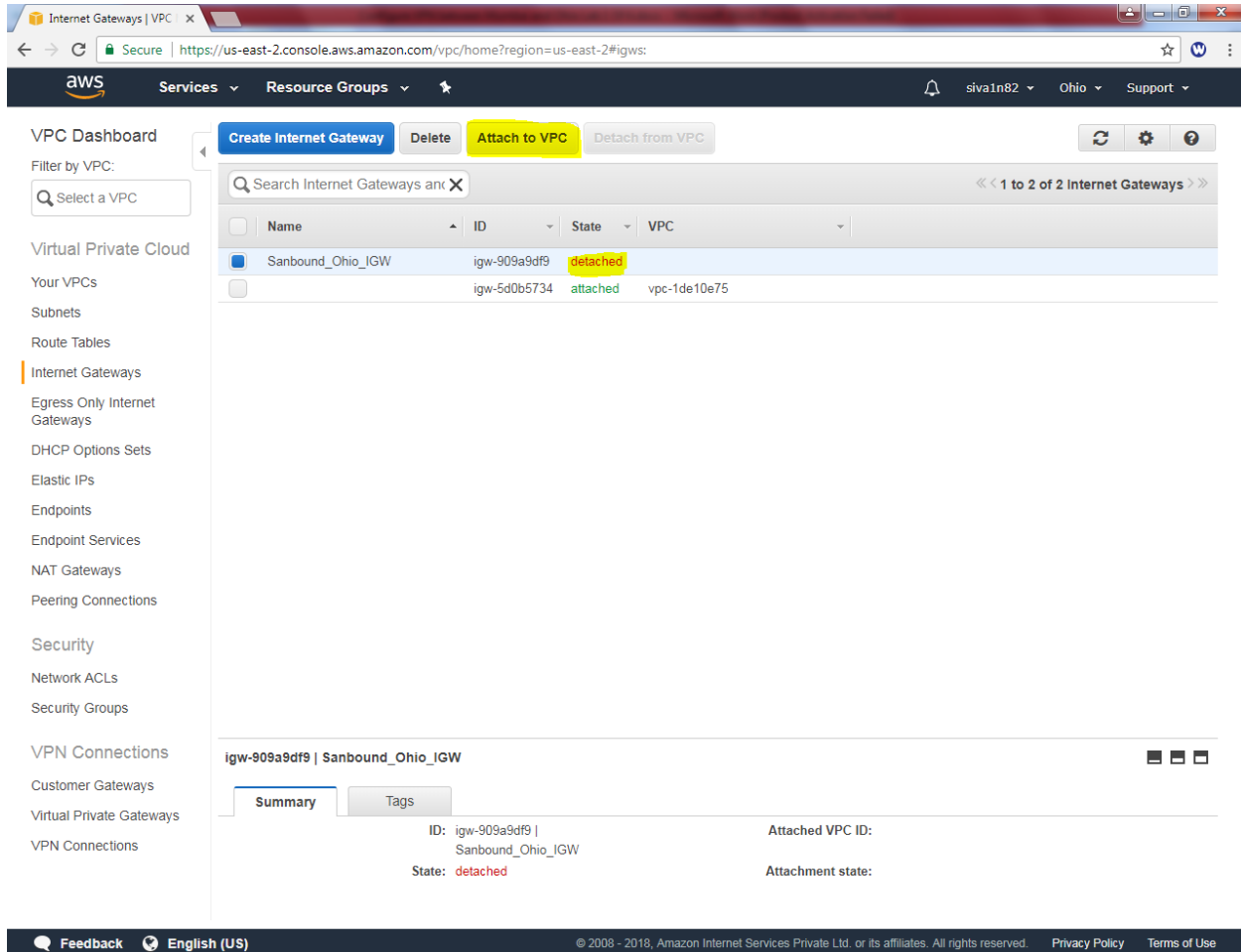
An Internet gateway is a virtual router that connects a VPC to the Internet.

**Name tag**  i

---

[Cancel](#) [Yes, Create](#)

Sansbound\_Ohio\_IGW is in detached mode, we need to attach to VPC. Click “Attach to VPC”.



The screenshot shows the AWS Management Console for the 'Internet Gateways' section. The left sidebar contains navigation links for VPC Dashboard, Virtual Private Cloud, and various network services. The main content area displays a table of Internet Gateways. The first gateway, 'Sanbound\_Ohio\_IGW' (ID: igw-909a9df9), is in a 'detached' state. The 'Attach to VPC' button is highlighted in yellow. Below the table, the details for 'igw-909a9df9 | Sanbound\_Ohio\_IGW' are shown, including its ID, state (detached), and the attached VPC ID (vpc-1de10e75).

Name	ID	State	VPC
Sanbound_Ohio_IGW	igw-909a9df9	detached	
	igw-5d0b5734	attached	vpc-1de10e75

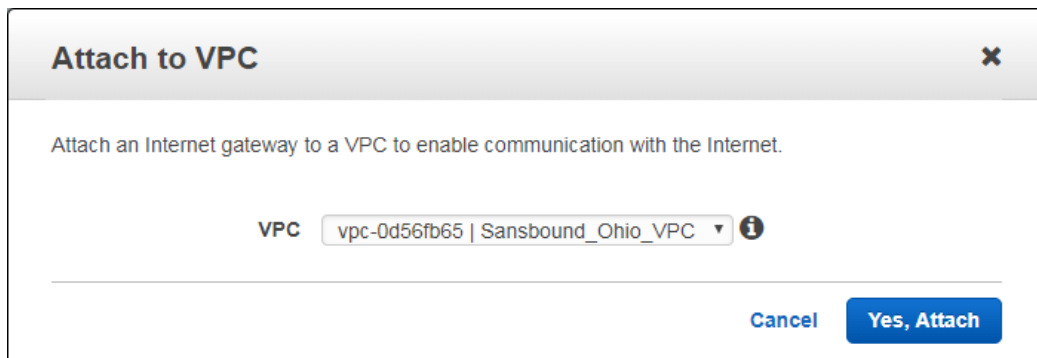
igw-909a9df9 | Sanbound\_Ohio\_IGW

Summary Tags

ID: igw-909a9df9 | Sanbound\_Ohio\_IGW  
State: detached

Attached VPC ID: vpc-1de10e75  
Attachment state:

Click “Yes, Attach”.



The screenshot shows the 'Attach to VPC' dialog box. The title is 'Attach to VPC'. The text inside says 'Attach an Internet gateway to a VPC to enable communication with the Internet.' Below this, there is a 'VPC' dropdown menu with the selected value 'vpc-0d56fb65 | Sansbound\_Ohio\_VPC'. At the bottom right, there are two buttons: 'Cancel' and 'Yes, Attach'.

**Attach to VPC**

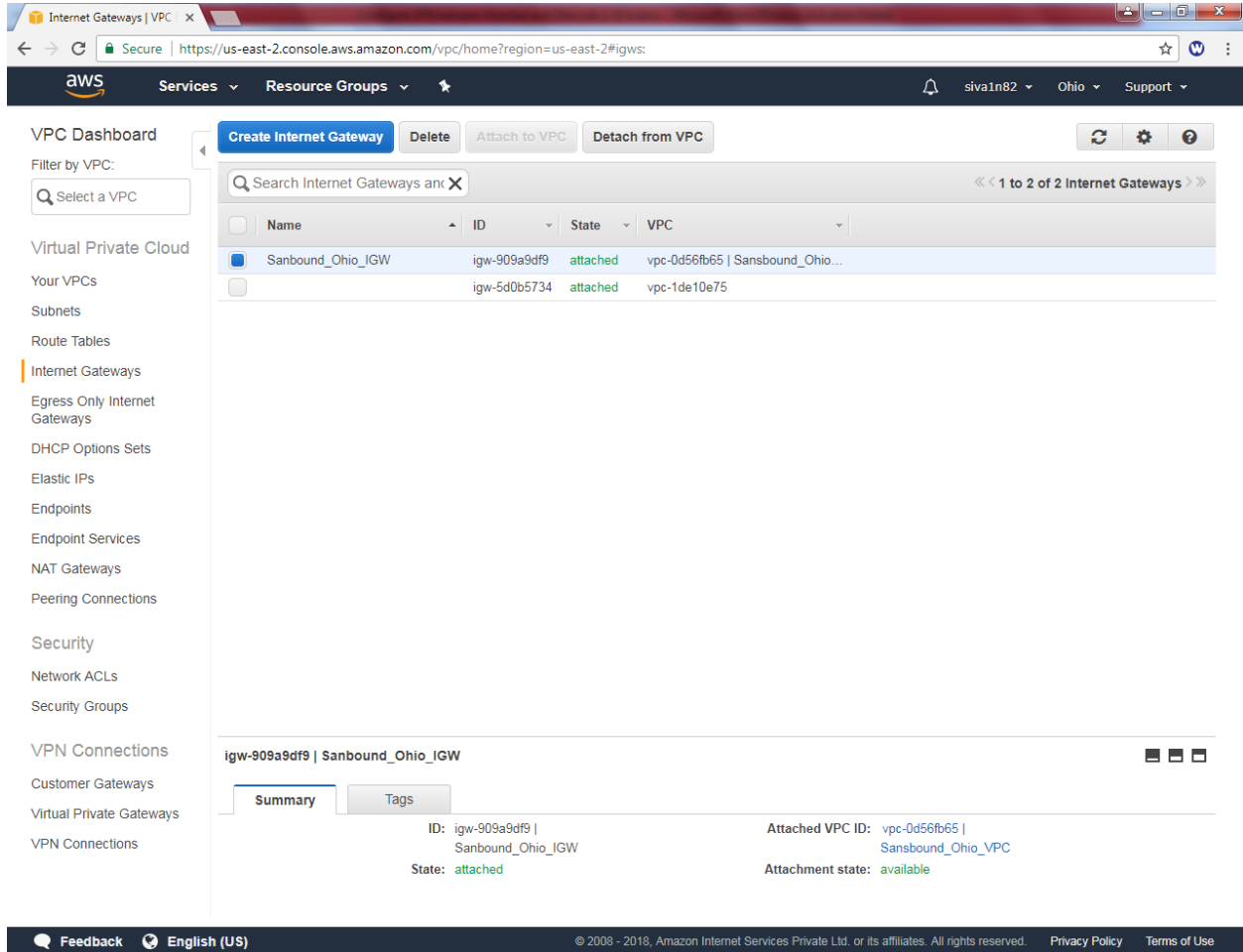
Attach an Internet gateway to a VPC to enable communication with the Internet.

VPC vpc-0d56fb65 | Sansbound\_Ohio\_VPC

Cancel Yes, Attach



Your VPC is attached with Internet gateway.



The screenshot shows the AWS Management Console interface for Internet Gateways. The left sidebar contains navigation links for VPC Dashboard, Virtual Private Cloud, Subnets, Route Tables, Internet Gateways (selected), Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Endpoints, Endpoint Services, NAT Gateways, Peering Connections, Security, Network ACLs, Security Groups, VPN Connections, Customer Gateways, Virtual Private Gateways, and VPN Connections. The main content area displays a table of Internet Gateways with columns for Name, ID, State, and VPC. The table shows two gateways: 'Sanbound\_Ohio\_IGW' (ID: igw-909a9df9, State: attached, VPC: vpc-0d56fb65 | Sansbound\_Ohio...) and 'igw-5d0b5734' (ID: igw-5d0b5734, State: attached, VPC: vpc-1de10e75). Below the table, the details for 'igw-909a9df9 | Sanbound\_Ohio\_IGW' are shown, including the Summary tab (selected) and Tags tab. The Summary tab displays the ID, State (attached), Attached VPC ID (vpc-0d56fb65 | Sansbound\_Ohio\_VPC), and Attachment state (available).

Name	ID	State	VPC
Sanbound_Ohio_IGW	igw-909a9df9	attached	vpc-0d56fb65   Sansbound_Ohio...
	igw-5d0b5734	attached	vpc-1de10e75

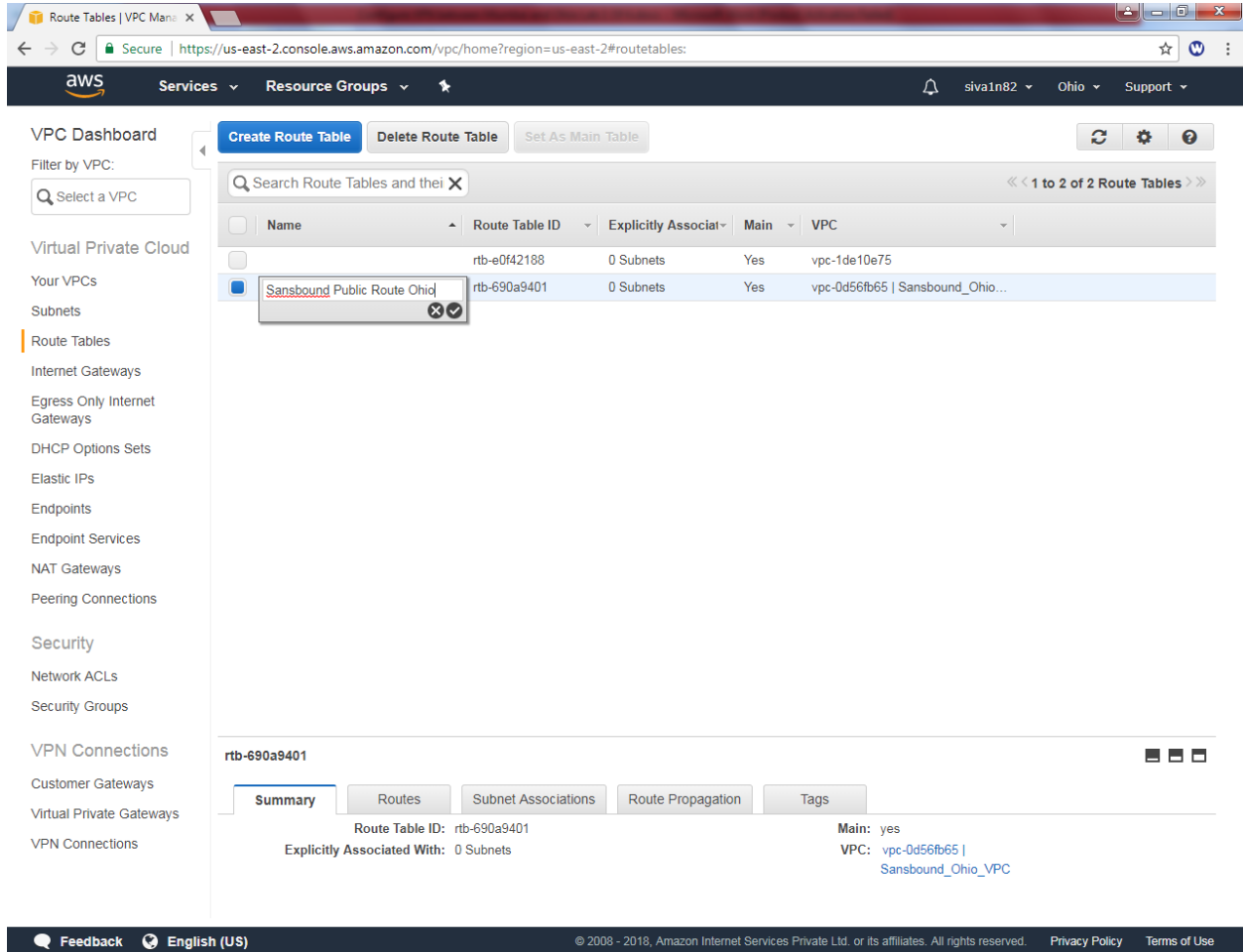
igw-909a9df9 | Sanbound\_Ohio\_IGW

Summary Tags

ID: igw-909a9df9 | Sanbound\_Ohio\_IGW  
State: attached

Attached VPC ID: vpc-0d56fb65 | Sansbound\_Ohio\_VPC  
Attachment state: available

## Rename the routing table



The screenshot shows the AWS Management Console interface for Route Tables. The left sidebar contains navigation links for VPC Dashboard, Virtual Private Cloud, Your VPCs, Subnets, Route Tables, Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Endpoints, Endpoint Services, NAT Gateways, Peering Connections, Security, Network ACLs, Security Groups, VPN Connections, Customer Gateways, Virtual Private Gateways, and VPN Connections.

The main content area displays a table of Route Tables. The table has columns for Name, Route Table ID, Explicitly Associated, Main, and VPC. Two route tables are listed:

Name	Route Table ID	Explicitly Associated	Main	VPC
	rtb-e0f42188	0 Subnets	Yes	vpc-1de10e75
<b>Sansbound Public Route Ohio</b>	rtb-690a9401	0 Subnets	Yes	vpc-0d56fb65   Sansbound_Ohio...

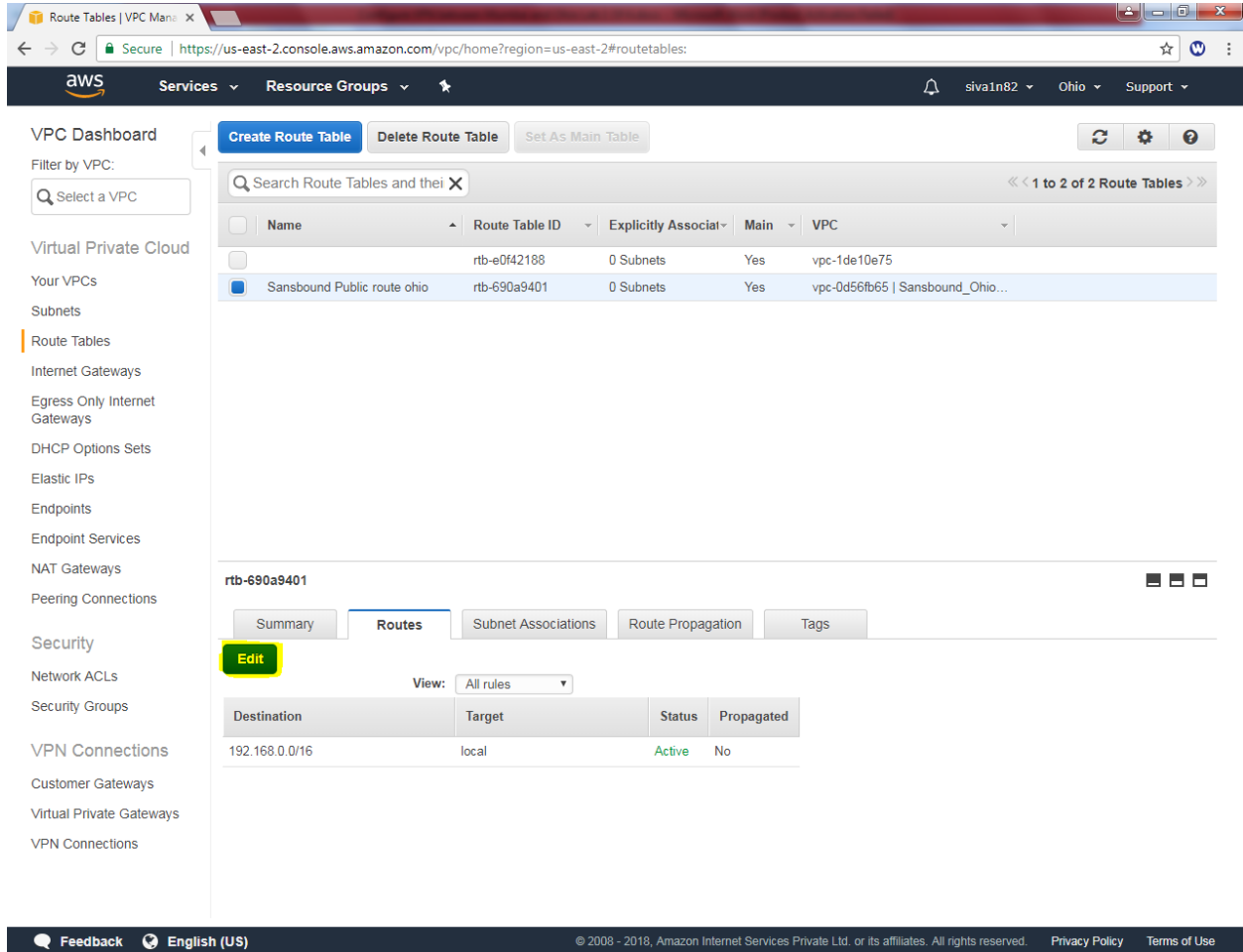
A dropdown menu is open for the selected route table, showing the current name "Sansbound Public Route Ohio" and a confirmation icon.

Below the table, the details for the selected route table (rtb-690a9401) are shown. The "Summary" tab is active, displaying the following information:

- Route Table ID: rtb-690a9401
- Main: yes
- Explicitly Associated With: 0 Subnets
- VPC: vpc-0d56fb65 | Sansbound\_Ohio\_VPC

The bottom of the console shows the footer with "Feedback", "English (US)", and copyright information.

Click “Edit”.



The screenshot shows the AWS Management Console interface for Route Tables. The left sidebar contains a navigation menu with categories like VPC Dashboard, Virtual Private Cloud, Security, and VPN Connections. The main content area displays a list of route tables. The table has columns for Name, Route Table ID, Explicitly Associated, Main, and VPC. One route table, 'Sansbound Public route ohio' (ID: rtb-690a9401), is selected. Below the list, the details for this route table are shown, including tabs for Summary, Routes, Subnet Associations, Route Propagation, and Tags. The 'Routes' tab is active, showing a single route with Destination '192.168.0.0/16' and Target 'local'. The 'Edit' button is highlighted in yellow.

Route Tables | VPC Main

Secure | <https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#routetables>

aws Services Resource Groups

VPC Dashboard

Filter by VPC:

Select a VPC

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

Security

Network ACLs

Security Groups

VPN Connections

Customer Gateways

Virtual Private Gateways

VPN Connections

Create Route Table Delete Route Table Set As Main Table

Search Route Tables and their VPCs

<< 1 to 2 of 2 Route Tables >>

Name	Route Table ID	Explicitly Associated	Main	VPC
	rtb-e0f42188	0 Subnets	Yes	vpc-1de10e75
<input checked="" type="checkbox"/> Sansbound Public route ohio	rtb-690a9401	0 Subnets	Yes	vpc-0d56fb65   Sansbound_Ohio...

rtb-690a9401

Summary Routes Subnet Associations Route Propagation Tags

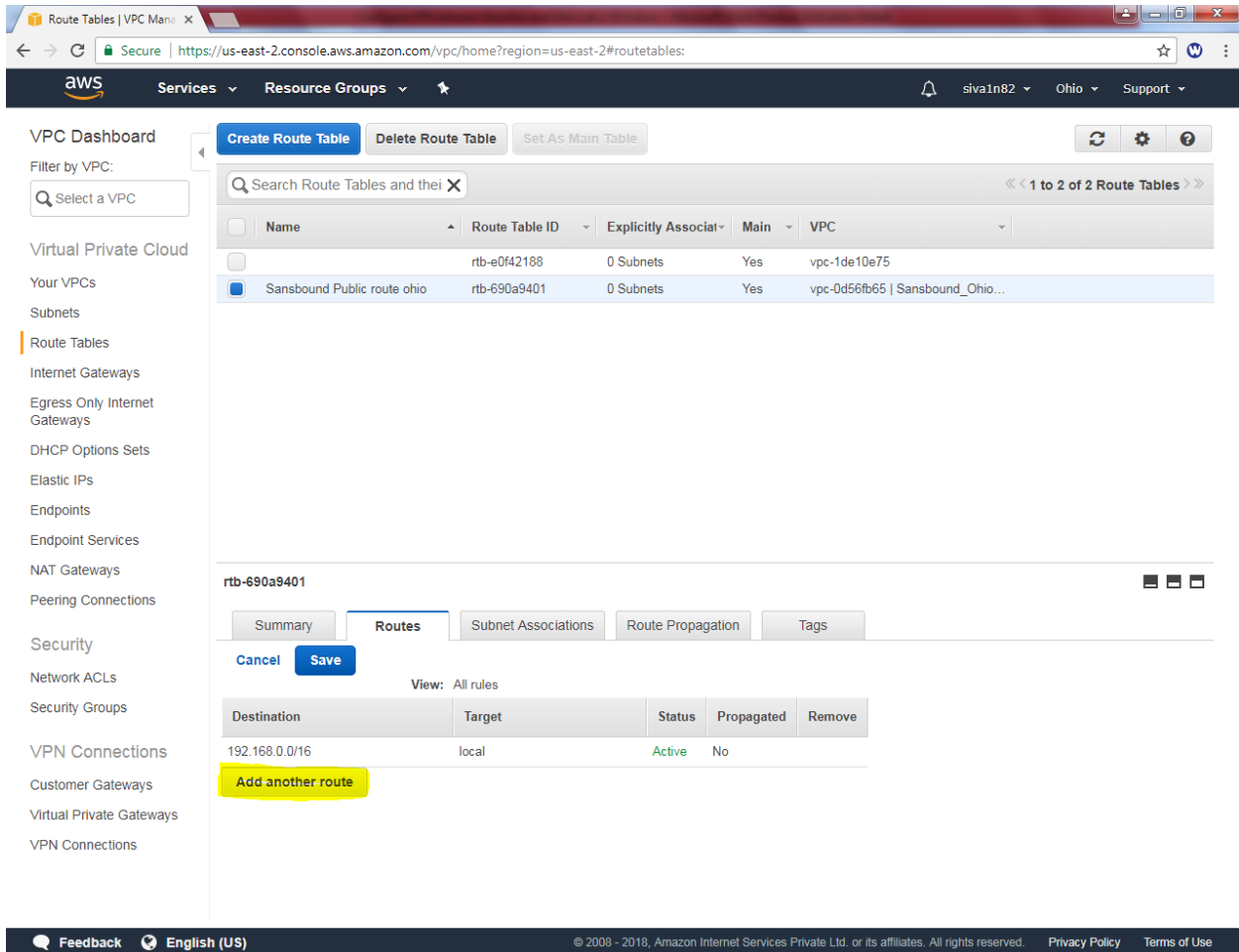
Edit

View: All rules

Destination	Target	Status	Propagated
192.168.0.0/16	local	Active	No

Feedback English (US)

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Route Tables | VPC Manager

Secure | <https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#routetables>

aws Services Resource Groups

VPC Dashboard

Filter by VPC:

Virtual Private Cloud

- Your VPCs
- Subnets
- Route Tables
- Internet Gateways
- Egress Only Internet Gateways
- DHCP Options Sets
- Elastic IPs
- Endpoints
- Endpoint Services
- NAT Gateways
- Peering Connections

Security

- Network ACLs
- Security Groups

VPN Connections

- Customer Gateways
- Virtual Private Gateways
- VPN Connections

Create Route Table Delete Route Table Set As Main Table

Search Route Tables and their VPCs

<< 1 to 2 of 2 Route Tables >>

Name	Route Table ID	Explicitly Associated	Main	VPC
<input type="checkbox"/>	rtb-e0f42188	0 Subnets	Yes	vpc-1de10e75
<input checked="" type="checkbox"/> Sansbound Public route ohio	rtb-690a9401	0 Subnets	Yes	vpc-0d56fb65   Sansbound_Ohio...

rtb-690a9401

Summary Routes Subnet Associations Route Propagation Tags

Cancel Save

View: All rules

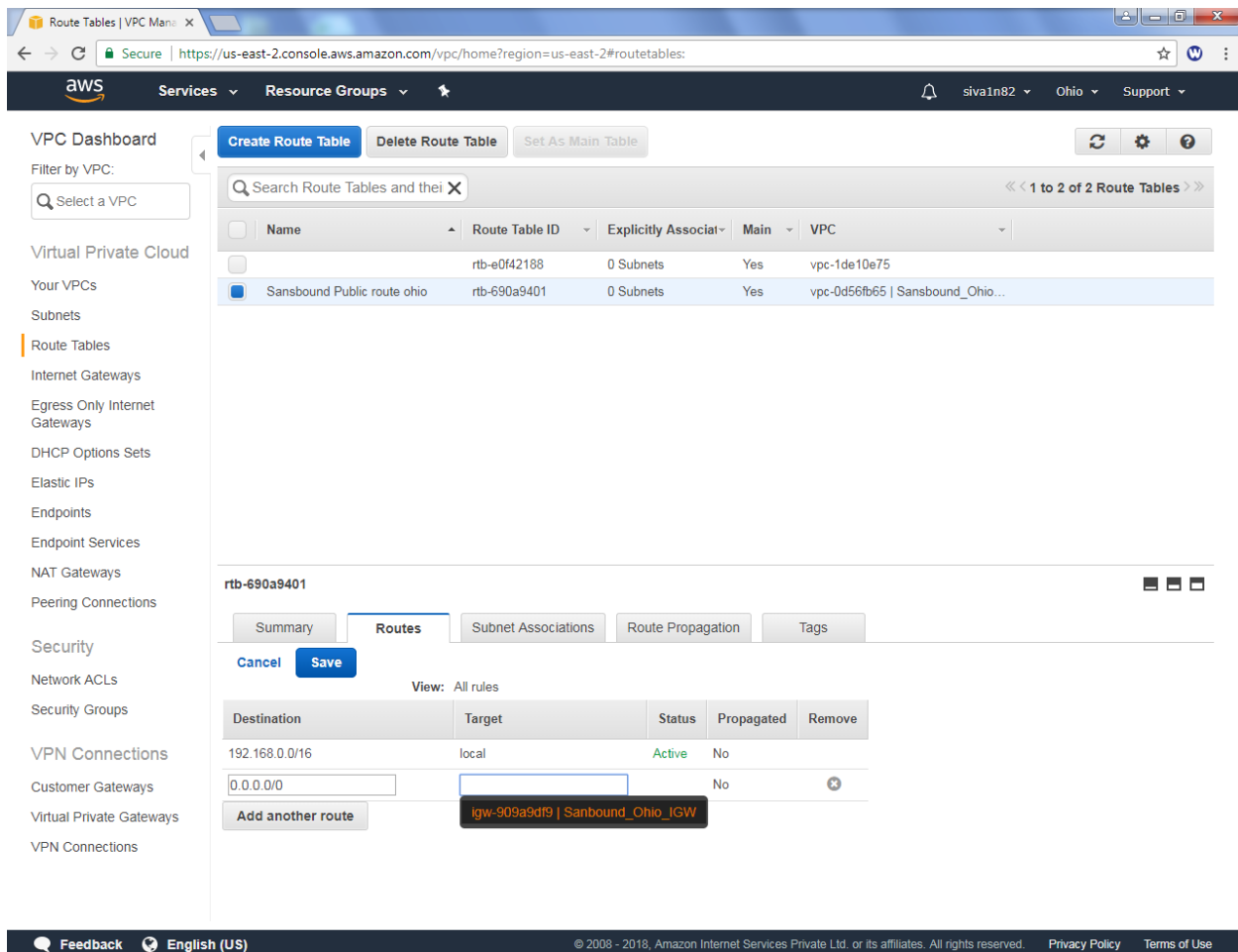
Destination	Target	Status	Propagated	Remove
192.168.0.0/16	local	Active	No	

Add another route

Feedback English (US)

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Type default route 0.0.0.0/0 in destination and Select Igw-\* as target.



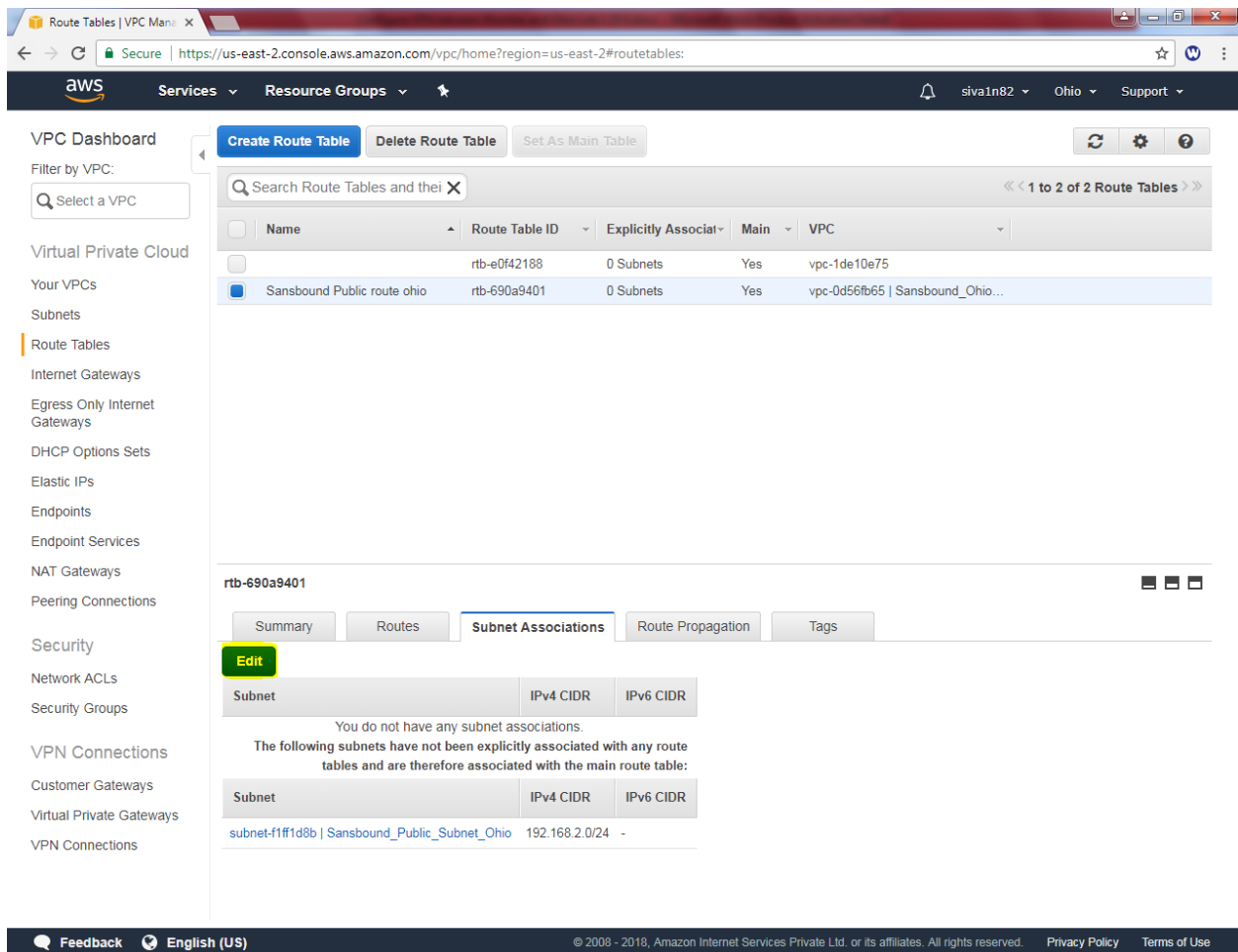
The screenshot shows the AWS Management Console interface for managing Route Tables. The left sidebar contains a navigation menu with categories like VPC Dashboard, Virtual Private Cloud, Security, and VPN Connections. The main content area displays the 'Routes' tab for the selected route table (rtb-690a9401). The 'Routes' table lists the following routes:

Destination	Target	Status	Propagated	Remove
192.168.0.0/16	local	Active	No	
0.0.0.0/0	igw-909a9d19   Sansbound_Ohio_IGW		No	

Below the table, there is an 'Add another route' button. The interface also includes a search bar at the top, a filter by VPC dropdown, and a 'Cancel'/'Save' button for the current route configuration.

Then Click “Save”.

Click “Edit”.

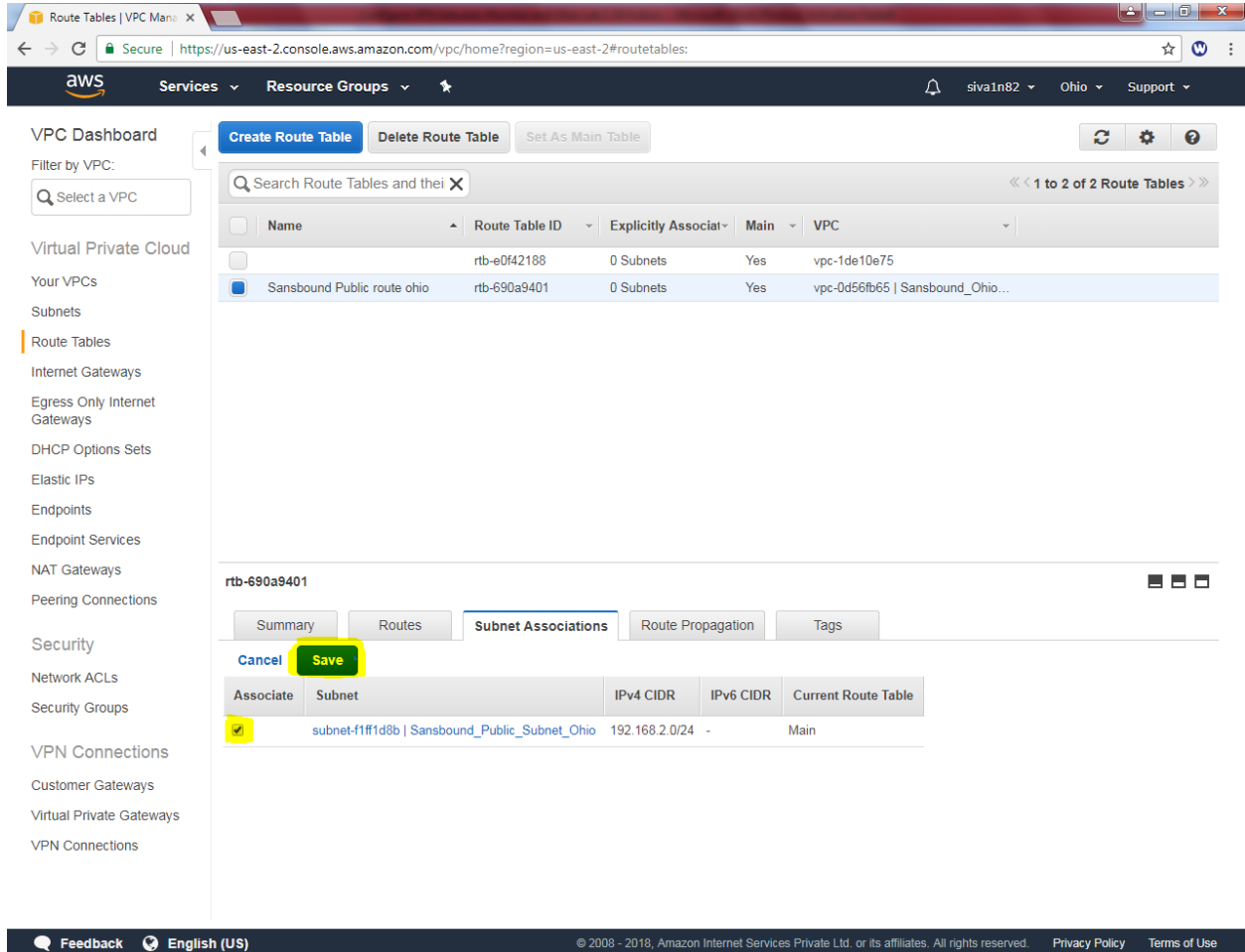


The screenshot shows the AWS Management Console interface for Route Tables. The left sidebar contains a navigation menu with categories like VPC Dashboard, Virtual Private Cloud, Security, and VPN Connections. The main content area displays a list of route tables. The table has columns for Name, Route Table ID, Explicitly Associated, Main, and VPC. The selected route table is 'Sansbound Public route ohio' with ID 'rtb-690a9401'. Below the table, the 'Subnet Associations' tab is active, showing a message: 'You do not have any subnet associations. The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:'. A table lists these subnets, including 'subnet-f1f1d8b | Sansbound\_Public\_Subnet\_Ohio' with CIDR '192.168.2.0/24'. The 'Edit' button is highlighted in yellow.

Name	Route Table ID	Explicitly Associated	Main	VPC
Sansbound Public route ohio	rtb-690a9401	0 Subnets	Yes	vpc-0d56fb65   Sansbound_Ohio...

Subnet	IPv4 CIDR	IPv6 CIDR
subnet-f1f1d8b   Sansbound_Public_Subnet_Ohio	192.168.2.0/24	-

Check “Sanbound\_Public\_Subnet\_Ohio” and click “save”.



The screenshot shows the AWS Management Console interface for the VPC Dashboard. The left sidebar contains a navigation menu with categories like Virtual Private Cloud, Security, and VPN Connections. The main content area displays a list of Route Tables. The selected route table, "Sansbound Public route ohio" (ID: rtb-690a9401), is shown in detail. The "Subnet Associations" tab is active, displaying a table with one association: "subnet-f1f1d8b | Sansbound\_Public\_Subnet\_Ohio" with an IPv4 CIDR of "192.168.2.0/24". The "Save" button is highlighted in yellow.

Name	Route Table ID	Explicitly Associated	Main	VPC
Sansbound Public route ohio	rtb-690a9401	0 Subnets	Yes	vpc-0d56fb65   Sansbound_Ohio...

Associate	Subnet	IPv4 CIDR	IPv6 CIDR	Current Route Table
<input checked="" type="checkbox"/>	subnet-f1f1d8b   Sansbound_Public_Subnet_Ohio	192.168.2.0/24	-	Main