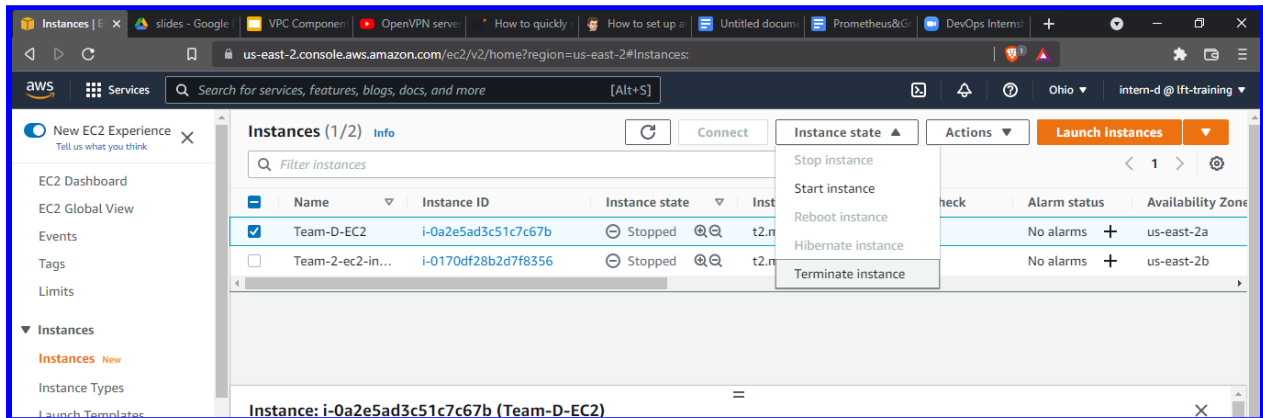
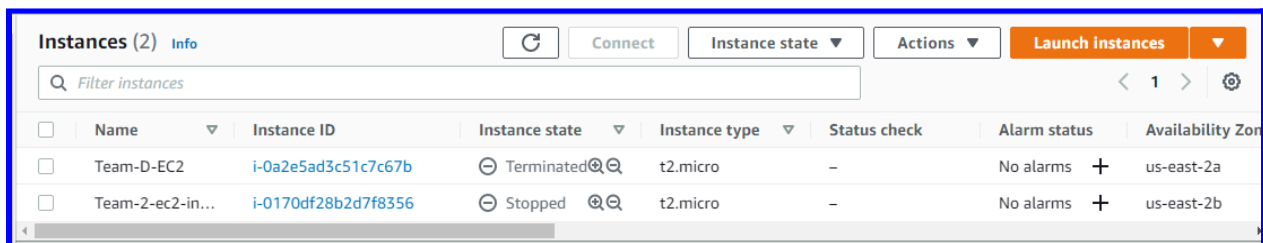


Terminate previously created EC2

Terminating EC2 Instance



EC2 Instance Terminated



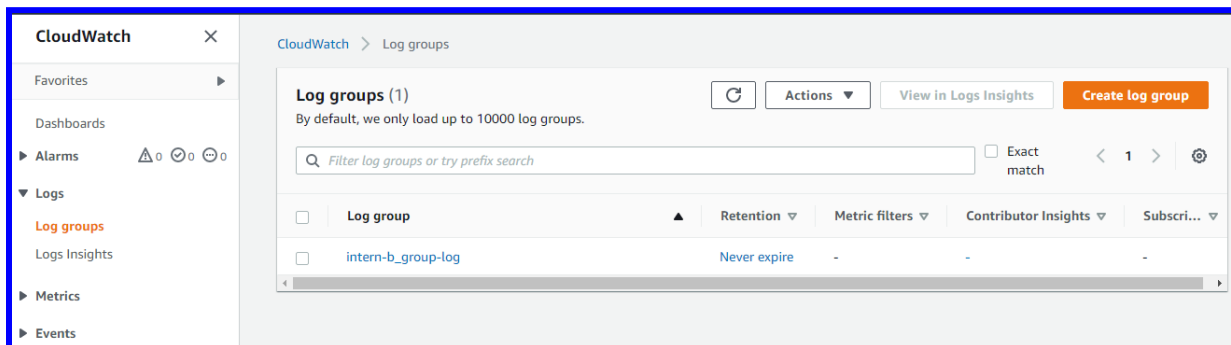
(Optional) Enable VPC Flow Logs via CloudWatch Log.

For Creating Flow Logs via CloudWatch

We need **IAM Role & Log Group**

We are using the same IAM role “**AWSServiceRoleForApplicationInsights**” created already.

Creating CloudWatch log Group



Log Group Details

Create log group

Log group details

Log group name

Team-D-CloudWatch-Log-Group

Retention setting

Never expire

KMS key ARN - optional

Tags

A tag is a label that you assign to an Amazon Web Services resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your Amazon Web Services costs.

Key

Q Name



Value - optional

Q Team-D-CloudWatch-Log-Group



Remove

Add new tag

Log Group successfully created

Log groups (2)

By default, we only load up to 10000 log groups.



Actions

View in Logs Insights

Create log group

Q Filter log groups or try prefix search

☐ Exact match

< 1 >



<input type="checkbox"/>	Log group ▲	Retention ▼	Metric filters ▼	Contributor Insights ▼	Subscri... ▼
<input type="checkbox"/>	intern-b_group-log	Never expire	-	-	-
<input type="checkbox"/>	Team-D-CloudWatch-Log-Group	Never expire	-	-	-



Creating Flow Logs for VPC

VPC > Your VPCs > vpc-0537baf72f80d5930

vpc-0537baf72f80d5930 / Team-D-VPC

Actions ▲

- Create flow log
- Edit CIDRs
- Edit DHCP options set
- Edit DNS hostnames
- Edit DNS resolution
- Manage middlebox routes
- Manage tags
- Delete VPC

Details		Info
VPC ID	State	DNS hostnames
 vpc-0537baf72f80d5930	 Available	Disabled
Tenancy	DHCP options set	Main route table
Default	dopt-0dbb64d8ec97c5e0e	rtb-07774796230288822
Default VPC	IPv4 CIDR	IPv6 pool
No	10.15.32.0/22	–

Flow log details

Flow log settings

Name - *optional*

Team-D-Flow-Logs

Filter

The type of traffic to capture (accepted traffic only, rejected traffic only, or all traffic).

☐ Accept

☐ Reject

☒ All

Maximum aggregation interval [Info](#)

The maximum interval of time during which a flow of packets is captured and aggregated into a flow log record.

☒ 10 minutes

☐ 1 minute

Destination

The destination to which to publish the flow log data.


☒ Send to CloudWatch Logs

☐ Send to an Amazon S3 bucket

Destination log group [Info](#)

The name of the Amazon CloudWatch log group to which the flow log is published. A new log stream is created for each monitored network interface.

Team-D-CloudWatch-Log-Group ▼



Flow log details

IAM role [Info](#)
The IAM role that has permission to publish to the Amazon CloudWatch log group.

AWSServiceRoleForApplicationInsights

↻

The IAM role must have permission to publish to the CloudWatch log group. [Set up permissions](#)

Log record format
Specify the fields to include in the flow log record.

☒ AWS default format

☐ Custom format

Format preview

```
${version} ${account-id} ${interface-id} ${srcaddr} ${dstaddr} ${srcport} ${dstport}
${protocol} ${packets} ${bytes} ${start} ${end} ${action} ${log-status}
```

📋 Copy

Tags
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 a your resources or track your AWS costs.

Key

×

Value - optional

×

Remove

Successfully created Flow-Logs Via CloudWatch

🟢 Successfully created flow log for vpc-0537baf72f80d5930.

Your VPCs (1/3) [Info](#)

↻

Actions ▾

Create VPC

< 1 >

⚙️

<input type="checkbox"/>	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	Team-B-VPC	vpc-0129bda0428def1cf	🟢 Available	10.15.16.0/22	-
<input checked="" type="checkbox"/>	Team-D-VPC	vpc-0537baf72f80d5930	🟢 Available	10.15.32.0/22	-

Flow logs (1/1) [Info](#)

↻

Actions ▾

Create flow log

< 1 >

⚙️

<input checked="" type="checkbox"/>	Name	Flow log ID	Filter	Destination type	Des
<input checked="" type="checkbox"/>	Team-D-Flow-Logs	fl-0c63b32cb500d7443	ALL	cloud-watch-logs	Tea

Create 3 subnets in each AZ to be used as public.

The VPC network is **10.15.32.0/22**

To create 6 subnets (**3-Pub & 3-Pvt**)

Using Subnet Masking of 27 - 32 Hosts in each subnet

<i>Name</i>	<i>Range</i>	<i>Number of Host Available in AWS</i>	<i>Availability Zone</i>
<i>Pub Subnet 1</i>	<i>10.15.32.0 - 10.15.32.31</i>	<i>27</i>	<i>us-east-2a</i>
<i>Pub Subnet 2</i>	<i>10.15.32.32 - 10.15.32.63</i>	<i>27</i>	<i>us-east-2b</i>
<i>Pub Subnet 3</i>	<i>10.15.32.64 - 10.15.32.95</i>	<i>27</i>	<i>us-east-2c</i>
<i>Pvt Subnet 1</i>	<i>10.15.32.96 - 10.15.32.127</i>	<i>27</i>	<i>us-east-2a</i>
<i>Pvt Subnet 2</i>	<i>10.15.32.128 - 10.15.32.159</i>	<i>27</i>	<i>us-east-2b</i>
<i>Pvt Subnet 3</i>	<i>10.15.32.160 - 10.15.32.191</i>	<i>27</i>	<i>us-east-2c</i>

Creating Subnets - Home_Page

Subnets (6) Info						Refresh	Actions	Create subnet
<input type="text" value="Filter subnets"/>						1		
<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR			
<input type="checkbox"/>	team-b-subnet3	subnet-09d116901221af21f	Available	vpc-0129bda0428def1cf Tea...	10.15.16.48/28			
<input type="checkbox"/>	-	subnet-0101d9eb20e3561d9	Available	vpc-077c7747a9076e6ae _	172.31.32.0/20			
<input type="checkbox"/>	team-b-subnet2	subnet-09c75905282309282	Available	vpc-0129bda0428def1cf Tea...	10.15.16.32/28			
<input type="checkbox"/>	-	subnet-073be01d6c7900278	Available	vpc-077c7747a9076e6ae _	172.31.0.0/20			
<input type="checkbox"/>	team-b-subnet1	subnet-057ca2b990e2c67f2	Available	vpc-0129bda0428def1cf Tea...	10.15.16.0/28			
<input type="checkbox"/>	-	subnet-036bf5ab48721c7c6	Available	vpc-077c7747a9076e6ae	172.31.16.0/20			

Creating Public Subnet 1

VPC

VPC ID

Create subnets in this VPC.

vpc-0537baf72f80d5930 (Team-D-VPC) ▼

Associated VPC CIDRs

IPv4 CIDRs

10.15.32.0/22

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.

Team-D-Pub-Subnet-1

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 (Ohio) / us-east-2a ▼

IPv4 CIDR block [Info](#)

Q 10.15.32.0/27 X

▼ Tags - optional

Key	Value - optional	
Q Name X	Q Team-D-Pub-Subnet-1 X	Remove
<p>Add new tag</p>		

Creating Public Subnet 2

VPC

VPC ID
Create subnets in this VPC.

vpc-0537baf72f80d5930 (Team-D-VPC) ▼

Associated VPC CIDRs

IPv4 CIDRs

10.15.32.0/22

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.

Team-D-Pub-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 (Ohio) / us-east-2b ▼

IPv4 CIDR block [Info](#)

Q 10.15.32.31/27 X

▼ Tags - optional

Key	Value - optional	
Q Name X	Q Team-D-Pub-Subnet-2 X	Remove
<button>Add new tag</button>		

Creating Public Subnet 3

VPC

VPC ID
Create subnets in this VPC.

vpc-0537baf72f80d5930 (Team-D-VPC) ▼

Associated VPC CIDRs

IPv4 CIDRs

10.15.32.0/22

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.

Team-D-Pub-Subnet-3

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 (Ohio) / us-east-2c ▼

IPv4 CIDR block [Info](#)

Q 10.15.32.64/27 X

▼ Tags - optional

Key	Value - optional	
Q Name X	Q Team-D-Pub-Subnet-3 X	Remove

Add new tag

Create 3 subnets in each AZ to be used as private.

Creating Private Subnet 1

VPC

VPC ID
Create subnets in this VPC.

vpc-0537baf72f80d5930 (Team-D-VPC) ▼

Associated VPC CIDRs

IPv4 CIDRs
10.15.32.0/22

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.

Team-D-Pvt-Subnet-1

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 (Ohio) / us-east-2a ▼

IPv4 CIDR block [Info](#)

10.15.32.96/27 ✕

▼ Tags - optional

Key	Value - optional	
10.15.32.96/27 ✕	Team-D-Pvt-Subnet-1 ✕	Remove

Creating Private Subnet 2

VPC

VPC ID
Create subnets in this VPC.

vpc-0537baf72f80d5930 (Team-D-VPC) ▼

Associated VPC CIDRs

IPv4 CIDRs

10.15.32.0/22

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.

Team-D-Pvt-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 (Ohio) / us-east-2b ▼

IPv4 CIDR block [Info](#)

Q 10.15.32.128/27 X

▼ Tags - optional

Key	Value - optional	
Q Name X	Q Team-D-Pvt-Subnet-2 X	Remove

Creating Private Subnet 3

VPC

VPC ID
Create subnets in this VPC.

vpc-0537baf72f80d5930 (Team-D-VPC) ▼

Associated VPC CIDRs

IPv4 CIDRs

10.15.32.0/22

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.

Team-D-Pvt-Subnet-3

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 (Ohio) / us-east-2c ▼

IPv4 CIDR block [Info](#)

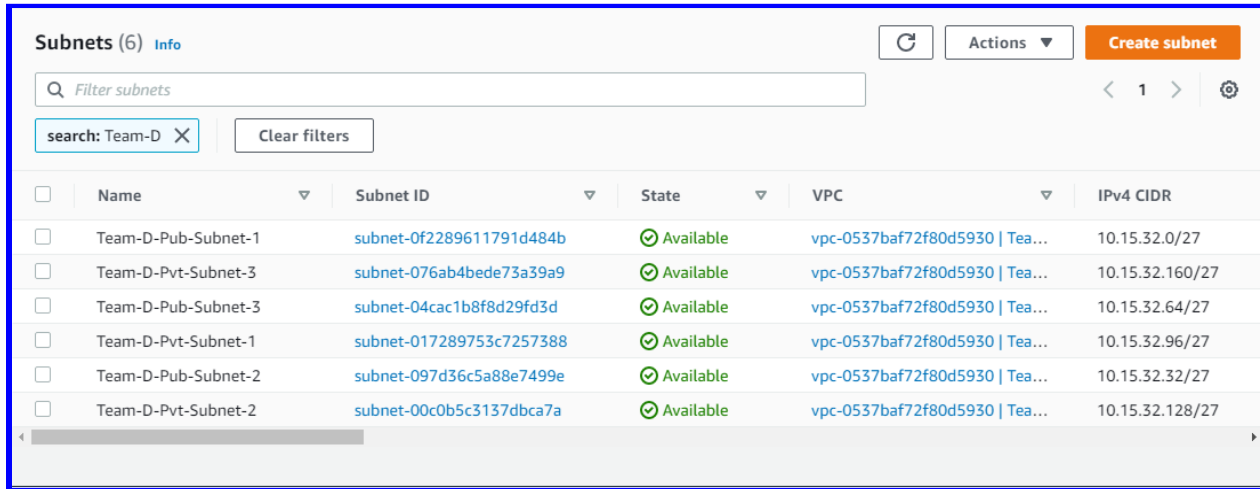
Q 10.15.32.160/27 X

▼ Tags - optional

Key	Value - optional	
Q Name X	Q Team-D-Pvt-Subnet-3 X	Remove

Add new tag

All created subnets of Team-D

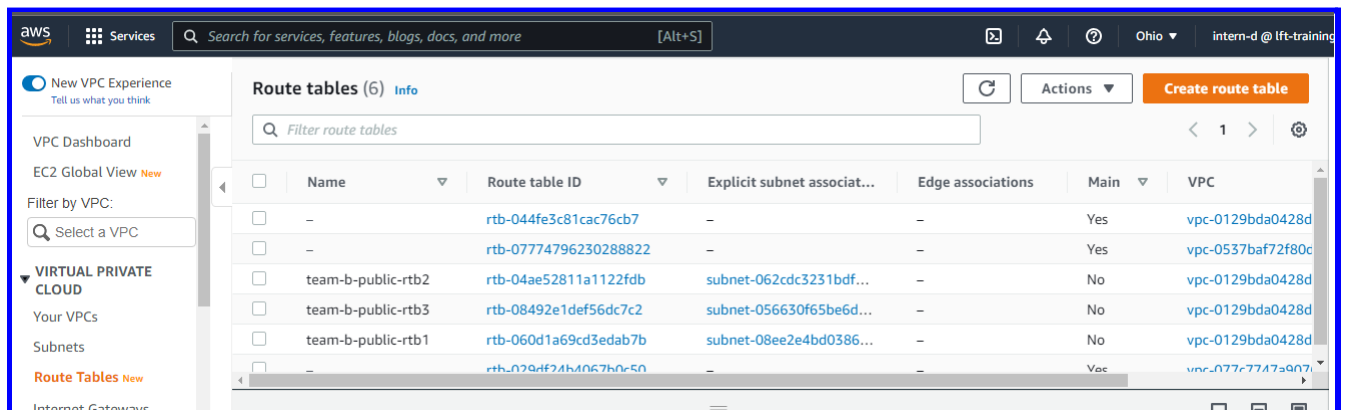


The screenshot shows the AWS Subnets console with a search filter for 'Team-D'. It displays a list of six subnets, all in an 'Available' state, associated with VPC vpc-0537baf72f80d5930. The subnets are organized into three pairs of public and private subnets.

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	Team-D-Pub-Subnet-1	subnet-0f2289611791d484b	Available	vpc-0537baf72f80d5930 Tea...	10.15.32.0/27
<input type="checkbox"/>	Team-D-Pvt-Subnet-3	subnet-076ab4bede73a39a9	Available	vpc-0537baf72f80d5930 Tea...	10.15.32.160/27
<input type="checkbox"/>	Team-D-Pub-Subnet-3	subnet-04cac1b8f8d29fd3d	Available	vpc-0537baf72f80d5930 Tea...	10.15.32.64/27
<input type="checkbox"/>	Team-D-Pvt-Subnet-1	subnet-017289753c7257388	Available	vpc-0537baf72f80d5930 Tea...	10.15.32.96/27
<input type="checkbox"/>	Team-D-Pub-Subnet-2	subnet-097d36c5a88e7499e	Available	vpc-0537baf72f80d5930 Tea...	10.15.32.32/27
<input type="checkbox"/>	Team-D-Pvt-Subnet-2	subnet-00c0b5c3137dbca7a	Available	vpc-0537baf72f80d5930 Tea...	10.15.32.128/27

Create a Public Route Table and associate public subnets.

Creating Route table - Home_Page



The screenshot shows the AWS Route Tables console with a search filter for 'Team-D'. It displays a list of six route tables. The first two are default route tables for VPCs vpc-0129bda0428d and vpc-0537baf72f80c. The next three are public route tables (team-b-public-rtb2, team-b-public-rtb3, team-b-public-rtb1) associated with VPC vpc-0129bda0428d. The last one is a VPC route table (rtb-077e777a7a9d7) associated with VPC vpc-077e777a7a9d7.

<input type="checkbox"/>	Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC
<input type="checkbox"/>	-	rtb-044fe3c81cac76cb7	-	-	Yes	vpc-0129bda0428d
<input type="checkbox"/>	-	rtb-07774796230288822	-	-	Yes	vpc-0537baf72f80c
<input type="checkbox"/>	team-b-public-rtb2	rtb-04ae52811a1122fdb	subnet-062cdc3231bdf...	-	No	vpc-0129bda0428d
<input type="checkbox"/>	team-b-public-rtb3	rtb-08492e1def56dc7c2	subnet-056630f65be6d...	-	No	vpc-0129bda0428d
<input type="checkbox"/>	team-b-public-rtb1	rtb-060d1a69cd3edab7b	subnet-08ee2e4bd0386...	-	No	vpc-0129bda0428d
<input type="checkbox"/>	-	rtb-077e777a7a9d7	-	-	Vpc	vpc-077e777a7a9d7

Creating public Route Table

Create route table Info

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Route table settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.

VPC
The VPC to use for this route table.

Tags

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

Remove

Add new tag

You can add 49 more tags.

Successfully Created Route Table

VPC > Route tables > rtb-05eeaf795a9933f6d

rtb-05eeaf795a9933f6d / Team-D-Pub-RTB Actions

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Details Info

Route table ID rtb-05eeaf795a9933f6d	Main No	Explicit subnet associations -	Edge associations -
VPC vpc-0537baf72f80d5930 Team-D-VPC	Owner ID 949263681218		

Routes

Subnet associations

Edge associations

Route propagation

Tags

Explicit subnet associations (0) Edit subnet associations

Editing subnet association to associate **pub** subnets

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (3/6)

< 1 > ⚙

	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input checked="" type="checkbox"/>	Team-D-Pub-Subnet-1	subnet-0f2289611791d484b	10.15.32.0/27	–	Main (rtb-07774796230288822)
<input type="checkbox"/>	Team-D-Pvt-Subnet-1	subnet-017289753c7257388	10.15.32.96/27	–	Main (rtb-07774796230288822)
<input type="checkbox"/>	Team-D-Pvt-Subnet-3	subnet-076ab4bede73a39a9	10.15.32.160/27	–	Main (rtb-07774796230288822)
<input checked="" type="checkbox"/>	Team-D-Pub-Subnet-2	subnet-097d36c5a88e7499e	10.15.32.32/27	–	Main (rtb-07774796230288822)
<input type="checkbox"/>	Team-D-Pvt-Subnet-2	subnet-00c0b5c3137dbca7a	10.15.32.128/27	–	Main (rtb-07774796230288822)
<input checked="" type="checkbox"/>	Team-D-Pub-Subnet-3	subnet-04cac1b8f8d29fd3d	10.15.32.64/27	–	Main (rtb-07774796230288822)

Successfully Associated Public Subnets to Public Route table

✔ You have successfully updated subnet associations for rtb-05eeaf795a9933f6d / Team-D-Pub-RTB.

Routes

Subnet associations

Edge associations

Route propagation

Tags

Explicit subnet associations (3)

< 1 > ⚙

Subnet ID

IPv4 CIDR

IPv6 CIDR

subnet-0f2289611791d484b / Team-D-Pub-Subnet-1

10.15.32.0/27

–

subnet-097d36c5a88e7499e / Team-D-Pub-Subnet-2

10.15.32.32/27

–

subnet-04cac1b8f8d29fd3d / Team-D-Pub-Subnet-3

10.15.32.64/27

–

Edit subnet associations

Create Private Route Table and associate private subnets

Creating Private Route Table

Create route table Info

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Route table settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.

Team-D-Pvt-RTB

VPC
The VPC to use for this route table.

vpc-0537baf72f80d5930 (Team-D-VPC) ▼

Tags

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 ✕ 🔍 Team-D-Pvt-RTB ✕ Remove

Add new tag

You can add 49 more tags.

Successfully created Route Table

🔔 Route table rtb-09f9cee465488e9a1 | Team-D-Pvt-RTB was created successfully.

VPC > Route tables > rtb-09f9cee465488e9a1

rtb-09f9cee465488e9a1 / Team-D-Pvt-RTB Actions ▼

🔔 You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer ✕

Details Info

Route table ID 🔑 rtb-09f9cee465488e9a1	Main 🔑 No	Explicit subnet associations -	Edge associations -
VPC vpc-0537baf72f80d5930 Team-D-VPC	Owner ID 🔑 949263681218		

Editing subnet association to associate Pvt subnets

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (3/6)

<input type="checkbox"/>	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	Team-D-Pub-Subnet-1	subnet-0f2289611791d484b	10.15.32.0/27	–
<input checked="" type="checkbox"/>	Team-D-Pvt-Subnet-1	subnet-017289753c7257388	10.15.32.96/27	–
<input checked="" type="checkbox"/>	Team-D-Pvt-Subnet-3	subnet-076ab4bede73a39a9	10.15.32.160/27	–
<input type="checkbox"/>	Team-D-Pub-Subnet-2	subnet-097d36c5a88e7499e	10.15.32.32/27	–
<input checked="" type="checkbox"/>	Team-D-Pvt-Subnet-2	subnet-00c0b5c3137dbca7a	10.15.32.128/27	–
<input type="checkbox"/>	Team-D-Pub-Subnet-3	subnet-04cac1b8f8d29fd3d	10.15.32.64/27	–

Finally we have two Route Tables (each with 3 subnets)

Route tables (3) [Info](#)

search: Team-D

<input type="checkbox"/>	Name	Route table ID	Explicit subnet associat...
<input type="checkbox"/>	Team-D-Pvt-RTB	rtb-09f9cee465488e9a1	3 subnets
<input type="checkbox"/>	–	rtb-07774796230288822	–
<input type="checkbox"/>	Team-D-Pub-RTB	rtb-05eeaf795a9933f6d	3 subnets