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

DevelopmentNetworkVPC

IPv4 CIDR block Info

- (•) IPv4 CIDR manual input
- ( ) IPAM-allocated IPv4 CIDR block

IPv4 CIDR

20.0.0.0/16

IPv6 CIDR block Info

- (•) No IPv6 CIDR block
- ( ) IPAM-allocated IPv6 CIDR block
- ( ) Amazon-provided IPv6 CIDR block
- ( ) IPv6 CIDR owned by me

Tenancy Info

Default

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	DevelopmentNetworkVPC	Remove

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

ProductionNetworkVPC

IPv4 CIDR block Info

- (•) IPv4 CIDR manual input
- ( ) IPAM-allocated IPv4 CIDR block

IPv4 CIDR

10.0.0.0/16

IPv6 CIDR block Info

- (•) No IPv6 CIDR block
- ( ) IPAM-allocated IPv6 CIDR block
- ( ) Amazon-provided IPv6 CIDR block
- ( ) IPv6 CIDR owned by me

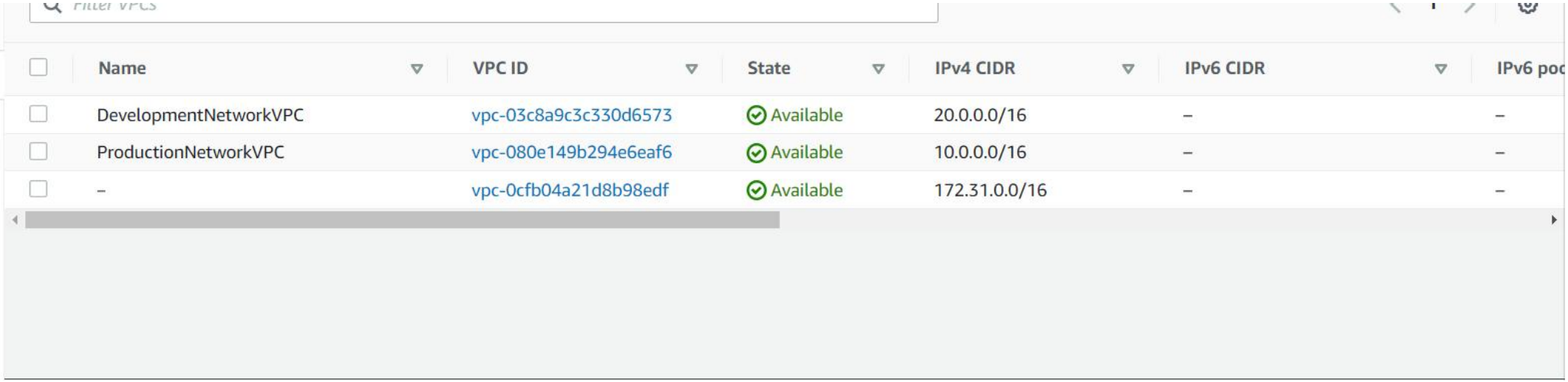
Tenancy Info

Default

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	ProductionNetworkVPC	Remove


Filter VPCs
Name
VPC ID
State
IPv4 CIDR
IPv6 CIDR
IPv6 poo
DevelopmentNetworkVPC
vpc-03c8a9c3c330d6573
Available
20.0.0.0/16
–
–
ProductionNetworkVPC
vpc-080e149b294e6eaf6
Available
10.0.0.0/16
–
–
–
vpc-0cfb04a21d8b98edf
Available
172.31.0.0/16
–
–

VPC ID

Create subnets in this VPC.

vpc-080e149b294e6eaf6 (ProductionNetworkVPC)

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.

app1

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.

No preference

IPv4 CIDR block Info

10.0.1.0/24

▼ **Tags - *optional***

Key Value - *optional*

Subnets (5) Info

Actions | Create subnet

Filter subnets

1

VPC: vpc-080e149b294e6eaf6 | Clear filters

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
dbcache	subnet-02d4e09dcecb72f3c	Available	vpc-080e149b294e6eaf6 | Pro…	10.0.3.0/24	–
app1	subnet-08eea64bdb902c8ce	Available	vpc-080e149b294e6eaf6 | Pro…	10.0.1.0/24	–
db	subnet-07b7658b9b24604a7	Available	vpc-080e149b294e6eaf6 | Pro…	10.0.4.0/24	–
web	subnet-03d73d46bad6096f3	Available	vpc-080e149b294e6eaf6 | Pro…	10.0.5.0/24	–
app2	subnet-07f39da3d64a2816c	Available	vpc-080e149b294e6eaf6 | Pro…	10.0.2.0/24	–

Internet gateway igw-06a9fc8acc3079267 successfully attached to vpc-080e149b294e6eaf6

VPC > Internet gateways > igw-06a9fc8acc3079267

igw-06a9fc8acc3079267 / igw

Actions

Details Info

Internet gateway ID	State	VPC ID	Owner
igw-06a9fc8acc3079267	Attached	vpc-080e149b294e6eaf6 | ProductionNetworkVPC	997980677439

Tags

Manage tags

Search tags

1

Key	Value
Name	igw

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.

publicRT

VPC
The VPC to use for this route table.

vpc-080e149b294e6eaf6 (ProductionNetworkVPC)

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	publicRT	Remove

Add new tag

You can add 49 more tags.

Cancel Create route table

VPC > Route tables > rtb-076e69abc5f7e2856 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/5)

Filter subnet associations

1

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
dbcache	subnet-02d4e09dcecb72f3c	10.0.3.0/24	–	Main (rtb-0ac4708a15032d431)
app1	subnet-08eea64bdb902c8ce	10.0.1.0/24	–	Main (rtb-0ac4708a15032d431)
db	subnet-07b7658b9b24604a7	10.0.4.0/24	–	Main (rtb-0ac4708a15032d431)
web	subnet-03d73d46bad6096f3	10.0.5.0/24	–	Main (rtb-0ac4708a15032d431)
app2	subnet-07f39da3d64a2816c	10.0.2.0/24	–	Main (rtb-0ac4708a15032d431)

Selected subnets

subnet-03d73d46bad6096f3 / web

Cancel Save associations

Route table settings

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

Private-RT

VPC
The VPC to use for this route table.

vpc-080e149b294e6eaf6 (ProductionNetworkVPC)

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	Private-RT	Remove

Add new tag

You can add 49 more tags.

Cancel Create route table

You have successfully updated subnet associations for rtb-07257903a47129422 / Private-RT.

Routes | Subnet associations | Edge associations | Route propagation | Tags

Explicit subnet associations (2)

Edit subnet associations

Find subnet association

1

Subnet ID	IPv4 CIDR	IPv6 CIDR
subnet-02d4e09dcecb72f3c / dbcache	10.0.3.0/24	–
subnet-08eea64bdb902c8ce / app1	10.0.1.0/24	–

Subnets without explicit associations (2)

Edit subnet associations

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

Find subnet association

1

Subnet ID	IPv4 CIDR	IPv6 CIDR
subnet-07b7658b9b24604a7 / db	10.0.4.0/24	–
subnet-07f39da3d64a2816c / app2	10.0.2.0/24	–

Elastic IP address 18.189.15.37 (eipalloc-063caad5c49649850) allocated.

VPC > NAT gateways > Create NAT gateway

Create NAT gateway Info

A highly available, managed Network Address Translation (NAT) service that instances in private subnets can use to connect to services in other VPCs, on-premises networks, or the internet.

NAT gateway settings

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

NATGW

The name can be up to 256 characters long.

Subnet
Select a subnet in which to create the NAT gateway.

subnet-03d73d46bad6096f3 (web)

Connectivity type
Select a connectivity type for the NAT gateway.

- (•) Public
- ( ) Private

Elastic IP allocation ID Info
Assign an Elastic IP address to the NAT gateway.

eipalloc-063caad5c49649850 | Allocate Elastic IP

VPC > Route tables > rtb-07257903a47129422 > Edit routes

Edit routes

Destination	Target	Status	Propagated	
10.0.0.0/16	local	Active	No	
0.0.0.0/0	nat-016fd9ac21fd6aab9	–	No	Remove

Add route

Cancel | Preview | Save changes

VPC > Route tables > rtb-016e2b006efa0fb00 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (2/5)

Filter subnet associations

1

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
dbcache	subnet-02d4e09dcecb72f3c	10.0.3.0/24	–	rtb-07257903a47129422 / Private-RT
app1	subnet-08eea64bdb902c8ce	10.0.1.0/24	–	rtb-07257903a47129422 / Private-RT
db	subnet-07b7658b9b24604a7	10.0.4.0/24	–	Main (rtb-0ac4708a15032d431)
web	subnet-03d73d46bad6096f3	10.0.5.0/24	–	rtb-076e69abc5f7e2856 / publicRT
app2	subnet-07f39da3d64a2816c	10.0.2.0/24	–	Main (rtb-0ac4708a15032d431)

Selected subnets

subnet-07f39da3d64a2816c / app2 × subnet-07b7658b9b24604a7 / db ×

Cancel Save associations

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 (i) 1 Launch into Auto Scaling Group (i)

Purchasing option (i) ☐ Request Spot instances

Network (i) vpc-080e149b294e6eaf6 | ProductionNetworkVPC Create new VPC

Subnet (i) subnet-08eea64bdb902c8ce | app1 | us-east-2a Create new subnet
251 IP Addresses available

Auto-assign Public IP (i) Use subnet setting (Disable)

Hostname type (i) Use subnet setting (IP name)

DNS Hostname (i)
☑ Enable IP name IPv4 (A record) DNS requests
☑ Enable resource-based IPv4 (A record) DNS requests
☐ Enable resource-based IPv6 (AAAA record) DNS requests

Placement group (i) ☐ Add instance to placement group

Capacity Reservation (i) Open

Domain join directory (i) No directory Create new directory

Cancel | Previous | **Review and Launch** | Next: Add Storage

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 name: VPC

Description: VPC created 2022-02-18T17:19:29.645+05:30

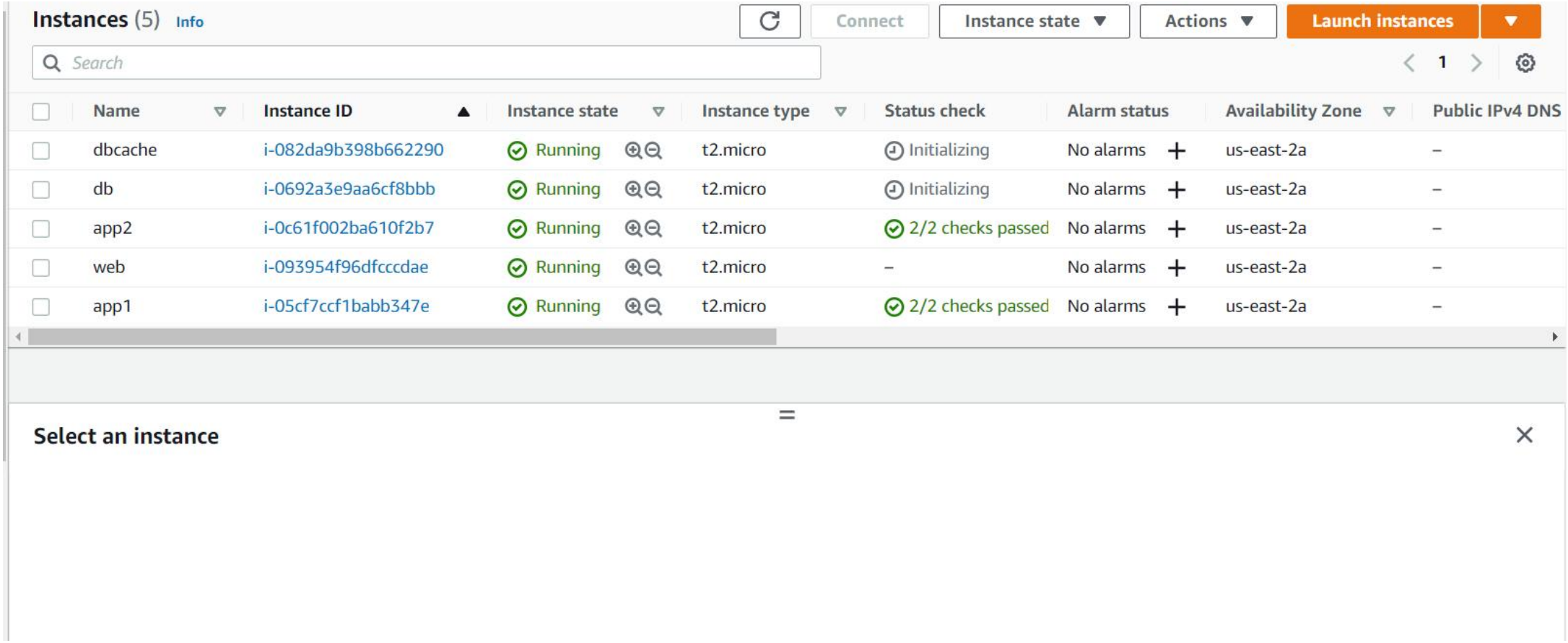
Type	Protocol	Port Range	Source		Description
SSH	TCP	22	Custom	0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom	0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop

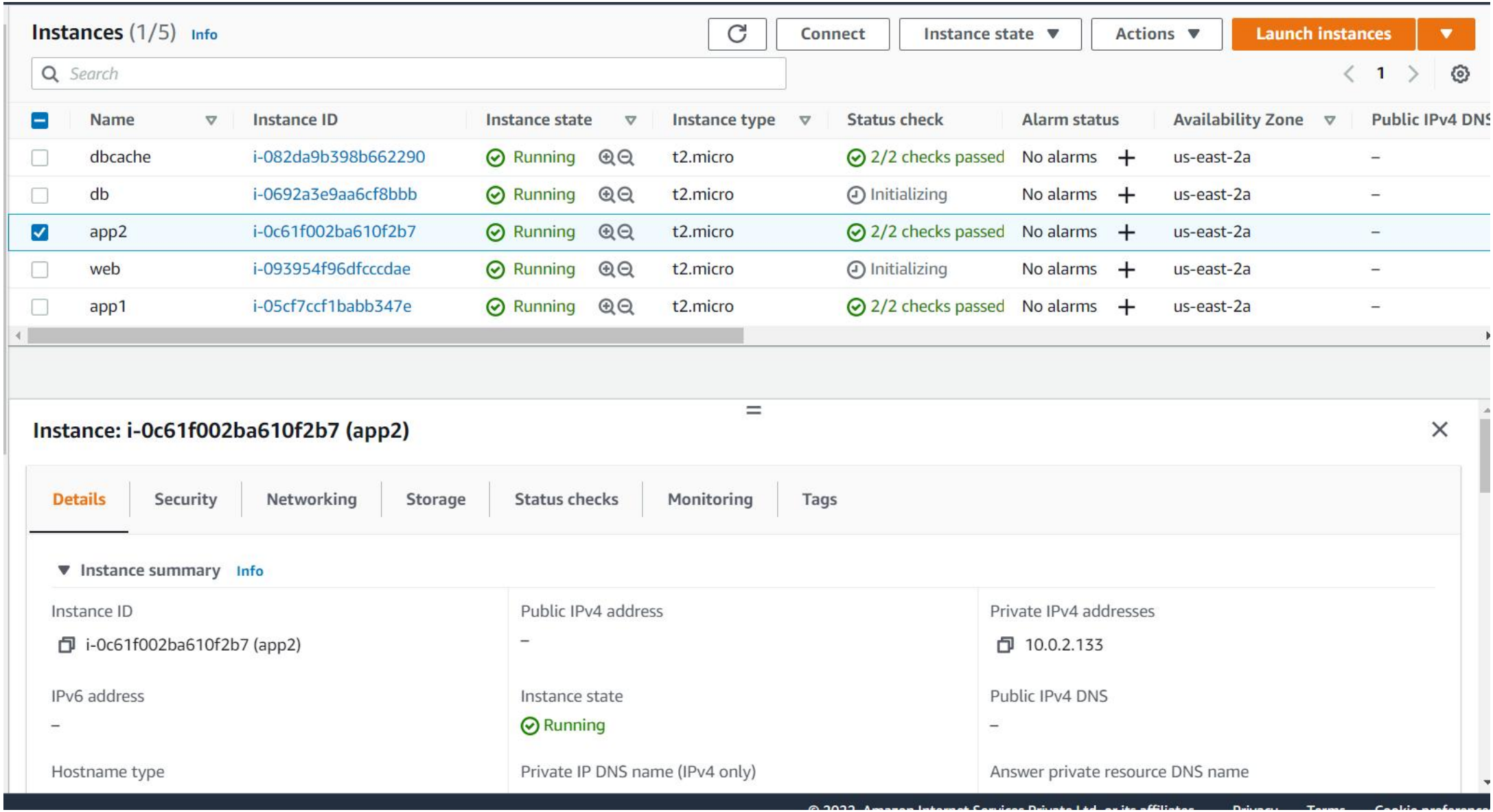
Add Rule

Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel | Previous | Review and Launch


Instances (5) Info
Connect
Instance state
Actions
Launch instances
Search
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
dbcache i-082da9b398b662290 Running t2.micro Initializing No alarms us-east-2a –
db i-0692a3e9aa6cf8bbb Running t2.micro Initializing No alarms us-east-2a –
app2 i-0c61f002ba610f2b7 Running t2.micro 2/2 checks passed No alarms us-east-2a –
web i-093954f96dfcccdae Running t2.micro – No alarms us-east-2a –
app1 i-05cf7ccf1babb347e Running t2.micro 2/2 checks passed No alarms us-east-2a –
Select an instance


Instances (1/5) Info
Connect
Instance state
Actions
Launch instances
Search
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
dbcache i-082da9b398b662290 Running t2.micro 2/2 checks passed No alarms us-east-2a –
db i-0692a3e9aa6cf8bbb Running t2.micro Initializing No alarms us-east-2a –
app2 i-0c61f002ba610f2b7 Running t2.micro 2/2 checks passed No alarms us-east-2a –
web i-093954f96dfcccdae Running t2.micro Initializing No alarms us-east-2a –
app1 i-05cf7ccf1babb347e Running t2.micro 2/2 checks passed No alarms us-east-2a –
Instance: i-0c61f002ba610f2b7 (app2)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-0c61f002ba610f2b7 (app2)
Public IPv4 address
–
Private IPv4 addresses
10.0.2.133
IPv6 address
–
Instance state
Running
Public IPv4 DNS
–
Hostname type
Private IP DNS name (IPv4 only)
Answer private resource DNS name

```
PZmv0/0CgYBUAuWhA3Iip7n5UEIT65AChfqCCGV4QfrMc460hZUDd7yk67hBOka+
CP3awrClXtBH6D8AfEnY8ivsQlqj9s4+8loybKx2nSqsqQdME3aOPkVphCkSf6uf
A0jZRAsTmFnytZcCWZ9B6bbeQ6N0rg1B12fMiPiMHstfY1QuoivSHA==
-----END RSA PRIVATE KEY-----
~
~
~
~
~
"virginia.pem" [New] 27L, 1679B written
[ec2-user@ip-10-0-5-132 ~]$ chmod 400 virginia.pem
[ec2-user@ip-10-0-5-132 ~]$ ssh -i virginia.pem ec2-user@10.0.2.247
The authenticity of host '10.0.2.247 (10.0.2.247)' can't be established.
ECDSA key fingerprint is SHA256:28URdi1yev1uaX1LveHPK6iPtqoc8MJVeeRSIhuut2Q.
ECDSA key fingerprint is MD5:03:7c:7b:a8:75:82:ce:e9:00:bf:1e:83:98:65:63:c6.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.0.2.247' (ECDSA) to the list of known hosts.

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-2-247 ~]$ ping google.com
PING google.com (142.251.111.139) 56(84) bytes of data.
```

The following internet gateway was created: igw-0a34688e445c1b8ac - IGWDevlopmntNetworkVPC. You can now attach to a VPC to enable the VPC to communicate with the internet.

Attach to a VPC

VPC > Internet gateways > igw-0a34688e445c1b8ac

igw-0a34688e445c1b8ac / IGWDevlopmntNetworkVPC

Actions

Details Info

Internet gateway ID	State	VPC ID	Owner
igw-0a34688e445c1b8ac	Detached	-	988925067592

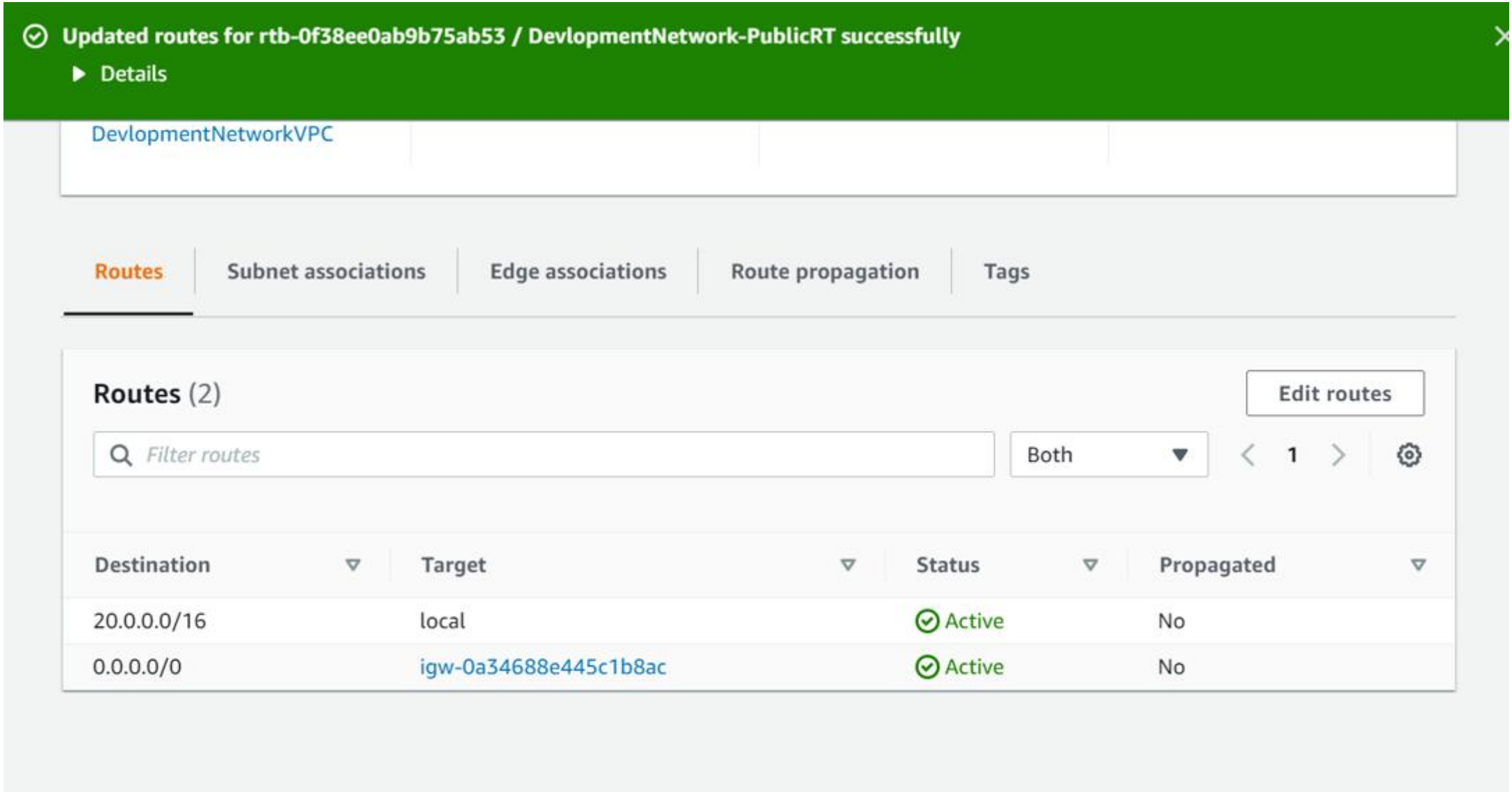
Tags

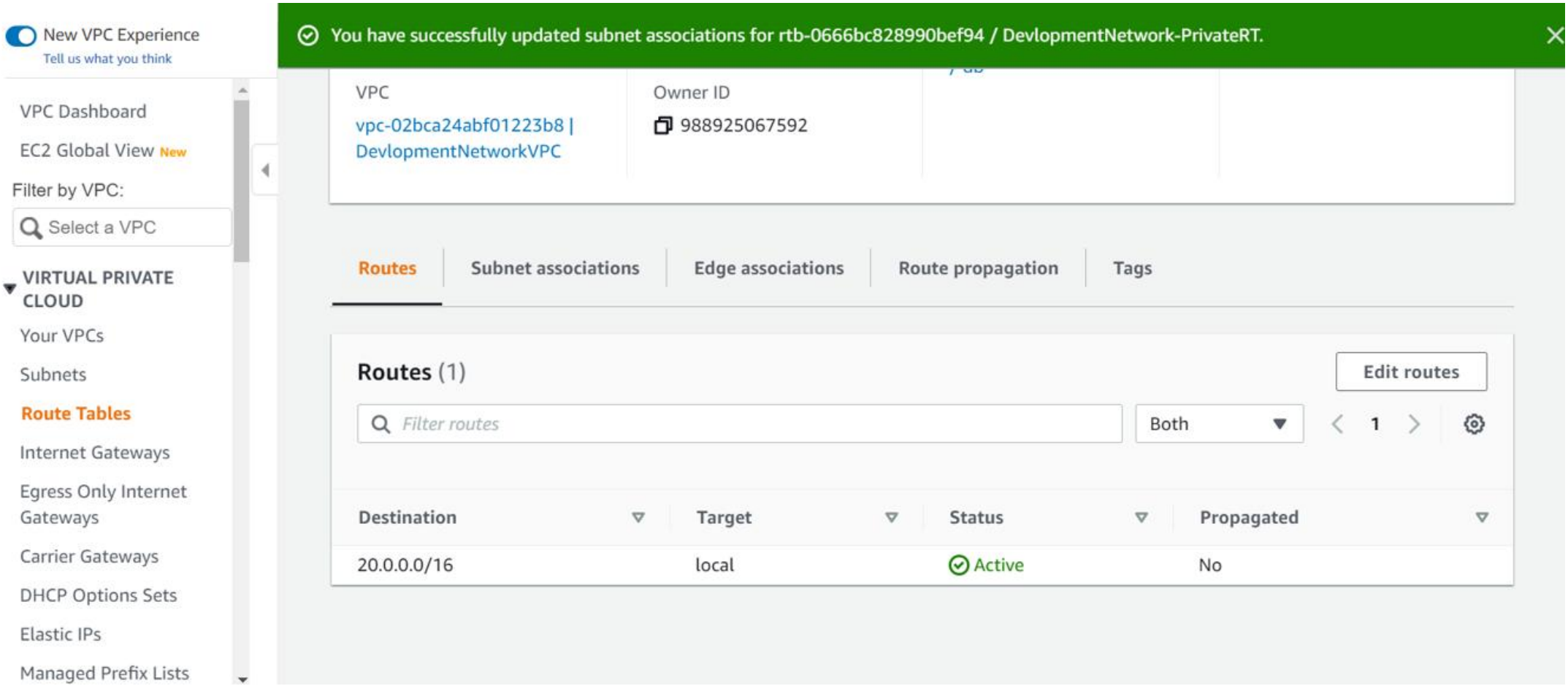
Manage tags

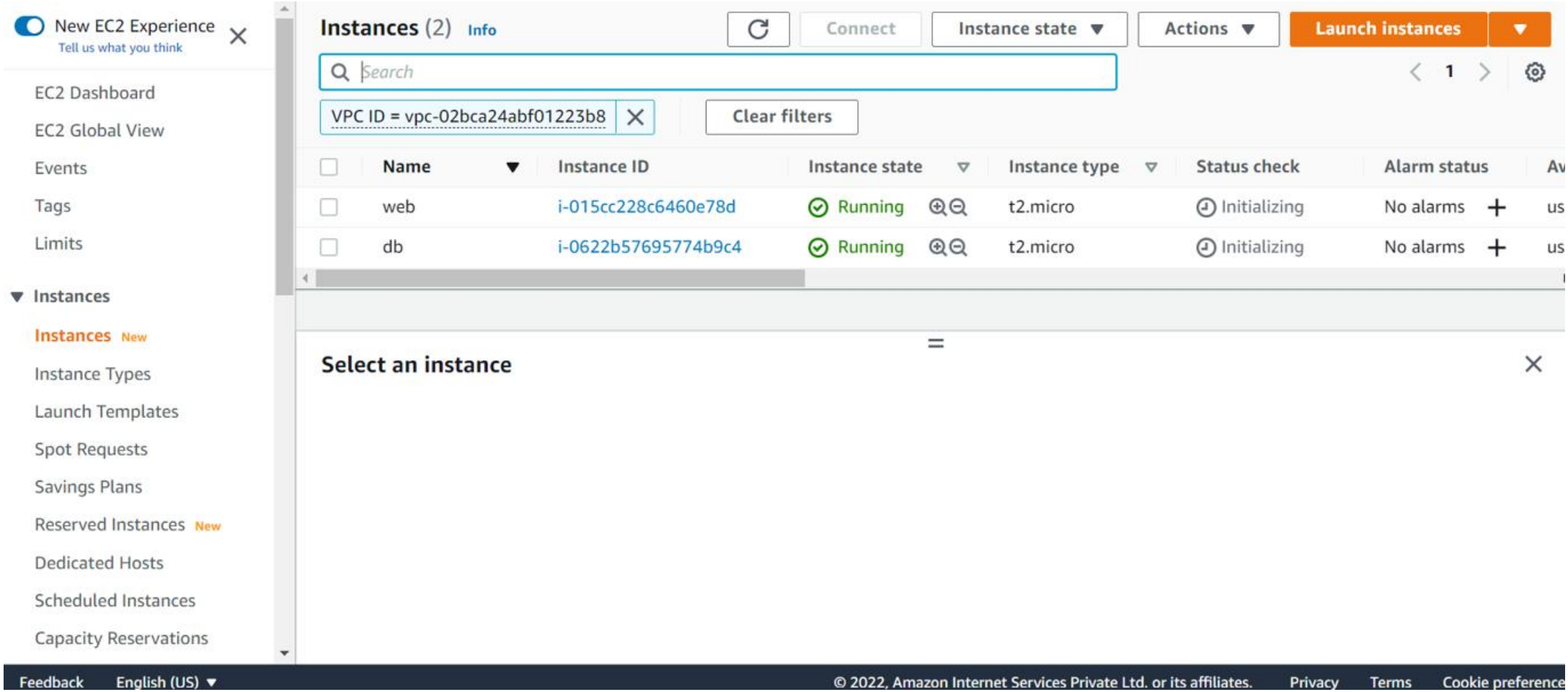
Search tags

1

Key	Value


Updated routes for rtb-0f38ee0ab9b75ab53 / DevlopmentNetwork-PublicRT successfully
Details
DevlopmentNetworkVPC
Routes
Subnet associations
Edge associations
Route propagation
Tags
Routes (2)
Edit routes
Filter routes
Both
1
Destination
Target
Status
Propagated
20.0.0.0/16
local
Active
No
0.0.0.0/0
igw-0a34688e445c1b8ac
Active
No


New VPC Experience
Tell us what you think
You have successfully updated subnet associations for rtb-0666bc828990bef94 / DevlopmentNetwork-PrivateRT.
VPC Dashboard
EC2 Global View New
Filter by VPC:
Select a VPC
VIRTUAL PRIVATE CLOUD
Your VPCs
Subnets
Route Tables
Internet Gateways
Egress Only Internet Gateways
Carrier Gateways
DHCP Options Sets
Elastic IPs
Managed Prefix Lists
VPC
vpc-02bca24abf01223b8 | DevlopmentNetworkVPC
Owner ID
988925067592
Routes
Subnet associations
Edge associations
Route propagation
Tags
Routes (1)
Edit routes
Filter routes
Both
1
Destination
Target
Status
Propagated
20.0.0.0/16
local
Active
No


New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Instances (2) Info
Connect
Instance state
Actions
Launch instances
Search
1
VPC ID = vpc-02bca24abf01223b8
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
web
i-015cc228c6460e78d
Running
t2.micro
Initializing
No alarms
db
i-0622b57695774b9c4
Running
t2.micro
Initializing
No alarms
Select an instance
Feedback
English (US)
© 2022, Amazon Internet Services Private Ltd. or its affiliates.
Privacy
Terms
Cookie preference

```
PZmv0/0CgYBUAuWhA3Iip7n5UEIT65AChfqCCGV4QfrMc460hZUDd7yk67hBOka+
CP3awrClXtBH6D8AfEnY8ivsQlqj9s4+8loybKx2nSqsqQdME3aOPkVphCkSf6uf
A0jZRAsTmFnytZcCWZ9B6bbeQ6N0rg1B12fMiPiMHstfY1QuoivSHA==
-----END RSA PRIVATE KEY-----
~
~
~
~
~
"virginia.pem" [New] 27L, 1679B written
[ec2-user@ip-20-0-1-209 ~]$ chmod 400 virginia.pem
[ec2-user@ip-20-0-1-209 ~]$ ssh -i virginia.pem ec2-user@20.0.2.13
The authenticity of host '20.0.2.13 (20.0.2.13)' can't be established.
ECDSA key fingerprint is SHA256:oF2I0uYKIGA4RyLQuUmiRXtYXIivIbtYFPkt3a6Su58.
ECDSA key fingerprint is MD5:c3:cd:b3:c2:86:c6:58:21:c4:dc:5d:7d:f9:f0:f6:46.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '20.0.2.13' (ECDSA) to the list of known hosts.

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-20-0-2-13 ~]$ ping google.com
PING google.com (142.251.111.138) 56(84) bytes of data.
```

Peering connection settings

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

Prod-Dev-VPC

Select a local VPC to peer with

VPC ID (Requester)

vpc-02278544a938da208 (ProductionNetworkVPC)

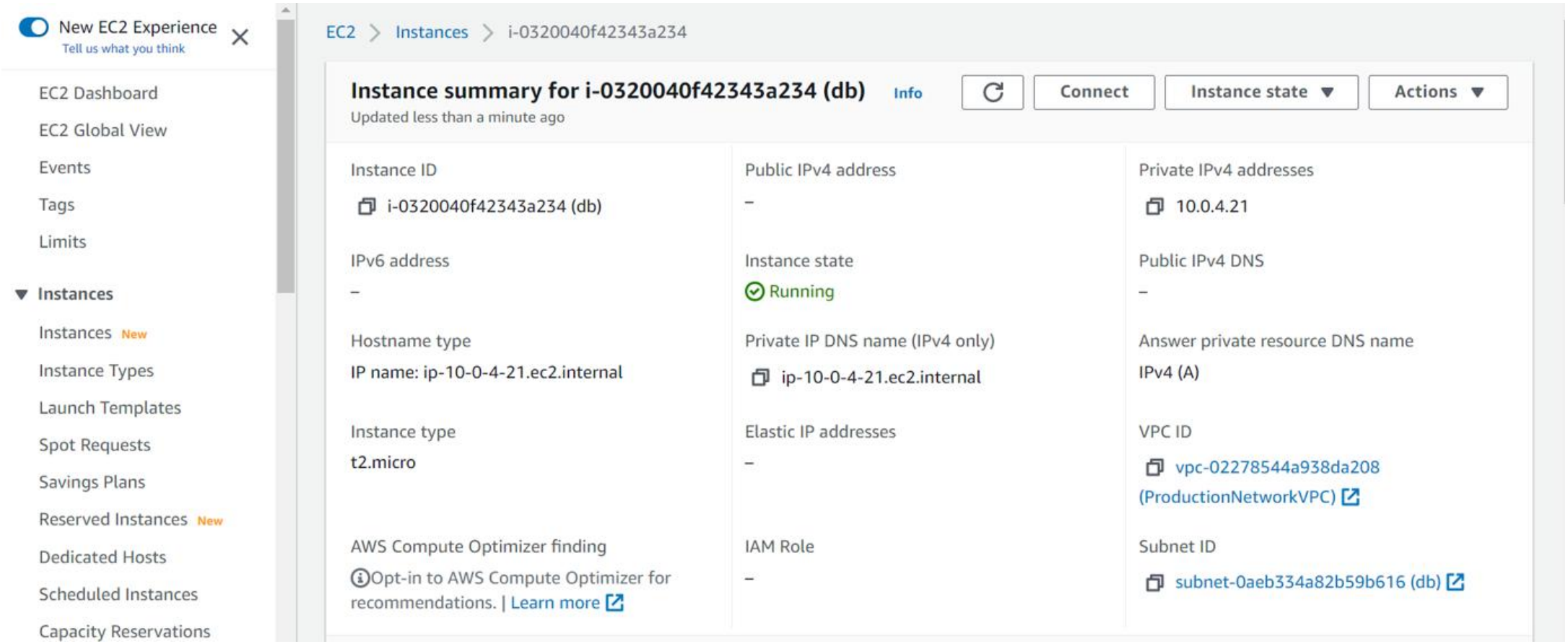
VPC CIDRs for vpc-02278544a938da208 (ProductionNetworkVPC)

CIDR	Status	Status reason
10.0.0.0/16	Associated	-

Select another VPC to peer with

Account

- (●) My account
- ( ) Another account


New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
EC2 > Instances > i-0320040f42343a234
Instance summary for i-0320040f42343a234 (db) Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-0320040f42343a234 (db)
IPv6 address
–
Hostname type
IP name: ip-10-0-4-21.ec2.internal
Instance type
t2.micro
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more
Public IPv4 address
–
Instance state
Running
Private IP DNS name (IPv4 only)
ip-10-0-4-21.ec2.internal
Elastic IP addresses
–
IAM Role
–
Private IPv4 addresses
10.0.4.21
Public IPv4 DNS
–
Answer private resource DNS name
IPv4 (A)
VPC ID
vpc-02278544a938da208 (ProductionNetworkVPC)
Subnet ID
subnet-0aeb334a82b59b616 (db)

```
[ec2-user@ip-20-0-2-13 ~]$ chmod 400 virginia.pem
[ec2-user@ip-20-0-2-13 ~]$ ssh -i virginia.pem ec2-user@10.0.4.21
```

VPC > Route tables > rtb-0666bc828990bef94 > Edit routes

Edit routes

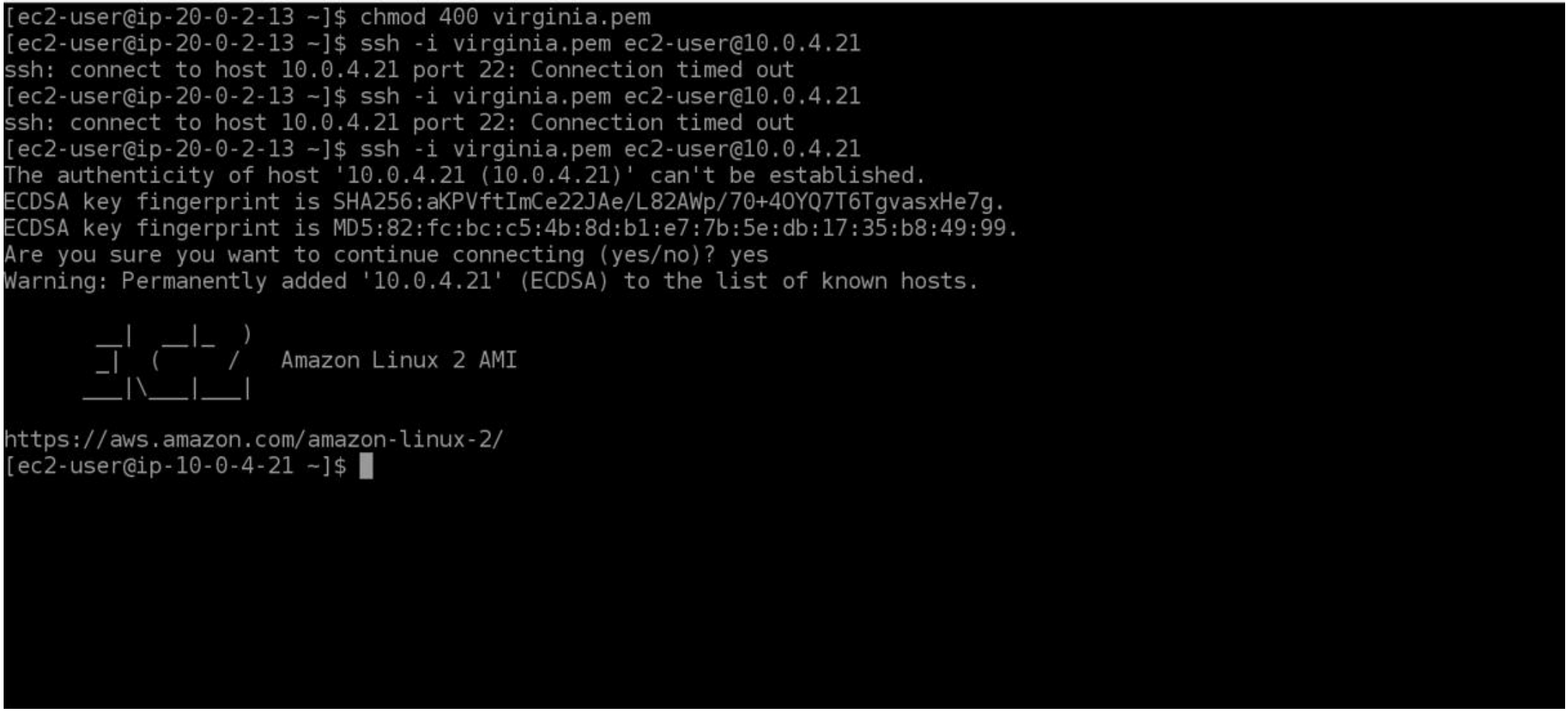
Destination	Target	Status	Propagated	
20.0.0.0/16	local	Active	No	
10.0.0.0/16	pcx-	–	No	Remove

pcx-0ba11f262f724b4c4 (Prod-Dev-VPC)

pcx-0ba11f262f724b4c4 (Prod-Dev-VPC)

Add route

Cancel Preview Save changes


[ec2-user@ip-20-0-2-13 ~]$ chmod 400 virginia.pem
[ec2-user@ip-20-0-2-13 ~]$ ssh -i virginia.pem ec2-user@10.0.4.21
ssh: connect to host 10.0.4.21 port 22: Connection timed out
[ec2-user@ip-20-0-2-13 ~]$ ssh -i virginia.pem ec2-user@10.0.4.21
ssh: connect to host 10.0.4.21 port 22: Connection timed out
[ec2-user@ip-20-0-2-13 ~]$ ssh -i virginia.pem ec2-user@10.0.4.21
The authenticity of host '10.0.4.21 (10.0.4.21)' can't be established.
ECDSA key fingerprint is SHA256:aKPVftImCe22JAe/L82AWp/70+4OYQ7T6TgvasxHe7g.
ECDSA key fingerprint is MD5:82:fc:bc:c5:4b:8d:b1:e7:7b:5e:db:17:35:b8:49:99.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.0.4.21' (ECDSA) to the list of known hosts.
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-4-21 ~]$