

Task 1: VPC

The screenshot shows the AWS VPC console interface. At the top, a green notification bar states: "You successfully created vpc-057ac99c45a14da30 / my-vpc-1". The breadcrumb navigation indicates the path: VPC > Your VPCs > vpc-057ac99c45a14da30. The main heading is "vpc-057ac99c45a14da30 / my-vpc-1".

The "Details" tab is selected, displaying the following information:

Property	Value
VPC ID	vpc-057ac99c45a14da30
State	Available
Tenancy	Default
DHCP option set	dopt-0abfa0b72ca455e84
Default VPC	No
Network Address Usage metrics	Disabled
DNS hostnames	Disabled
DNS resolution	Enabled
Main route table	rtb-085edb4e420297ec1
Main network ACL	acl-06459215c5e477273
IPv4 CIDR	10.10.100.0/23
IPv6 pool	-
Owner ID	970547351397

Below the details, there are tabs for "Resource map", "CIDRs", "Flow logs", "Tags", and "Integrations". The "Resource map" tab is currently active.

The screenshot shows the AWS VPC console interface. At the top, a green notification bar states: "You have successfully created 1 subnet: subnet-031d02acac91bd51". The breadcrumb navigation indicates the path: subnets | VPC Console > subnet-031d02acac91bd51.

The main heading is "Subnets (1) Info". Below this, there is a search bar and a filter input field containing "Subnet ID : subnet-031d02acac91bd51".

The table below lists the subnets:

Name	Subnet ID	State	VPC	IPv4 CIDR
my-vpc-1-subnet-1	subnet-031d02acac91bd51	Available	vpc-057ac99c45a14da30 my...	10.10.100.0/28

Below the table, there is a "Select a subnet" section with a search bar and a list of subnets.

MIU Global Online Education : x SubnetDetails | VPC Console x ChatGPT x (21) AWS VPC Beginner to Pro x +

us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#SubnetDetails:subnetId=subnet-031d02acacf91bd51

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VPC dashboard x

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subnets > subnet-031d02acacf91bd51

subnet-031d02acacf91bd51 / my-vpc-1-subnet-1

Actions

Details

Subnet ID subnet-031d02acacf91bd51	Subnet ARN arn:aws:ec2:us-east-1:970547351397:subnet/subnet-031d02acacf91bd51	State Available	IPv4 CIDR 10.10.100.0/28
Available IPv4 addresses 11	IPv6 CIDR -	IPv6 CIDR association ID -	Availability Zone us-east-1a
Availability Zone ID use1-az1	Network border group us-east-1	VPC vpc-057ac99c45a14da30 my-vpc-1	Route table -
Network ACL -	Default subnet No	Auto-assign public IPv4 address No	Auto-assign IPv6 address No
Auto-assign customer-owned IPv4 address No	Customer-owned IPv4 pool -	Outpost ID -	IPv4 CIDR reservations -
IPv6 CIDR reservations -	IPv6-only No	Hostname type IP name	Resource name DNS A record Disabled
Resource name DNS AAAA record Disabled	DNS64	Owner 970547351397	

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us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#InternetGateway:internetGatewayId=igw-039a83fd0e71feb8b

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Internet gateways > igw-039a83fd0e71feb8b

igw-039a83fd0e71feb8b / my-vpc-internet-gateway

Actions

Internet gateway igw-039a83fd0e71feb8b successfully attached to vpc-057ac99c45a14da30

Notifications 0 0 2 0 0 0

Details Info

Internet gateway ID igw-039a83fd0e71feb8b	State Attached	VPC ID vpc-057ac99c45a14da30 my-vpc-1	Owner 970547351397
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Tags

Search tags

Manage tags

Key	Value
Name	my-vpc-internet-gateway

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#VpcDetailsVpcId=vpc-0e9c9efe11980a61e

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You successfully created vpc-0e9c9efe11980a61e / my-vpc-2

vpc-0e9c9efe11980a61e / my-vpc-2

Details

VPC ID vpc-0e9c9efe11980a61e	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-0abfa0e72ca455e84	Main route table rtb-0e926f7953320f9ed	Main network ACL acl-09659a76d4c8bbb6d
Default VPC No	IPv4 CIDR 10.20.0.0/23	IPv6 pool -	IPv6 CIDR (Network border group) -
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 970547351397	

Resource map

VPC [Show details](#)
Your AWS virtual network
my-vpc-2

Subnets (0)
Subnets within this VPC

Route tables (1)
Route network traffic to resources
rtb-0e926f7953320f9ed

Network connections (0)
Connections to other networks

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us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#subnets:subnetId=subnet-0651f2e3b51cdfcab

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You have successfully created 1 subnet: subnet-0651f2e3b51cdfcab

Subnets (1)

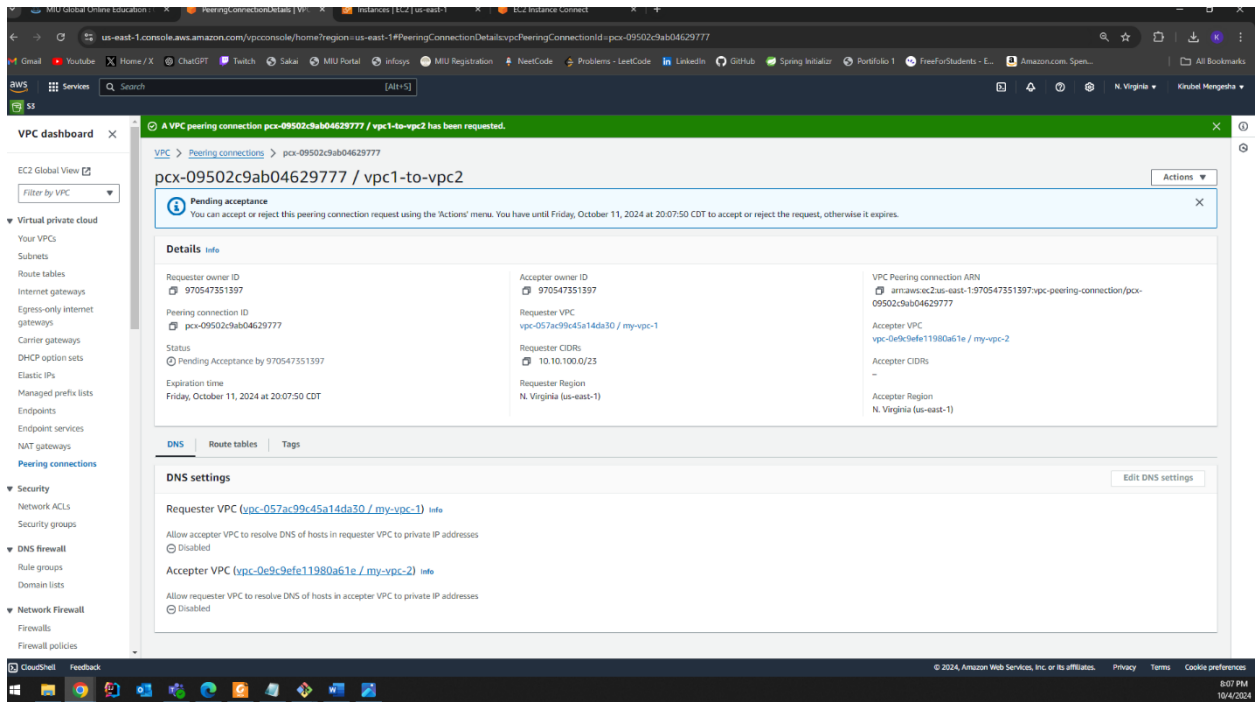
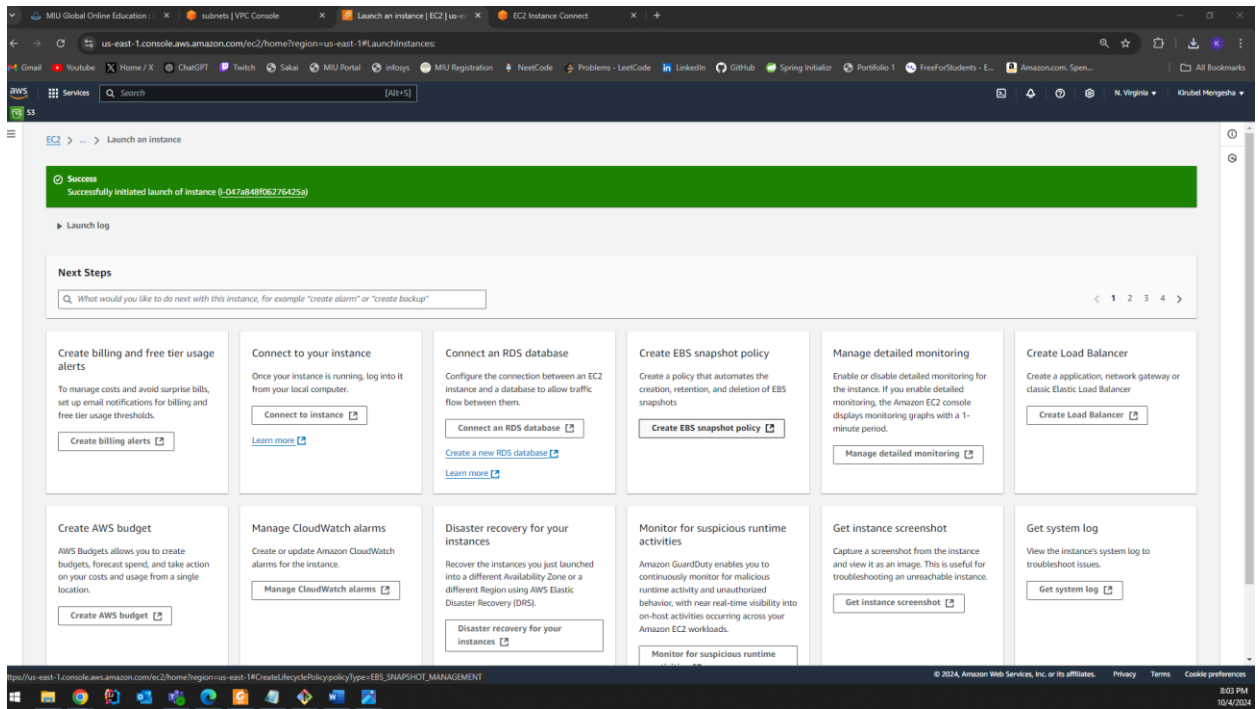
[Find resources by attribute or tag](#)

Subnet ID: subnet-0651f2e3b51cdfcab

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	IPv6 CIDR association ID	Available IPv4 addresses
my-vpc-2-subnet-1	subnet-0651f2e3b51cdfcab	Available	vpc-0e9c9efe11980a61e my-v...	10.20.0.64/26	-	-	59

Select a subnet

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us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#PeeringConnectionDetails:VpcPeeringConnectionId=pcx-09502c9ab04629777

Services Search [Alt+S]

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Your VPC peering connection (pcx-09502c9ab04629777) (vpc1-to-vpc2) has been established.

To send and receive traffic across this VPC peering connection, you must add a route to the peered VPC in one or more of your VPC route tables. [View](#)

pcx-09502c9ab04629777 / vpc1-to-vpc2 [Actions](#)

Details [info](#)

Requester owner ID 970547351397	Accepter owner ID 970547351397	VPC Peering connection ARN arn:aws:ec2:us-east-1:970547351397:vpc-peering-connection/pcx-09502c9ab04629777
Peering connection ID pcx-09502c9ab04629777	Requester VPC vpc-057ac99c45a14da30 / my-vpc-1	Accepter VPC vpc-0e9c9efc11980a61e / my-vpc-2
Status Active	Requester CIDRs 10.10.100.0/23	Accepter CIDRs 10.20.0.0/23
Expiration time -	Requester Region N. Virginia (us-east-1)	Accepter Region N. Virginia (us-east-1)

DNS | **Route tables** | **Tags**

DNS settings [Edit DNS settings](#)

Requester VPC ([vpc-057ac99c45a14da30 / my-vpc-1](#)) [info](#)

Allow accepter VPC to resolve DNS of hosts in requester VPC to private IP addresses
☐ Disabled

Accepter VPC ([vpc-0e9c9efc11980a61e / my-vpc-2](#)) [info](#)

Allow requester VPC to resolve DNS of hosts in accepter VPC to private IP addresses
☐ Disabled

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us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-085edb4e420297ec1

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Updated routes for rtb-085edb4e420297ec1 successfully

rtb-085edb4e420297ec1 [Actions](#)

Details [info](#)

Route table ID rtb-085edb4e420297ec1	Main <input checked="" type="checkbox"/> Yes	Explicit subnet associations -	Edge associations -
VPC vpc-057ac99c45a14da30 / my-vpc-1	Owner ID 970547351397		

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

Routes (3) [Filter routes](#) [Both](#) [Edit routes](#)

Destination	Target	Status	Propagated
0.0.0.0/0	igw-039a83f0de71f0ab0	Active	No
10.10.100.0/23	local	Active	No
10.20.0.0/23	pcx-09502c9ab04629777	Active	No

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us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-0e926f7953320f9ed

Updated routes for rtb-0e926f7953320f9ed successfully

VPC dashboard

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rtb-0e926f7953320f9ed

Details info

Route table ID rtb-0e926f7953320f9ed	Main Yes	Explicit subnet associations -	Edge associations -
VPC vpc-0e9c9efe11980a61e / my-vpc-2	Owner ID 970547351397		

Routes (2)

Destination	Target	Status	Propagated
10.10.100.0/23	pcx-09502c9ab04629777	Active	No
10.20.0.0/23	local	Active	No

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#PeeringConnectionDetails:VpcPeeringConnectionId=pcx-09502c9ab04629777

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pcx-09502c9ab04629777 / vpc1-to-vpc2

Details info

Requester owner ID 970547351397	Accepter owner ID 970547351397	VPC Peering connection ARN arn:aws:ec2:us-east-1:970547351397:vpc-peering-connection/pcx-09502c9ab04629777
Peering connection ID pcx-09502c9ab04629777	Requester VPC vpc-057ac99c45a14da30 / my-vpc-1	Accepter VPC vpc-0e9c9efe11980a61e / my-vpc-2
Status Active	Requester CIDR 10.10.100.0/23	Accepter CIDR 10.20.0.0/23
Expiration time -	Requester Region N. Virginia (us-east-1)	Accepter Region N. Virginia (us-east-1)

Route tables info

This VPC peering connection is referenced in a route in the following route tables.

Route table ID	VPC ID	Main	Associated with
rtb-085c9db4e420297ec1	vpc-057ac99c45a14da30 / my-vpc-1	Yes	0 subnets
rtb-0e926f7953320f9ed	vpc-0e9c9efe11980a61e / my-vpc-2	Yes	0 subnets

```
ec2-user@ip-10-10-100-12~  
k1rubb@kir3verse MING64 ~  
$ ssh -i ~/Downloads/new-key-for-computer-server-1.pem ec2-user@44.200.160.158  
#####  
Amazon Linux 2023  
#####  
https://aws.amazon.com/linux/amazon-linux-2023  
#####  
Last login: Fri Oct 4 23:07:40 2024 from 69.18.37.194  
[ec2-user@ip-10-10-100-12 ~]$
```

```
k1rubb@kir3verse MING64 /  
$ scp -i ~/Downloads/new-key-for-computer-server-1.pem ~/Downloads/new-key-for-compute-server-2.pem ec2-user@44.200.160.158:/home/ec2-user/  
new-key-for-compute-server-2.pem  
k1rubb@kir3verse MING64 /  
$ |
```

```
[ec2-user@ip-10-10-100-12 ~]$ chmod 400 /home/ec2-user/new-key-for-compute-server-2.pem  
[ec2-user@ip-10-10-100-12 ~]$ ssh -i /home/ec2-user/new-key-for-compute-server-2.pem ec2-user@10.20.0.111  
#####  
Amazon Linux 2023  
#####  
https://aws.amazon.com/linux/amazon-linux-2023  
#####  
[ec2-user@ip-10-20-0-111 ~]$
```