

Task day 2 (AWS)

1&2) Create VPC, private and public subnet

The screenshot shows the AWS VPC Management Console. A green notification banner at the top states: "You have successfully created 1 subnet: subnet-00c74ceb799a815d0". The left sidebar shows the navigation menu with "Subnets" selected. The main content area displays a table of subnets. The table has columns: Name, Subnet ID, State, VPC, and IPv4 CIDR. The subnets listed are:

Name	Subnet ID	State	VPC	IPv4 CIDR
public-sub	subnet-003d020f337f8460d	Available	vpc-07c42970d07a66f5a my...	10.0.1.0/24
-	subnet-e2c45989	Available	vpc-6d3b4e06	172.31.0.0/20
-	subnet-69c4f725	Available	vpc-6d3b4e06	172.31.32.0/20
private-sub	subnet-00c74ceb799a815d0	Available	vpc-07c42970d07a66f5a my...	10.0.2.0/24
-	subnet-43d3183e	Available	vpc-6d3b4e06	172.31.16.0/20

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

The screenshot shows the AWS VPC Management Console. A green notification banner at the top states: "Subnet (subnet-00c74ceb799a815d0) has been successfully associated with route table (rtb-065a47a765ac20d9e)". The left sidebar shows the navigation menu with "Subnets" selected. The main content area displays a table of subnets. The table has columns: Name, Subnet ID, State, VPC, and IPv4 CIDR. The subnets listed are:

Name	Subnet ID	State	VPC	IPv4 CIDR
public-sub	subnet-003d020f337f8460d	Available	vpc-07c42970d07a66f5a my...	10.0.1.0/24
-	subnet-e2c45989	Available	vpc-6d3b4e06	172.31.0.0/20
-	subnet-69c4f725	Available	vpc-6d3b4e06	172.31.32.0/20
private-sub	subnet-00c74ceb799a815d0	Available	vpc-07c42970d07a66f5a my...	10.0.2.0/24
-	subnet-43d3183e	Available	vpc-6d3b4e06	172.31.16.0/20

Below the table, there is a section titled "Subnets: subnet-003d020f337f8460d, subnet-00c74ceb799a815d0" with a search bar and a list of subnets.

3) Create 2 instances (public & private)

Instances | EC2 Management Console

Subnets | VPC Management Console

Live session 27 | Sprints

what is IPv4 CIDR block - Google

(50) How to Create a NAT Gateway

https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:

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Services

New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances New

Dedicated Hosts

Capacity Reservations

Images

AMIs

Instances (2) Info

Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
public-instance	i-0b55c7d18a2c02df3	Running	t2.micro	2/2 checks passed	No alarms	us-east-2c
private-instance	i-0f251ac8b3a351606	Running	t2.micro	2/2 checks passed	No alarms	us-east-2c

Select an instance above

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4) Create IGW,RT,NAT GW

VPC Management Console

Live session 27 | Sprints

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(50) How to Create a NAT Gateway

https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#NatGatewayDetails:natGatewayId=nat-07cd8584b72b03594

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Services

New VPC Experience

Your VPCs

Subnets

Route Tables New

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways

Peering Connections New

SECURITY

Network ACLs

Security Groups

REACHABILITY

NAT gateway nat-07cd8584b72b03594 | nat-getway was created successfully.

VPC > NAT gateways > nat-07cd8584b72b03594

nat-07cd8584b72b03594 / nat-getway

Delete

Details Info

NAT gateway ID	nat-07cd8584b72b03594	Connectivity type	Public	State	Pending	State message	-
Elastic IP address	-	Private IP address	-	Network interface ID	-	VPC	vpc-07c42970d07a66f5a / my-vpc(1)
Subnet	subnet-003d020f337f8460d / public-sub	Created	2021/09/27 17:13 GMT+2	Deleted	-		

Monitoring Tags

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VC Management Console x Live session 27 | Sprints x what is IPv4 CIDR block - Google x (50) How to Create a NAT Gatew x +

← → ↻ 🔒 https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#InternetGatewayinternetGatewayId=igw-04a3f70b89589c909 ☆

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New VPC Experience Tell us what you think

Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables **New**

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways

Peering

Connections **New**

The following internet gateway was created: igw-04a3f70b89589c909. You can now attach to a VPC to enable the VPC to communicate with the internet. **Attach to a VPC**

VPC > Internet gateways > igw-04a3f70b89589c909

igw-04a3f70b89589c909 / my-int-getway

Actions

Details info

Internet gateway ID	igw-04a3f70b89589c909	State	Detached	VPC ID	-	Owner	669600377312
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Tags Manage tags

Search tags

Key	Value
Name	my-int-getway

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Instances | EC2 Management Console x Route tables | VPC Management x Live session 27 | Sprints x what is IPv4 CIDR block - Google x (50) How to Create a NAT Gatew x +

← → ↻ 🔒 https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#RouteTables: ☆

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New VPC Experience Tell us what you think

VPC Dashboard

EC2 Global View **New**

Filter by VPC:

Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables **New**

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

Route tables (4) Info Create route table

Filter route tables

	Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC
<input type="checkbox"/>	public-route	rtb-0df1ed8b5a6061193	-	-	No	vpc-07c42970d07a66
<input type="checkbox"/>	-	rtb-683f0d03	-	-	Yes	vpc-6d3b4e06
<input type="checkbox"/>	private-route	rtb-065a47a765ac20d9e	-	-	No	vpc-07c42970d07a66
<input type="checkbox"/>	-	rtb-06078ca3bb1d6fcf	-	-	Yes	vpc-07c42970d07a66

Select a route table

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Instances | EC2 Management Console | Route tables | VPC Management | Live session 27 | Sprints | what is IPv4 CIDR block - Google | (50) How to Create a NAT Gatew...

https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#RouteTables:

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New VPC Experience Tell us what you think

VPC Dashboard
EC2 Global View New
Filter by VPC:
Select a VPC

VIRTUAL PRIVATE CLOUD
Your VPCs
Subnets
Route Tables new
Internet Gateways
Egress Only Internet Gateways
DHCP Options Sets
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Endpoints
Endpoint Services

Route tables (4) Info

Filter route tables

Route table ID	Explicit subnet associ...	Edge associations	Main	VPC	Ow...
rtb-0df1ed8b5a6061193	-	-	No	vpc-07c42970d07a66f5a my...	66960...
rtb-683f0d03	-	-	Yes	vpc-6d3b4e06	66960...
rtb-065a47a765ac20d9e	-	-	No	vpc-07c42970d07a66f5a my...	66960...
rtb-06078ca3bb1d6fcef	-	-	Yes	vpc-07c42970d07a66f5a my...	66960...

Select a route table

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Instances | EC2 Management Console | Subnets | VPC Management | Live session 27 | Sprints | what is IPv4 CIDR block - Google | (50) How to Create a NAT Gatew...

https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#subnets:

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VPC Dashboard
EC2 Global View New
Filter by VPC:
Select a VPC

VIRTUAL PRIVATE CLOUD
Your VPCs
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Route Tables new
Internet Gateways
Egress Only Internet Gateways
DHCP Options Sets
Elastic IPs
Managed Prefix Lists
Endpoints
Endpoint Services

Subnet (subnet-00c74ceb799a815d0) has been successfully associated with route table (rtb-065a47a765ac20d9e).

Subnets (2/5) Info

Filter subnets

Availability Zone ID	Route table	Network ACL	Default subnet	Auto-assign publi
use2-az3	rtb-0df1ed8b5a6061193 pub...	acl-0e09b96ae7221d4a6	No	Yes
use2-az1	rtb-683f0d03	acl-0d2f7f66	Yes	Yes
use2-az3	rtb-683f0d03	acl-0d2f7f66	Yes	Yes
use2-az3	rtb-065a47a765ac20d9e priv...	acl-0e09b96ae7221d4a6	No	No
use2-az2	rtb-683f0d03	acl-0d2f7f66	Yes	Yes

Subnets: subnet-003d020f337f8460d, subnet-00c74ceb799a815d0

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Instances | EC2 Management Console | VPC Management Console | Live session 27 | Sprints | what is IPv4 CIDR block - Google | (50) How to Create a NAT Gateway

Updated routes for rtb-0df1ed8b5a6061193 / public-rout successfully

Details

vpc-07c42970d07a66f5a | my-vpc(1) 669600377312

Routes Subnet associations Edge associations Route propagation Tags

Routes (2)

Filter routes Both < 1 > ⚙

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No
0.0.0.0/0	igw-04a3f70b89589c909	Active	No

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Instances | EC2 Management Console | NAT gateways | VPC Management Console | Live session 27 | Sprints | what is IPv4 CIDR block - Google | (51) How to Create a NAT Gateway

NAT gateways (1/1) Info

Filter NAT gateways < 1 > ⚙

Name	NAT gateway ID	Connectivity type	State	State message	Elastic IP address
nat-getway	nat-00071395b83eda665	Public	Pending	-	-

nat-00071395b83eda665 / nat-getway

Details Monitoring Tags

Details

NAT gateway ID	Connectivity type	State	State message
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https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#RouteTableDetails:RouteTableId=rtb-0df1ed8b5a6061193

Updated routes for rtb-0df1ed8b5a6061193 / public-route successfully

Details

vpc-07c42970d07a66f5a | my-vpc(1) 669600377312

Routes Subnet associations Edge associations Route propagation Tags

Routes (2)

Filter routes Both 1

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No
0.0.0.0/0	igw-04a3f70b89589c909	Active	No

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https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#RouteTableDetails:RouteTableId=rtb-065a47a765ac20d9e

Updated routes for rtb-065a47a765ac20d9e / private-route successfully

Details

rtb-065a47a765ac20d9e / private-route

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

Details Info

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-065a47a765ac20d9e	No	subnet-00c74ceb799a815d0 / private-sub	-
VPC	Owner ID		
vpc-07c42970d07a66f5a my-vpc(1)	669600377312		

Routes Subnet associations Edge associations Route propagation Tags

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Connect to instance X i-0b55c7d18a2c02df3 X NAT gateways | VPC X Route tables | VPC X Live session 27 | Spro X what is IPv4 CIDR bl X (51) How to Create X

← → ↻ 🏠 🔒 <https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0b55c7d18a2c02df3> ☆ ⬇️ 📄 ☰

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Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-1-83 ~]$
```

i-0b55c7d18a2c02df3 (public-instance)

Public IPs: 3.15.213.202 Private IPs: 10.0.1.83

Windows taskbar: Search, Edge, File Explorer, Firefox, Teams, OneDrive, Settings, Volume, Network, ENG, 6:35 PM 9/27/2021