

# 1- Create VPC

**Your VPCs (2)** Info

Filter VPCs

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
demo-VPC	vpc-05728268a248a354d	Available	10.0.0.0/16	-
-	vpc-0c67f7ee559b37740	Available	172.31.0.0/16	-

Select a VPC above

# 2- Create 2 subnets (Pub, Private)

**Subnets (5)** Info

Filter subnets

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-039312b489c5a6618	Available	vpc-0c67f7ee559b37740	172.31.0.0/20
-	subnet-06db15ae88032a349	Available	vpc-0c67f7ee559b37740	172.31.32.0/20
private-subnet	subnet-0f8e88e0357cf9ed1	Available	vpc-05728268a248a354d   demo-VPC	10.0.2.0/24
public-subnet	subnet-017529259c51c4799	Available	vpc-05728268a248a354d   demo-VPC	10.0.1.0/24
-	subnet-0cf680c6d318da946	Available	vpc-0c67f7ee559b37740	172.31.16.0/20

Select a subnet

### 3- Create 2 instances (one in pub, one in private)

The screenshot shows the AWS Management Console 'Instances' page. A table lists three instances: 'Fruits-Demo-S...', 'App\_Server', and 'DB\_Server'. The 'App\_Server' instance is circled in red. Below the table, a modal window prompts the user to 'Select an instance above'.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Fruits-Demo-S...	i-07b9122719dabd360	Running	t2.micro	2/2 checks passed	No alarms	us-east-2a
App_Server	i-0850051860f831a1f	Running	t2.micro	2/2 checks passed	No alarms	us-east-2a
DB_Server	i-089d2b04b99b577b1	Running	t2.micro	2/2 checks passed	No alarms	us-east-2a

The screenshot shows the 'Instance summary' page for the 'App\_Server' instance (i-0850051860f831a1f). The 'VPC ID' and 'Subnet ID' are circled in red. The page displays various instance details including IP addresses, state, type, and associated VPC and subnet.

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0850051860f831a1f (App_Server)	3.144.114.43   open address	10.0.1.242

  

Instance state	Instance type	Public IPv4 DNS
Running	t2.micro	-

  

Private IPv4 DNS	AWS Compute Optimizer finding	Elastic IP addresses
ip-10-0-1-242.us-east-2.compute.internal	Opt-in to AWS Compute Optimizer for recommendations.   Learn more	-

  

VPC ID	IAM Role
vpc-05728268a248a354d (demo-VPC)	-

  

Subnet ID
subnet-017529259c51c4799 (public-subnet)

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EC2 > Instances > i-089d2b04b99b577b1

### Instance summary for i-089d2b04b99b577b1 (DB\_Server) Info

Updated less than a minute ago

Instance ID: i-089d2b04b99b577b1 (DB\_Server)

Public IPv4 address: -

Private IPv4 addresses: 10.0.2.79

IPv6 address: -

Instance state: Running

Public IPv4 DNS: -

Private IPv4 DNS: ip-10-0-2-79.us-east-2.compute.internal

Instance type: t2.micro

Elastic IP addresses: -

VPC ID: vpc-05728268a248a354d (demo-VPC)

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. | Learn more

IAM Role: -

Subnet ID: subnet-0f8e88e0357cf9ed1 (private-subnet)

Details Security Networking Storage Status checks Monitoring Tags

## 4- Create IGW

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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  
NAT Gateways

### Internet gateways (2) Info

Filter internet gateways

1

	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	-	igw-02482781de2a3318d	Attached	vpc-0c67f7ee559b37740	1285318444
<input type="checkbox"/>	demo-IGW	igw-08079a2c68dcfa638	Attached	vpc-05728268a248a354d   demo-VPC	1285318444

Select an internet gateway above

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## 5- Create RT

**Route tables (4)** Info

Filter route tables

	Name	Route table ID	Explicit subnet associations	Edge associations	Main	VPC
<input type="checkbox"/>	-	rtb-0231010de3768b700	-	-	Yes	vpc-
<input type="checkbox"/>	RTPrivate	rtb-0aa284d8478201e3e	subnet-0f8e88e0357cf9ed1 / private-subnet	-	No	vpc-
<input type="checkbox"/>	-	rtb-01e5538953bc3ee11	-	-	Yes	vpc-
<input type="checkbox"/>	RTPublic	rtb-042e794bb9e9b26d4	subnet-017529259c51c4799 / public-subnet	-	No	vpc-

Select a route table

Route table ID: rtb-042e794bb9e9b26d4

Main: No

Explicit subnet associations: subnet-017529259c51c4799 / public-subnet

Edge associations: -

VPC: vpc-05728268a248a354d | demo-VPC

Owner ID: 128531844412

**Routes (2)**

Filter routes

Both

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No
0.0.0.0/0	igw-08079a2c68dcfa638	Active	No

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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

**SECURITY**

- Network ACLs

Route table ID: rtb-0aa284d8478201e3e

Main: No

Explicit subnet associations: subnet-0f8e88e0357cf9ed1 / private-subnet

Edge associations: -

VPC: vpc-05728268a248a354d | demo-VPC

Owner ID: 128531844412

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

**Routes (2)** Edit routes

Filter routes Both < 1 > ⚙

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No
0.0.0.0/0	nat-0d7fad4e2e6457c19	Active	No

## 6- Create NAT

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New VPC Experience Tell us what you think

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**

- Reachability Analyzer

**DNS FIREWALL**

- Rule Groups New
- Domain Lists New

**NAT gateways (1/1) Info** Create NAT gateway

Filter NAT gateways < 1 > ⚙

Name	NAT gateway ID	Connectivity...	State	State message	Elastic IP address
Demo-NAT	nat-0d7fad4e2e6457c19	Public	Available	-	3.133.40.44

**nat-0d7fad4e2e6457c19 / Demo-NAT**

**Details** Monitoring Tags

**Details**

NAT gateway ID	Connectivity type	State	State message
nat-0d7fad4e2e6457c19	Public	Available	-