

# Create a Virtual Private Cloud using Console

Create VPC

Info

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances. Mouse over a resource to highlight the related resources.

VPC settings

Resources to create

Info

Create only the VPC resource or the VPC and other networking resources.

VPC only

VPC and more

Name tag auto-generation

Info

Enter a value for the Name tag. This value will be used to auto-generate Name tags for all resources in the VPC.

Auto-generate

project-01

IPv4 CIDR block

Info

Determine the starting IP and the size of your VPC using CIDR notation.

10.0.0.0/16

65,536 IPs

CIDR block size must be between /16 and /28.

IPv6 CIDR block

Info

No IPv6 CIDR block

Amazon-provided IPv6 CIDR block

Tenancy

Info

Default

Preview

VPC

Show details

Your AWS virtual network

project-01-vpc

Subnets (4)

Subnets within this VPC

us-east-1a

project-01-subnet-public1-us-east-1a

project-01-subnet-private1-us-east-1a

us-east-1b

project-01-subnet-public2-us-east-1b

project-01-subnet-private2-us-east-1b

Route tables (3)

Route network traffic to resources

project-01-rtb-public

project-01-rtb-private1-us-east-1a

project-01-rtb-private2-us-east-1b

CloudShell

Feedback

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Cookie preferences

Number of Availability Zones (AZs)

Info

Choose the number of AZs in which to provision subnets. We recommend at least two AZs for high availability.

1

2

3

Customize AZs

First availability zone

us-east-1a

Second availability zone

us-east-1b

Number of public subnets

Info

The number of public subnets to add to your VPC. Use public subnets for web applications that need to be publicly accessible over the internet.

0

2

Number of private subnets

Info

The number of private subnets to add to your VPC. Use private subnets to secure backend resources that don't need public access.

0

2

4

Customize subnets CIDR blocks

NAT gateways (\$)

Info

Choose the number of Availability Zones (AZs) in which to create NAT gateways. Note that there is a charge for each NAT gateway.

None

In 1 AZ

1 per AZ

VPC endpoints

Info

Endpoints can help reduce NAT gateway charges and improve security by accessing S3 directly from the VPC. By default, full access policy is used. You can customize this policy at any time.

None

S3 Gateway

DNS options

Info

Enable DNS hostnames

Enable DNS resolution

Preview

VPC

Show details

Your AWS virtual network

project-01-vpc

Subnets (4)

Subnets within this VPC

us-east-1a

project-01-subnet-public1-us-east-1a

project-01-subnet-private1-us-east-1a

us-east-1b

project-01-subnet-public2-us-east-1b

project-01-subnet-private2-us-east-1b

Route tables (3)

Route network traffic to resources

project-01-rtb-public

project-01-rtb-private1-us-east-1a

project-01-rtb-private2-us-east-1b

Network connections (3)

Connections to other networks

project-01-igw

project-01-nat-public1-us-east-1a

project-01-vpc-s3

## Result

VPC > Your VPCs > vpc-022e7d9ad26f6ac84

### vpc-022e7d9ad26f6ac84 / project-01-vpc

Actions

**Details** Info

VPC ID  
vpc-022e7d9ad26f6ac84

Tenancy  
Default

Default VPC  
No

Network Address Usage metrics  
Disabled

State  
Available

DHCP option set  
dopt-0c2189ae2eb35a4b0

IPv4 CIDR  
10.0.0.0/16

Route 53 Resolver DNS Firewall rule groups  
-

DNS hostnames  
Enabled

Main route table  
rtb-0186521fd13c1698d

IPv6 pool  
-

Owner ID  
139017485331

DNS resolution  
Enabled

Main network ACL  
acl-09d95880aeb814d

IPv6 CIDR (Network border group)  
-

Resource map New

CIDRsFlow logsTagsIntegrations

**Resource map** Info

**VPC** Show details  
Your AWS virtual network  
project-01-vpc

**Subnets (4)**  
Subnets within this VPC  
**us-east-1a**  
project-01-subnet-public1-us-east-1a  
project-01-subnet-private1-us-east-1a  
**us-east-1b**  
project-01-subnet-public2-us-east-1b  
project-01-subnet-private2-us-east-1b

**Route tables (4)**  
Route network traffic to resources  
rtb-0186521fd13c1698d  
project-01-rtb-private1-us-east-1a  
project-01-rtb-private2-us-east-1b  
project-01-rtb-public

**Network connections (3)**  
Connections to other networks  
project-01-igw  
project-01-nat-public1-us-east-1a  
project-01-vpc-s3

## Internet Gateways

Internet gateways (1/1) Info

Search

Actions Create internet gateway

	Name	Internet gateway ID	State	VPC ID	Owner
<input checked="" type="checkbox"/>	project-01-igw	igw-088d40270aada38ee	Attached	vpc-022e7d9ad26f6ac84   project-01-vpc	139017485331

igw-088d40270aada38ee / project-01-igw

Details Tags

**Details**

Internet gateway ID  
igw-088d40270aada38ee

State  
Attached

VPC ID  
vpc-022e7d9ad26f6ac84 | project-01-vpc

Owner  
139017485331

### NAT Gateway:

**NAT gateways** (1/1) [Info](#)

[Refresh](#)
[Actions](#)
[Create NAT gateway](#)

Name ▾	NAT gateway ID ▾	Connectivity... ▾	State ▾	State message ▾	Primary public IP ▾	Primary private IP ▾	Primary network interface ▾
project-01-nat-public1-us-east-1a	<a href="#">nat-03061fb9e12a69f81</a>	Public	<span style="color: green;">✔ Available</span>	-	<a href="#">3.228.237.61</a>	10.0.9.227	<a href="#">eni-05d9193d4217487f7</a>

**nat-03061fb9e12a69f81 / project-01-nat-public1-us-east-1a**

[Details](#)
[Secondary IPv4 addresses](#)
[Monitoring](#)
[Tags](#)

### Details

<b>NAT gateway ID</b> nat-03061fb9e12a69f81	<b>Connectivity type</b> Public	<b>State</b> <span style="color: green;">✔ Available</span>	<b>State message</b> -
<b>NAT gateway ARN</b> arn:aws:ec2:us-east-1:139017485331:natgateway/nat-03061fb9e12a69f81	<b>Primary public IPv4 address</b> <a href="#">3.228.237.61</a>	<b>Primary private IPv4 address</b> 10.0.9.227	<b>Primary network interface ID</b> <a href="#">eni-05d9193d4217487f7</a>
<b>VPC</b> <a href="#">vpc-022e7d9ad26f6ac84 / project-01-vpc</a>	<b>Subnet</b> <a href="#">subnet-074256bf248070f32 / project-01-subnet-public1-us-east-1a</a>	<b>Created</b> Wednesday, January 17, 2024 at 15:45:32 GMT+5:30	<b>Deleted</b> -