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

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

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Subnets (4)
Subnets within this VPC

us-east-1a
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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-vpce-s3

Result

Internet Gateways

NAT Gateway: