SET UP AN VPC

Create VPC Info

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, suc

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

VPCdemo

IPv4 CIDR block   Info
Determine the starting IP and the size of your VPC using CIDR notation.

10.0.0.0/24	256 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 ▼

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**

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

Public subnet CIDR block in ap-south-1a

| 10.0.0.0/28 | 16 IPs |

Public subnet CIDR block in ap-south-1b

| 10.0.0.16/28 | 16 IPs |

Private subnet CIDR block in ap-south-1a

| 10.0.0.128/28 | 16 IPs |

Private subnet CIDR block in ap-south-1b

| 10.0.0.144/28 | 16 IPs |

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.

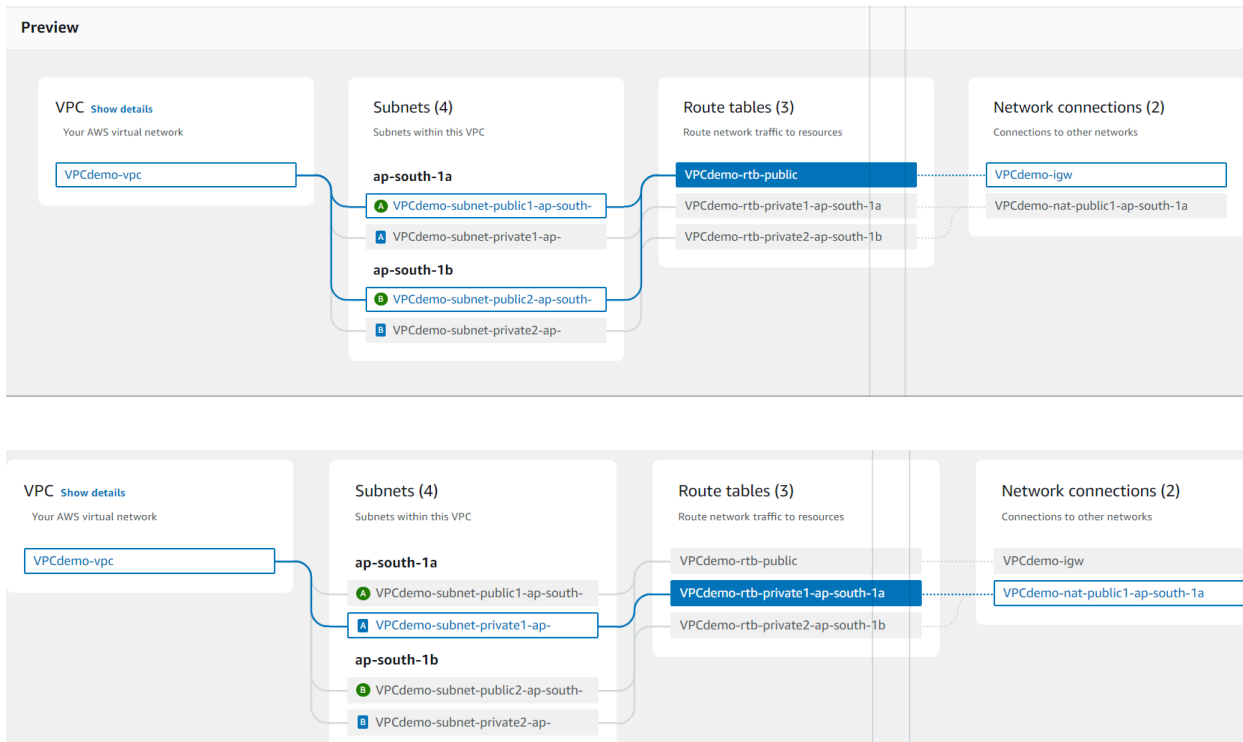| **None** | S3 Gateway |

DNS options Info
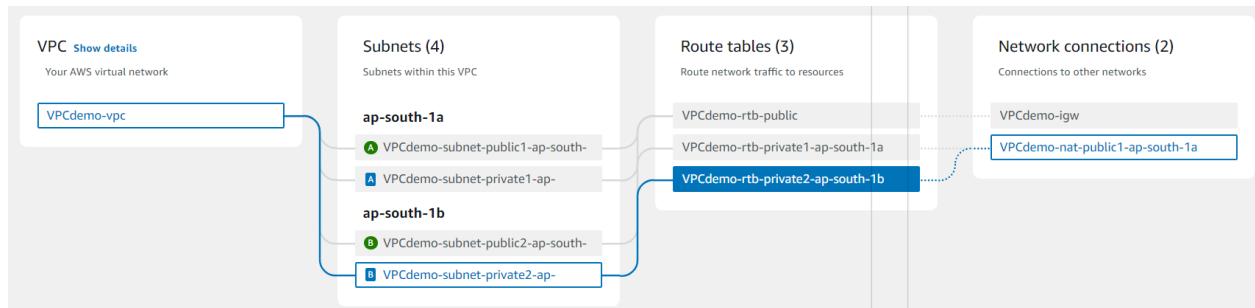☑ Enable DNS hostnames
☑ Enable DNS resolution

▶ Additional tags

Cancel   **Create VPC**

PREFERRED SUBNETS,ROUTE TABLES,NETWORK CONNECTION USING ABOVE VPC

Preview

VPC Show details	Subnets (4)	Route tables (3)	Network connections (2)
Your AWS virtual network	Subnets within this VPC	Route network traffic to resources	Connections to other networks

VPCdemo-vpc

ap-south-1a
- Ⓐ VPCdemo-subnet-public1-ap-south-
- Ⓐ VPCdemo-subnet-private1-ap-

ap-south-1b
- Ⓑ VPCdemo-subnet-public2-ap-south-
- Ⓑ VPCdemo-subnet-private2-ap-

VPCdemo-rtb-public
VPCdemo-rtb-private1-ap-south-1a
VPCdemo-rtb-private2-ap-south-1b

VPCdemo-igw
VPCdemo-nat-public1-ap-south-1a

VPC Show details	Subnets (4)	Route tables (3)	Network connections (2)
Your AWS virtual network	Subnets within this VPC	Route network traffic to resources	Connections to other networks

VPCdemo-vpc

ap-south-1a
- Ⓐ VPCdemo-subnet-public1-ap-south-
- Ⓐ VPCdemo-subnet-private1-ap-

ap-south-1b
- Ⓑ VPCdemo-subnet-public2-ap-south-
- Ⓑ VPCdemo-subnet-private2-ap-

VPCdemo-rtb-public
VPCdemo-rtb-private1-ap-south-1a
VPCdemo-rtb-private2-ap-south-1b

VPCdemo-igw
VPCdemo-nat-public1-ap-south-1a

VPC Show details
Your AWS virtual network

VPCdemo-vpc

Subnets (4)
Subnets within this VPC

ap-south-1a

Ⓐ VPCdemo-subnet-public1-ap-south-

Ⓐ VPCdemo-subnet-private1-ap-

ap-south-1b

Ⓑ VPCdemo-subnet-public2-ap-south-

Ⓑ VPCdemo-subnet-private2-ap-

Route tables (3)
Route network traffic to resources

VPCdemo-rtb-public

VPCdemo-rtb-private1-ap-south-1a

VPCdemo-rtb-private2-ap-south-1b

Network connections (2)
Connections to other networks

VPCdemo-igw

VPCdemo-nat-public1-ap-south-1a

⊘ **Success**

▼ **Details**

⊘ Create VPC: vpc-0be74ad6b2a7ecab5 🔗

⊘ Enable DNS hostnames

⊘ Enable DNS resolution

⊘ Verifying VPC creation: vpc-0be74ad6b2a7ecab5 🔗

⊘ Create subnet: subnet-0222a183498a4fa31 🔗

⊘ Create subnet: subnet-05ec6ed070e753bf0 🔗

⊘ Create subnet: subnet-09d88a06a2595c8b9 🔗

⊘ Create subnet: subnet-0e3ba4248bf5424b4 🔗

⊘ Create internet gateway: igw-09fb4d0189215e211 🔗

⊘ Attach internet gateway to the VPC

⊘ Create route table: rtb-0918385c423b73eac 🔗

⊘ Create route

⊘ Associate route table

⊘ Associate route table

⊘ Allocate elastic IP: eipalloc-09c1a6936fc483793 🔗

⊘ Create NAT gateway: nat-07f00ddd227c38c0d 🔗

⊘ Wait for NAT Gateways to activate

⊘ Create route table: rtb-03b598582f849840c 🔗

⊘ Create route

⊘ Associate route table

⊘ Create route table: rtb-037f53778523b2a77 🔗

⊘ Create route

⊘ Associate route table

Your VPCs (2) Info

🔍 Search

	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP option set
☐	–	vpc-0ff3e97f15df41ee7	⊘ Available	172.31.0.0/16	–	dopt-078f5f279c
☐	VPCdemo-vpc	vpc-0be74ad6b2a7ecab5	⊘ Available	10.0.0.0/24	–	dopt-078f5f279c

Subnets (7) Info

Find resources by attribute or tag

⟨ 1 ⟩

	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6
☐	VPCdemo-subnet-private1-ap-south-1a	subnet-09d88a06a2595c8b9	⊘ Available	vpc-0be74ad6b2a7ecab5	VPC...	10.0.0.128/28	–
☐	–	subnet-0b1445ec094f0906b	⊘ Available	vpc-0ff3e97f15df41ee7	172.31.0.0/20	–
☐	VPCdemo-subnet-public1-ap-south-1a	subnet-0222a183498a4fa31	⊘ Available	vpc-0be74ad6b2a7ecab5	VPC...	10.0.0.0/28	–
☐	–	subnet-07e772ae9fa164806	⊘ Available	vpc-0ff3e97f15df41ee7	172.31.16.0/20	–
☐	VPCdemo-subnet-public2-ap-south-1b	subnet-05ec6ed070e753bf0	⊘ Available	vpc-0be74ad6b2a7ecab5	VPC...	10.0.0.16/28	–
☐	VPCdemo-subnet-private2-ap-south-1b	subnet-0e3ba4248bf5424b4	⊘ Available	vpc-0be74ad6b2a7ecab5	VPC...	10.0.0.144/28	–
☐	–	subnet-01587b532436a2839	⊘ Available	vpc-0ff3e97f15df41ee7	172.31.32.0/20	–

Route tables (3) Info

Find resources by attribute or tag

⟨ 1 ⟩

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
☐	VPCdemo-rtb-public	rtb-0918385c423b73eac	2 subnets	–	No	vpc-0be74ad6b2a7ecab5	VPC...
☐	– ✎	rtb-0864c960837e6610a	–	–	Yes	vpc-0ff3e97f15df41ee7
☐	–	rtb-07baaa8bd1924c06a	–	–	Yes	vpc-0be74ad6b2a7ecab5	VPC...

Internet gateways (2) Info

Search

⟨ 1 ⟩

	Name	Internet gateway ID	State	VPC ID	Owner
☐	–	igw-01f8d2695821dff31	⊘ Attached	vpc-0ff3e97f15df41ee7	730335347230
☐	VPCdemo-igw	igw-09fb4d0189215e211	⊘ Attached	vpc-0be74ad6b2a7ecab5	VPCdemo-vpc	730335347230

NAT gateways (1) Info

Find resources by attribute or tag

⟨ 1 ⟩

	Name	NAT gateway ID	Connectivity...	State	State message	Primary public I...	Primary private I...
○	VPCdemo-nat-public...	nat-07f00ddd227c38c0d	Public	⊘ Available	–	13.202.6.200	10.0.0.7

DEFAULT SUBNET ASSOCIATIONS

Route tables (1/3) Info

	Name ▽	Route table ID ▽	Explicit subnet associ... ▽	Edge associations ▽	Main ▽	VPC ▽
☑	VPCdemo-rtb-public	rtb-0918385c423b73eac	2 subnets	–	No	vpc-0be74ad6b2a7ecab5 | VPC...
☐	–	rtb-0864c960837e6610a	–	–	Yes	vpc-0ff3e97f15df41ee7
☐	–	rtb-07baaa8bd1924c06a	–	–	Yes	vpc-0be74ad6b2a7ecab5 | VPC...

rtb-0918385c423b73eac / VPCdemo-rtb-public

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

Explicit subnet associations (2)

Edit subnet associations

Name ▽	Subnet ID ▽	IPv4 CIDR ▽	IPv6 CIDR ▽
VPCdemo-subnet-public1-ap-south-1a	subnet-0222a183498a4fa31	10.0.0.0/28	–
VPCdemo-subnet-public2-ap-south-1b	subnet-05ec6ed070e753bf0	10.0.0.16/28	–

LAUNCHED AN INSTANCE

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name

VPC

Add additional tags

Quick Start

Amazon Linux	macOS	Ubuntu	Windows	Red Hat	SUSE Li
aws	Mac	ubuntu	Microsoft	Red Hat	SUSE

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

CREATED ABOVE VPC AND PUBLIC SUBNET

▼ **Network settings** Info

VPC - *required* Info

vpc-0be74ad6b2a7ecab5 (VPCdemo-vpc)
10.0.0.0/24   ▲   ↻

🔍

vpc-0ff3e97f15df41ee7   (default)   ↻ Create new subnet ⬀
172.31.0.0/16

vpc-0be74ad6b2a7ecab5 (VPCdemo-vpc)
10.0.0.0/24   ✓

Subnet Info

subnet-0222a183498a4fa31   VPCdemo-subnet-public1-ap-south-1a
VPC: vpc-0be74ad6b2a7ecab5   Owner: 730335347230   ▲   ↻ Create new subnet ⬀
Availability Zone: ap-south-1a   IP addresses available: 10   CIDR: 10.0.0.0/28)

🔍

subnet-09d88a06a2595c8b9   VPCdemo-subnet-private1-ap-south-1a
VPC: vpc-0be74ad6b2a7ecab5   Owner: 730335347230   Availability Zone: ap-south-1a
IP addresses available: 11   CIDR: 10.0.0.128/28)

subnet-0222a183498a4fa31   VPCdemo-subnet-public1-ap-south-1a
VPC: vpc-0be74ad6b2a7ecab5   Owner: 730335347230   ✓   specific traffic to reach your
Availability Zone: ap-south-1a   IP addresses available: 10   CIDR: 10.0.0.0/28)

subnet-05ec6ed070e753bf0   VPCdemo-subnet-public2-ap-south-1b
VPC: vpc-0be74ad6b2a7ecab5   Owner: 730335347230   Availability Zone: ap-south-1b
IP addresses available: 11   CIDR: 10.0.0.16/28)

subnet-0e3ba4248bf5424b4   VPCdemo-subnet-private2-ap-south-1b
VPC: vpc-0be74ad6b2a7ecab5   Owner: 730335347230   Availability Zone: ap-south-1b   rity group is created. Max length is
IP addresses available: 11   CIDR: 10.0.0.144/28)

Mumbai ▼   Sriram Jagadeesan ▼

Instances (1/1) Info

🔄   Connect   Instance state ▼   Actions ▼   **Launch instances** ▼

🔍 Find Instance by attribute or tag (case-sensitive)   All states ▼

Instance ID = i-06120e105c0a3821d ✕   **Clear filters**   ‹ 1 › ⚙

☑	Name ✎ ▽	Instance ID	Instance state ▽	Instance type ▽	Status check	Alarm status	Availability Zone ▽	Public IPv4 DNS
☑	VPC	i-06120e105c0a3821d	⊘ Running 🔍⊕ 🔍⊖	t2.micro	⊘ 2/2 checks passed	View alarms ➕	ap-south-1a	ec2-13-233-250-74.

=

i-06120e105c0a3821d (VPC)   ⚙ ✕

Auto-assigned IP address
🗍
13.233.250.74 [Public IP]

IAM Role
–

IMDSv2
Required

VPC ID
🗍
vpc-0be74ad6b2a7ecab5 (VPCdemo-vpc) ⧉

Subnet ID
🗍
subnet-0222a183498a4fa31 (VPCdemo-subnet-public1-ap-south-1a) ⧉

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

Auto Scaling Group name
–