A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.

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 - *optional*
Creates a tag with a key of 'Name' and a value that you specify.

```
my-vpc-v
```

IPv4 CIDR block   Info

● IPv4 CIDR manual input
○ IPAM-allocated IPv4 CIDR block

IPv4 CIDR

```
20.0.0.0/16
```

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

IPv6 CIDR block   Info

● No IPv6 CIDR block
○ IPAM-allocated IPv6 CIDR block
○ Amazon-provided IPv6 CIDR block
○ IPv6 CIDR owned by me

Tenancy   Info

```
Default                                                          ▼
```

CloudShell   Feedback

⊘ You successfully created vpc-00cc1b15f13a8a171 / my-vpc-v   ✕   ⓘ

VPC > Your VPCs > vpc-00cc1b15f13a8a171   ◈

vpc-00cc1b15f13a8a171 / my-vpc-v   [Actions ▼]

Details   Info

VPC ID	State	DNS hostnames	DNS resolution
🗗 vpc-00cc1b15f13a8a171	⊘ Available	Disabled	Enabled
Tenancy	**DHCP option set**	**Main route table**	**Main network ACL**
Default	dopt-afa473c4	rtb-08a3232fdc90274ed	acl-01d08b728560fa9a9
Default VPC	**IPv4 CIDR**	**IPv6 pool**	**IPv6 CIDR (Network border group)**
No	20.1.0.0/16	–	–
Network Address Usage metrics	**Route 53 Resolver DNS Firewall rule groups**	**Owner ID**	
Disabled	–	🗗 676266512832	

Resource map   CIDRs   Flow logs   Tags   Integrations

Resource map   Info

VPC Show details	Subnets (0)	Route tables (1)	N
Your AWS virtual network	Subnets within this VPC	Route network traffic to resources	Co

VPC

VPC ID
Create subnets in this VPC.

vpc-00cc1b15f13a8a171 (my-vpc-v) ▼

Associated VPC CIDRs

IPv4 CIDRs
20.1.0.0/16

Subnet settings
Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name
Create a tag with a key of 'Name' and a value that you specify.

my-subnet-01

The name can be up to 256 characters long.

Availability Zone   Info
Choose the zone in which your subnet will reside, or let Amazon choose one for you.

No preference ▼

IPv4 VPC CIDR block   Info
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

Subnet name
Create a tag with a key of 'Name' and a value that you specify.

my-subnet-v

The name can be up to 256 characters long.

Availability Zone   Info
Choose the zone in which your subnet will reside, or let Amazon choose one for you.

Asia Pacific (Mumbai) / ap-south-1a ▼

IPv4 VPC CIDR block   Info
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

20.1.0.0/16 ▼

IPv4 subnet CIDR block

20.1.0.0/20   4,096 IPs

‹   ›   ∧   ∨

▼ **Tags - optional**

Key   Value - optional

🔍 Name   ✕   🔍 my-subnet-v   ✕   Remove

Add new tag

You can add 49 more tags.

Remove

🔍 Search   [Alt+S]   ⊡ ◌ ⊘ ⚙ Mumbai ▼   C-user20 @ 6762-6651-2832 ▼

✕   ⊘ You have successfully created 1 subnet: subnet-03a47daf0a076fc6f   ✕   ⓘ

Subnets (1) Info   ↻   Actions ▼   **Create subnet**   ⊘

🔍 Find resources by attribute or tag

Subnet ID : subnet-03a47daf0a076fc6f ✕   Clear filters   ‹ 1 ›   ⚙

☐	Name	▽	Subnet ID	▽	State	▽	VPC	▽	IPv4 CIDR	▽
☐	my-subnet-v		subnet-03a47daf0a076fc6f		⊘ Available		vpc-00cc1b15f13a8a171 | my-v...		20.1.0.0/20	

Create internet gateway Info

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Internet gateway settings

Name tag
Creates a tag with a key of 'Name' and a value that you specify.

```
my-internet-g-v
```

Tags - *optional*

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - *optional*	
🔍 Name ✕	🔍 my-internet-g-v ✕	**Remove**

Add new tag

You can add 49 more tags.

Cancel   **Create internet gateway**

⊘ The following internet gateway was created: igw-02fc682aa5bc928b8 - my-internet-g-v. You can now attach to a VPC to enable the VPC to communicate with the internet.   **Attach to a VPC**   ✕

igw-02fc682aa5bc928b8 / my-internet-g-v

Actions ▼

Details Info

Internet gateway ID	State	VPC ID	Owner
🗗 igw-02fc682aa5bc928b8	⊖ Detached	–	🗗 676266512832

Tags

Manage tags

🔍 Search tags

‹ 1 › ⚙

Key	Value
Name	my-internet-g-v

Attach to VPC (igw-02fc682aa5bc928b8) Info

VPC

Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

Available VPCs

Attach the internet gateway to this VPC.

🔍 vpc-00cc1b15f13a8a171   ✕

▶ AWS Command Line Interface command

Cancel   **Attach internet gateway**

[Alt+S]   ▣   ♧   ⑦   ⚙   Mumbai ▼   C-user20 @ 6762-6651-2832

⊘ Internet gateway igw-02fc682aa5bc928b8 successfully attached to vpc-00cc1b15f13a8a171   ✕

igw-02fc682aa5bc928b8 / my-internet-g-v   Actions ▼

Details Info

Internet gateway ID	State	VPC ID	Owner
▭ igw-02fc682aa5bc928b8	⊘ Attached	vpc-00cc1b15f13a8a171 | my-vpc-v	▭ 676266512832

Tags   Manage tags

🔍 Search tags   ‹ 1 › ⚙

Key	Value
Name	my-internet-g-v

Create route table Info

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Route table settings

Name - *optional*
Create a tag with a key of 'Name' and a value that you specify.

```
my-routtable-v
```

VPC
The VPC to use for this route table.

```
vpc-00cc1b15f13a8a171 (my-vpc-v)                          ▼
```

Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - *optional*	
🔍 Name ✕	🔍 my-routtable-v ✕	**Remove**

Add new tag

You can add 49 more tags.

Cancel   **Create route table**

⊘ Route table rtb-03b6285b8a9a1903a | my-routtable-v was created successfully.   ✕

rtb-03b6285b8a9a1903a / my-routtable-v   **Actions ▼**

Details Info

Route table ID	Main	Explicit subnet associations	Edge associations
🗗 rtb-03b6285b8a9a1903a	🗗 No	–	–
VPC	**Owner ID**		
vpc-00cc1b15f13a8a171 | my-vpc-v	🗗 676266512832		

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

Routes (1)   Both ▼   Edit routes

🔍 Filter routes   < 1 >   ⚙

Destination ▽	Target ▽	Status ▽	Propagated ▽
20.1.0.0/16	local	⊘ Active	No

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/1)

	Name	▽	Subnet ID	▽	IPv4 CIDR	▽	IPv6 CIDR	▽	Route table ID
☑			Subnet ID		IPv4 CIDR		IPv6 CIDR		Route table ID
☑	my-subnet-v		subnet-03a47daf0a076fc6f		20.1.0.0/20		–		Main (rtb-08a3232fdc90274ed)

‹ 1 › ⚙

Selected subnets

subnet-03a47daf0a076fc6f / my-subnet-v ✕

Cancel   **Save associations**

Details Info

Route table ID	Main	Explicit subnet associations	Edge associations
⧉ rtb-03b6285b8a9a1903a	⧉ No	subnet-03a47daf0a076fc6f / my-subnet-v	–
VPC	**Owner ID**		
vpc-00cc1b15f13a8a171 | my-vpc-v	⧉ 676266512832		

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

Explicit subnet associations (1)

Edit subnet associations

🔍 Find subnet association

‹ 1 › ⚙

Name	▽	Subnet ID	▽	IPv4 CIDR	▽	IPv6 CIDR	▽
my-subnet-v		subnet-03a47daf0a076fc6f		20.1.0.0/20		–	

Subnets without explicit associations (0)

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

Edit subnet associations

🔍 Find subnet association

‹ 1 › ⚙

Name	▽	Subnet ID	▽	IPv4 CIDR	▽	IPv6 CIDR	▽

No subnets without explicit associations

All your subnets are associated with a route table.

Your VPCs (1/5) Info

↻   Actions ▼   **Create VPC**

🔍 Search

‹ 1 › ⚙

	Name	▽	VPC ID	▽	State	▽	IPv4 CIDR	▽	IPv6 CIDR	▽	DH
☐	–		vpc-09add7ce9bbcf2e69		⊘ Available		172.30.0.0/16		–		dop
☐	chandravpc		vpc-02b79644663f2a05a		⊘ Available		20.1.0.0/16		–		dop

vpc-00cc1b15f13a8a171 / my-vpc-v

| Details | **Resource map** | CIDRs | Flow logs | Tags | Integrations |

Resource map Info

twork	Subnets (1)	Route tables (2)	Network connections (1)
	Subnets within this VPC	Route network traffic to resources	Connections to other networks
	ap-south-1a	my-routtable-v	my-internet-g-v
	Ⓐ my-subnet-v	rtb-08a3232fdc90274ed	

Name and tags Info

Name

my-ec2-v

Add additional tags

▼ **Application and OS Images (Amazon Machine Image)** Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

🔍 Search our full catalog including 1000s of application and OS images

Recents   My AMIs   **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

Number of instances   Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.4.2...read more
ami-001843b876406202a

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

ⓘ **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per   ✕

Cancel   **Launch instance**

Review commands

Create key pair   ×

Key pair name

Key pairs allow you to connect to your instance securely.

my-key-v

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

- ⦿ **RSA**
  RSA encrypted private and public key pair

- ○ **ED25519**
  ED25519 encrypted private and public key pair

Private key file format

- ⦿ **.pem**
  For use with OpenSSH

- ○ **.ppk**
  For use with PuTTY

> ⚠ When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** Learn more ↗

Cancel   **Create key pair**

my-key-v ▼ ↻ Create new key pair

▼ Summary

Number of instances   Info

1

▼ Network settings   Info

VPC - required   Info

vpc-00cc1b15f13a8a171 (my-vpc-v)
20.1.0.0/16 ▼ ↻

Subnet   Info

subnet-03a47daf0a076fc6f   my-subnet-v
VPC: vpc-00cc1b15f13a8a171   Owner: 676266512832
Availability Zone: ap-south-1a   IP addresses available: 4091   CIDR: 20.1.0.0/20) ▼ ↻ Create new subnet ⧉

Auto-assign public IP   Info

Disable ▼

Firewall (security groups)   Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

(●) Create security group   (○) Select existing security group

Security group name - required

launch-wizard-10

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!$*

Description - required   Info

Software Image (AMI)
Amazon Linux 2023 AMI 2023.4.2...read more
ami-001843b876406202a

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

ⓘ **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per ✕

Cancel   **Launch instance**

Review commands

---

dShell   Feedback   © 2024, Amazon Web Services, Inc. or its affiliates

Instances (1/1)   Info

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

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

Instance ID = i-0221a1e40b27c1ee5 ✕   Clear filters   ‹ 1 › ⚙

☑	Name ✎	▽	Instance ID	Instance state	▽	Instance type	▽	Status check	Alarm status	Availability Zone	▽	Public
☑	my-ec2-v		i-0221a1e40b27c1ee5	⊘ Running ⊕ ⊖		t3.micro		⊘ 2/2 checks passed	View alarms ✛	ap-south-1a		–

---

i-0221a1e40b27c1ee5 (my-ec2-v)   ⚙ ✕

⊏⊐
i-0221a1e40b27c1ee5 (my-ec2-v)

IPv6 address
–

Hostname type
IP name: ip-20-1-11-191.ap-south-1.compute.internal

Answer private resource DNS name
–

Auto-assigned IP address
⧉
3.110.159.159 [Public IP]

⊏⊐
3.110.159.159 | open address ⧉

Instance state
⊘ Running

Private IP DNS name (IPv4 only)
⧉
ip-20-1-11-191.ap-south-1.compute.internal

Instance type
t3.micro

VPC ID
⧉
vpc-00cc1b15f13a8a171 (my-vpc-v) ⧉

⊏⊐
20.1.11.191

Public IPv4 DNS
–

Elastic IP addresses
–

AWS Compute Optimizer finding
⊗
User: arn:aws:iam::676266512832:user/C-user20 is not auth orized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the co

EC2 Instance Connect   **Session Manager**   **SSH client**   **EC2 serial console**

Instance ID

i-0221a1e40b27c1ee5 (my-ec2-v)

1. Open an SSH client.

2. Locate your private key file. The key used to launch this instance is my-key-v.pem

3. Run this command, if necessary, to ensure your key is not publicly viewable.

   chmod 400 "my-key-v.pem"

4. Connect to your instance using its Public IP:

   3.110.159.159

⊘ Command copied

ssh -i "my-key-v.pem" ec2-user@3.110.159.159

ⓘ **Note:** In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.