

Services

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N. Virginia▼votlabs/user20258631=Saltwadekar_Valay_Angar @ 3147-4396-1633▼

VPC > Your VPCs > Create VPC

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

Lab

IPv4 CIDR block

info

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

10.0.0.0/16

65,536 IPs

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

1

Number of private subnets

info

The number of private subnets to add to your VPC. Use private subnets

Preview

VPC

show details

Your AWS virtual network

Lab-vpc

Subnets (2)

Subnets within this VPC

us-east-1a

Lab-subnet-public1-us-east-1a

Lab-subnet-private1-us-east-1a

Route tables (2)

Route network traffic to resources

Lab-rtb-public

Lab-rtb-private1-us-east-1a

Network connections (2)

Connections to other networks

Lab-igw

Lab-nat-public1-us-east-1a

Feedback

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VPC > Your VPCs > Create VPC > Create VPC resources

Create VPC workflow

Creating VPC Resources

Thank you for using the new create VPC experience. Let us know what you think.

Success

Details

Create VPC: vpc-045ffb7e2677d18de

Enable DNS hostnames

Enable DNS resolution

Verifying VPC creation: vpc-045ffb7e2677d18de

Create subnet: subnet-0c53dbfb1a155d8b6

Create subnet: subnet-092aff54359115735

Create Internet gateway: igw-08e925edd5319b675

Attach Internet gateway to the VPC

Create route table: rtb-01dfe779682c62fd7

Create route

Associate route table

Allocate elastic IP: eipalloc-0388fcded49ca547

Create NAT gateway: nat-0fa1ca3dc09d327f4

Wait NAT Gateways to activate

Create route table: rtb-0ca432bf204698381

Create route

Associate route table

Verifying route table creation

View VPC

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New VPC Experience

Tell us what you think

VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

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Carrier gateways

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DNS firewall

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Amazon Network Firewall

VPC > Your VPCs > vpc-045ffb7e2677d18de

vpc-045ffb7e2677d18de / Lab-vpc

Actions

Details info

VPC ID

vpc-045ffb7e2677d18de

State

Available

DNS hostnames

Enabled

DNS resolution

Enabled

Tenancy

Default

DHCP options set

dopt-0376823868ecf60f1

Main route table

rtb-09362637e91423e2d

Default VPC

No

IPv4 CIDR

10.0.0.0/16

IPv6 pool

-

Route 53 Resolver DNS Firewall rule groups

Failed to load rule groups

Owner ID

314743961653

CIDRs

Flow logs

Tags

CIDRs info

Address type	CIDR	Network Border Group	Pool	Status
IPv4	10.0.0.0/16	-	-	Associated

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VPC > Subnets > Create subnet

Create subnet

info

VPC

VPC ID

Create subnets in this VPC.

vpc-045ffb7e2677d18de (Lab-vpc)

Associated VPC CIDRs

IPv4 CIDRs

10.0.0.0/16

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.

Lab-subnet-public2

The name can be up to 255 characters long.

Availability Zone

info

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

US East (N. Virginia) / us-east-1b

IPv4 CIDR block

info

10.0.2.0/24

Tags - optional

Key

Value - optional

Name

Lab-subnet-public2

Remove

Add new tag

You can add 49 more tags.

Remove

Add new subnet

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Amazon Network Firewall

You have successfully created 1 subnet: subnet-Odc38df4058cc22cb

Subnets (1) Info

Filter subnets

Subnet ID: subnet-Odc38df4058cc22cb

Clear filters

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Availability Zone
Lab-subnet-public2	subnet-Odc38df4058cc22cb	Available	vpc-045ffb762b77d18de Lab...	10.0.2.0/24	-	251	us-east-1b

Select a subnet

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Amazon Network Firewall

You have successfully created 1 subnet: subnet-0db97a69a321fe206

Subnets (1/1) Info

Filter subnets

Subnet ID: subnet-0db97a69a321fe206

Clear filters

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Availability Zone
Lab-subnet-private2	subnet-0db97a69a321fe206	Available	vpc-045fb7e2677d18de Lab...	10.0.3.0/24	-	251	us-east-1a

subnet-0db97a69a321fe206 / Lab-subnet-private2

Details

Flow logs

Route table

Network ACL

CIDR reservations

Sharing

Tags

Details

Subnet ID

subnet-0db97a69a321fe206

Available IPv4 addresses

251

Network border group

us-east-1

Default subnet

No

Customer-owned IPv4 pool

-

IPv6-only

No

DNS64

-

Subnet ARN

arn:aws:ec2:us-east-1:314743961653:subnet/subnet-0db97a69a321fe206

IPv6 CIDR

-

VPC

vpc-045fb7e2677d18de | Lab-vpc

Auto-assign public IPv4 address

No

Outpost ID

-

Hostname type

IP name

Owner

-

State

Available

Availability Zone

us-east-1a

Route table

rtb-09362637e91423e2d

Auto-assign IPv6 address

No

IPv4 CIDR reservations

-

Resource name: DNS A record

Disabled

IPv4 CIDR

10.0.3.0/24

Availability Zone ID

use1-az1

Network ACL

acl-02ee6a09a94da446b

Auto-assign customer-owned IPv4 address

No

IPv6 CIDR reservations

-

Resource name: DNS AAAA record

Disabled

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Amazon Network Firewall

You have successfully updated subnet associations for rtb-0ca432bf204698381 / Lab-rtb-private1-us-east-1a.

Route tables (1/6) info

Filter route tables

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC	Owner ID
Work Public Route ...	rtb-022813ebc215ccc5d	subnet-0b3c2433db4c2...	-	No	vpc-0132612fcd9932eff Wor...	314743961653
-	rtb-09d6f8b6b356b8e1	-	-	Yes	vpc-0132612fcd9932eff Wor...	314743961653
-	rtb-0cbf833a5a2e77a3e8	-	-	Yes	vpc-0b5da6d697497e754	314743961653
Lab-rtb-private1-us...	rtb-0ca432bf204698381	2 subnets	-	No	vpc-045fb7e2677d18de Lab...	314743961653
-	rtb-09362637e91423e2d	-	-	Yes	vpc-045fb7e2677d18de Lab...	314743961653
Lab-rtb-public	rtb-01dfe7f9682c62fd7	subnet-0c53dbfb1a135...	-	No	vpc-045fb7e2677d18de Lab...	314743961653

rtb-0ca432bf204698381 / Lab-rtb-private1-us-east-1a

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

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Details

Route table ID

rtb-0ca432bf204698381

VPC

vpc-045fb7e2677d18de | Lab-vpc

Main

No

Owner ID

314743961653

Explicit subnet associations

2 subnets

Edge associations

-

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New VPC Experience

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EC2 Global View

Filter by VPC

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Amazon Network Firewall

Security group (sg-0e32e0764f74e277d) Web Security Group was created successfully

Details

VPC > Security Groups > sg-0e32e0764f74e277d - Web Security Group

sg-0e32e0764f74e277d - Web Security Group

Details

Security group name

Web Security Group

Security group ID

sg-0e32e0764f74e277d

Description

Enable HTTP access

VPC ID

vpc-045ffb7e2677d18de

Owner

314743961653

Inbound rules count

0 Permission entries

Outbound rules count

1 Permission entry

Inbound rules

Outbound rules

Tags

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Inbound rules

Filter security group rules

Manage tags

Edit inbound rules

< 1 >

■

Name

Security group rule...

IP version

Type

Protocol

Port range

Source

Description

No security group rules found

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You've been opted into the new launch experience. Find out more about this experience or send us feedback. You can still return to the previous version by opting-out.

Opt out to the old experience

EC2 > Instances > Launch an Instance

Success

Successfully initiated launch of Instance (i-0234807f79d5d5660)

Launch log

Next Steps

Get notified of estimated charges

Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier)

How to connect to your instance

Your instance is launching and it might be a few minutes until it is in the running state, when it will be ready for you to use

Click View Instances to monitor your instance's status. Once your instance is in the 'running' state, you can connect to it from the Instances screen. Find out how to connect to your instance

View more resources to get you started

View all instances

Feedback

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New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Images

Elastic Block Store

Network & Security

Load Balancing

Instances (1/2)

Search

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IPv6 IPs
Bastion Host	i-0ee2232d0c77bc7b	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-3-82-48-185.comp...	3.82.48.185	-	-
Web Server 1	i-0234807f79d5d5660	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-54-89-151-247.co...	54.89.151.247	-	-

Instance: i-0234807f79d5d5660 (Web Server 1)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance summary

Info

Instance ID

i-0234807f79d5d5660 (Web Server 1)

IPv4 address

-

IPv6 address

-

Hostname type

IP name: ip-10-0-2-189.ec2.internal

Answer private resource DNS name

IPV4 (A)

Auto-assigned IP address

54.89.151.247 [Public IP]

IAM Role

-

Platform

Amazon Linux (Inferred)

Platform details

Linux/UNIX

Stop protection

Disabled

Public IPv4 address

54.89.151.247 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

ip-10-0-2-189.ec2.internal

Instance type

t2.micro

VPC ID

vpc-045fb7e2b7d18de (Lab-vpc)

Subnet ID

subnet-0dc58df4058cc22cb (Lab-subnet-public2)

AMI ID

ami-0c8f752bf583bf9a

AMI name

amzn2-ami-kernel-5.10-hvm-2.0.20220606.1-x86_64-gp2

Launch time

Wed Jun 29 2022 12:15:26 GMT+0530 (India Standard Time) (3 minutes)

Private IPv4 addresses

10.0.2.189

Public IPv4 DNS

ec2-54-89-151-247.compute-1.amazonaws.com | open address

Elastic IP addresses

-

AWS Compute Optimizer finding

User: amznawssts:514745961653:assumed-role/voclabs/user2025863-Saitwadekar_Valay_Angar is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action

Retry

Auto Scaling Group name

-

Monitoring

disabled

Termination protection

Disabled

AMI location

amazon/amzn2-ami-kernel-5.10-hvm-2.0.20220606.1-x86_64-gp2

https://us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#vpcs:vpclid=vpc-045fb7e2b7d18de

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