

Set up a VPC with an Internet gateway, create a public subnet with 256 IP addresses, a private subnet with 256 IP addresses, make a route table connecting the Internet gateway and the subnets, and launch a Linux EC2 instance by using the above VPC and public subnet.

VPC Creation

vpc-0603aafc6b19145a / VPC-1

Actions

DetailsInfo

VPC ID

vpc-0603aafc6b19145a

DNS resolution

Enabled

Main network ACL

acl-0f40bb42d19cd6602

IPv6 CIDR (Network border group)

–

State

Available

Tenancy

default

Default VPC

No

Network Address Usage metrics

Disabled

Block Public Access

Off

DHCP option set

dopt-0f7a5cd3812dd960d

IPv4 CIDR

10.0.0.0/16

Route S3 Resolver DNS Firewall rule groups

Failed to load rule groups

DNS hostnames

Disabled

Main route table

rtb-0c7c15c4713aadb15

IPv6 pool

–

Owner ID

917050833335

Resource mapCIDRSTagsIntegrations

Resource mapInfo

Show all details

VPC

Your AWS virtual network

VPC-1

Subnets (2)

Subnets within this VPC

ap-south-1a

Private-subnet

Public-subnet

Route tables (3)

Route network traffic to resources

Private Route

rtb-0c7c15c4713aadb15

Public Route

Network Connections (1)

Connections to other networks

IG

Pubic & Private Subnet creation

subnet-0c5edf76780abe32f / Public-subnet

Actions

Details

Subnet ID

subnet-0c5edf76780abe32f

IPv4 CIDR

10.0.0.0/24

Availability Zone

aps1-az1 (ap-south-1a)

Network ACL

acl-0f40bb42d19cd6602

Auto-assign customer-owned IPv4 address

No

IPv6 CIDR reservations

–

Resource name DNS AAAA record

Disabled

Subnet ARN

arn:aws:ec2:ap-south-1:917050833335:subnet/subnet-0c5edf76780abe32f

Available IPv4 addresses

249

Network border group

ap-south-1

Default subnet

No

Customer-owned IPv4 pool

–

IPv6-only

No

DNS64

Disabled

State

Available

IPv6 CIDR

–

VPC

vpc-0603aafc6b19145a | VPC-1

Auto-assign public IPv4 address

No

Outpost ID

–

Hostname type

IP name

Owner

917050833335

Block Public Access

Off

IPv6 CIDR association ID

–

Route table

rtb-0642df470a248147b | Public Route

Auto-assign IPv6 address

No

IPv4 CIDR reservations

–

Resource name DNS A record

Disabled

subnet-0a04ca2e3c3268f41 / Private-subnet

Actions

Details

Subnet ID

subnet-0a04ca2e3c3268f41

IPv4 CIDR

10.0.1.0/24

Availability Zone

ap-s1-az1 (ap-south-1a)

Network ACL

acl-0f40bb42d19cd6602

Auto-assign customer-owned IPv4 address

No

IPv6 CIDR reservations

-

Resource name DNS AAAA record

Disabled

Subnet ARN

arn:aws:ec2:ap-south-1:917050833335:subnet/subnet-0a04ca2e3c3268f41

Available IPv4 addresses

251

Network border group

ap-south-1

Default subnet

No

Customer-owned IPv4 pool

-

IPv6-only

No

DNS64

Disabled

State

Available

IPv6 CIDR

-

VPC

vpc-0603aafc6b19145a | VPC-1

Auto-assign public IPv4 address

No

Outpost ID

-

Hostname type

IP name

Owner

917050833335

Block Public Access

Off

IPv6 CIDR association ID

-

Route table

rtb-04b4c7b3fd0acebf5 | Private ROute

Auto-assign IPv6 address

No

IPv4 CIDR reservations

-

Resource name DNS A record

Disabled

Route creation and Association

rtb-0642df470a248147b / Public Route

Actions

Details

Route table ID

rtb-0642df470a248147b

Main

No

Explicit subnet associations

subnet-0c5edf76780abe32f | Public-subnet

Edge associations

-

Owner ID

917050833335

VPC

vpc-0603aafc6b19145a | VPC-1

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (2)

Both

Edit routes

Filter routes

< 1 >

Destination

Target

Status

Propagated

Route Origin

0.0.0.0/0

igw-0688f177b91c9fb2f

Active

No

Create Route

10.0.0.0/16

local

Active

No

Create Route Table

IG

rtb-04b4c7b3fd0acebf5 / Privte ROute

Actions

Details

Route table ID

rtb-04b4c7b3fd0acebf5

Main

No

Explicit subnet associations

subnet-0a04ca2e3c3268f41 | Private-subnet

Edge associations

-

Owner ID

917050833335

VPC

vpc-0603aafc6b19145a | VPC-1

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (2)

Both

Edit routes

Filter routes

< 1 >

Destination

Target

Status

Propagated

Route Origin

0.0.0.0/0

igw-0688f177b91c9fb2f

Active

No

Create Route

10.0.0.0/16

local

Active

No

Create Route Table

IG Creation

igw-0688f177b91c9fb2f / IG

Actions

Details

Internet gateway ID

igw-0688f177b91c9fb2f

State

Attached

VPC ID

vpc-0603aafc6b19145a | VPC-1

Owner

917050833335

Tags

Manage tags

Search tags

< 1 >

Key

Value

Name

IG

EC2 creation with Public IP bind with VPC

Instance summary for i-098341e3ee3c7340f (Sys2) Info

Updated less than a minute ago

Instance ID

i-098341e3ee3c7340f

IPv6 address

-

Hostname type

IP name: ip-10-0-0-192.ap-south-1.compute.internal

Answer private resource DNS name

-

Auto-assigned IP address

13.201.120.169 [Public IP]

IAM Role

-

Public IPv4 address

13.201.120.169 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

ip-10-0-0-192.ap-south-1.compute.internal

Instance type

t2.micro

VPC ID

vpc-0603aafc6b19145a (VPC-1)

Subnet ID

subnet-0c5edf76780abc32f (Public-subnet)

Private IPv4 addresses

10.0.0.192

Public DNS

-

Elastic IP addresses

-

AWS Compute Optimizer finding

User: arn:aws:iam::91705083335:user/guvibalannaganathan is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action

Auto Scaling Group name

-

Connect

Instance state

Actions

```
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-10-0-0-192:~$ ifconfig
enX0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001
    inet 10.0.0.192 netmask 255.255.255.0 broadcast 10.0.0.255
    inet6 fe80::76:ffff:fe63:9aa7 prefixlen 64 scopeid 0x20<link>
    ether 02:76:ff:63:9a:a7 txqueuelen 1000 (Ethernet)
    RX packets 32585 bytes 42820801 (42.8 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 5929 bytes 742316 (742.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 382 bytes 39400 (39.4 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 382 bytes 39400 (39.4 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

ubuntu@ip-10-0-0-192:~$
```

i-098341e3ee3c7340f (Sys2)

PublicIPs: 13.201.120.169 PrivateIPs: 10.0.0.192

```
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
ubuntu@ip-10-0-0-192:~$ ping google.com
PING google.com (217.160.0.201) 56(84) bytes of data:
64 bytes from 217-160-0-201.elastic-ssl.ui-r.com (217.160.0.201): icmp_seq=1 ttl=48 time=122 ms
64 bytes from 217-160-0-201.elastic-ssl.ui-r.com (217.160.0.201): icmp_seq=2 ttl=48 time=122 ms
64 bytes from 217-160-0-201.elastic-ssl.ui-r.com (217.160.0.201): icmp_seq=3 ttl=48 time=122 ms
64 bytes from 217-160-0-201.elastic-ssl.ui-r.com (217.160.0.201): icmp_seq=4 ttl=48 time=122 ms
^C
--- google.com ping statistics ---
5 packets transmitted, 4 received, 20% packet loss, time 4006ms
rtt min/avg/max/mdev = 122.021/122.066/122.120/0.035 ms
ubuntu@ip-10-0-0-192:~$
```