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 created

vpc-03c0e12e77c769f10 / Task-VPC

Actions ▼

Details Info

VPC ID	**State**	**Block Public Access**	**DNS hostnames**
vpc-03c0e12e77c769f10	⊘ Available	⊖ Off	Disabled
DNS resolution	**Tenancy**	**DHCP option set**	**Main route table**
Enabled	default	dopt-05cdc72a447cd7d5d	rtb-043befada82a25020
Main network ACL	**Default VPC**	**IPv4 CIDR**	**IPv6 pool**
acl-04807004bea57267f	No	10.0.0.0/16	–
IPv6 CIDR (Network border group)	**Network Address Usage metrics**	**Route 53 Resolver DNS Firewall rule groups**	**Owner ID**
–	Disabled	⊗ Failed to load rule groups	211125365345

Resource map | CIDRs | Flow logs | Tags | Integrations

Resource map Info

○ Show all details

VPC	**Subnets (2)**	**Route tables (3)**
Your AWS virtual network	Subnets within this VPC	Route network traffic to resources
Task-VPC	**ap-south-1a**	rtb-043befada82a25020
	Ⓐ Task-Public-Subnet	Task-Public-RT
	Ⓐ Task-Private-Subnet	Task-Private-RT

Public subnet created

subnet-095bfafdf287622bf / Task-Public-Subnet

Actions ▼

Details

Subnet ID	**Subnet ARN**	**State**	**Block Public Access**
subnet-095bfafdf287622bf	arn:aws:ec2:ap-south-1:2111 25365345:subnet/subnet-095bfa fdf287622bf	⊘ Available	⊖ Off
IPv4 CIDR		**IPv6 CIDR**	**IPv6 CIDR association ID**
10.0.0.0/24		–	–
Availability Zone	**Available IPv4 addresses**	**VPC**	**Route table**
aps1-az1 (ap-south-1a)	251	vpc-03c0e12e77c769f10	Task-VPC	rtb-004af315e81fb1b38	Task-Public-RT
Network ACL	**Network border group**		
acl-04807004bea57267f	ap-south-1	**Auto-assign public IPv4 address**	**Auto-assign IPv6 address**
	Default subnet	No	No

Private subnet created

subnet-01d1866d1332a3ea5 / Task-Private-Subnet
Actions ▼

Details

Subnet ID
⎘ subnet-01d1866d1332a3ea5

IPv4 CIDR
⎘ 10.0.1.0/24

Availability Zone
⎘ aps1-az1 (ap-south-1a)

Network ACL
acl-04807004bea57267f

Auto-assign customer-owned
No

Subnet ARN
⎘ arn:aws:ec2:ap-south-1:2111
25365345:subnet/subnet-01d18
66d1332a3ea5

Available IPv4 addresses
⎘ 251

Network border group
⎘ ap-south-1

Default subnet
No

State
⊘ Available

IPv6 CIDR
–

VPC
vpc-03c0e12e77c769f10 | Task-VPC

Auto-assign public IPv4 address
No

Block Public Access
⊖ Off

IPv6 CIDR association ID
–

Route table
rtb-082f175b68ff7d80a | Task-Private-RT

Auto-assign IPv6 address
No

Public Route table created

rtb-004af315e81fb1b38 / Task-Public-RT
Actions ▼

Details Info

Route table ID
⎘ rtb-004af315e81fb1b38

VPC
vpc-03c0e12e77c769f10 | Task-VPC

Main
⎘ No

Owner ID
⎘ 211125365345

Explicit subnet associations
subnet-095bfafdf287622bf / Task-Public-Subnet

Edge associations
–

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

Private Route table created

rtb-082f175b68ff7d80a / Task-Private-RT
Actions ▼

Details Info

Route table ID
⎘ rtb-082f175b68ff7d80a

VPC
vpc-03c0e12e77c769f10 | Task-VPC

Main
⎘ No

Owner ID
⎘ 211125365345

Explicit subnet associations
subnet-01d1866d1332a3ea5 / Task-Private-Subnet

Edge associations
–

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

Internet Gateway created

igw-068a185aec88197df / Task-IG

Actions ▼

Details Info

Internet gateway ID
⬚ igw-068a185aec88197df

State
⊘ Attached

VPC ID
vpc-03c0e12e77c769f10 | Task-VPC

Owner
⬚ 211125365345

Tags

Manage tags

🔍 Search tags

< 1 > ⚙

Instance created with above VPC & Subnet

Instance summary for i-0ec366055c9719794 (Task-server-1) Info

↻ | Connect | Instance state ▼ | Actions ▼

Updated less than a minute ago

Instance ID
⬚ i-0ec366055c9719794

Public IPv4 address
⬚ 52.66.106.11 | open address ↗

Private IPv4 addresses
⬚ 10.0.0.231

IPv6 address
–

Instance state
⊘ Running

Public DNS
–

Hostname type
IP name: ip-10-0-0-231.ap-south-1.compute.internal

Private IP DNS name (IPv4 only)
⬚ ip-10-0-0-231.ap-south-1.compute.internal

Connected the instance

```
ens5: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 9001
        inet 10.0.0.231  netmask 255.255.255.0  broadcast 10.0.0.255
        inet6 fe80::df:43ff:fe47:4b25  prefixlen 64  scopeid 0x20<link>
        ether 02:df:43:47:4b:25  txqueuelen 1000  (Ethernet)
        RX packets 30978  bytes 42994376 (42.9 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 3904  bytes 467949 (467.9 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 236  bytes 24046 (24.0 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 236  bytes 24046 (24.0 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

ubuntu@ip-10-0-0-231:~$
```