

# Create Three VPC's and Connect the Three VPC's Using Transit Gateway

## What is Amazon VPC?

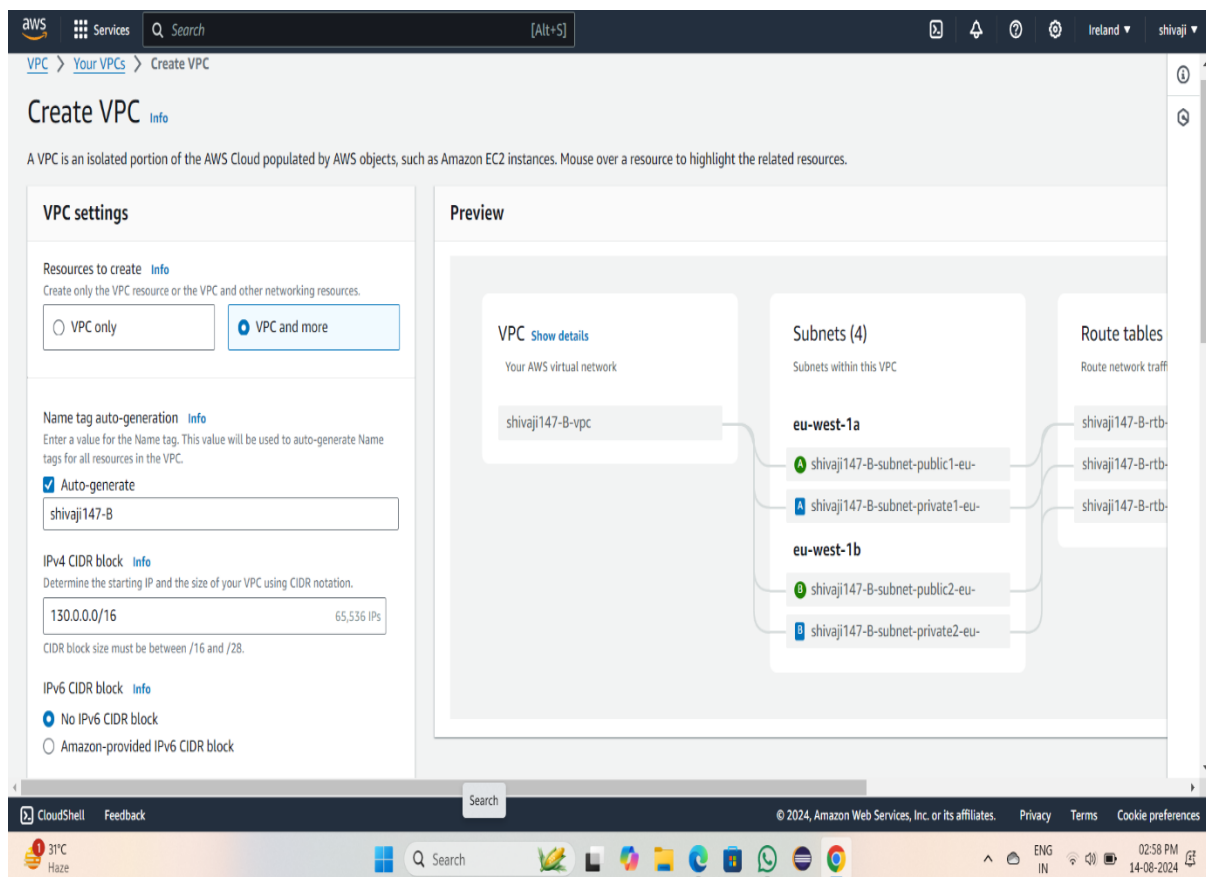
With Amazon Virtual Private Cloud (Amazon VPC), you can launch AWS resources in a logically isolated virtual network that you've defined. This virtual network closely resembles a traditional network that you operate in your own data center, with the benefit of using the scalable infrastructure of AWS.

## What is Transit Gateway?

A transit gateway is a network transit hub that you can use to interconnect your virtual private clouds (VPCs) and on-premises networks. As your cloud infrastructure expands globally, inter Region peering connects transit gateways together using the AWS Global Infrastructure.

## Create Virtual Private Network

1. Log in your Aws Account & search for VPC in the search box.
2. Click on Create VPC & select VPC More.
3. Follow the steps mentioned in the below snapshots.





**Internet gateways (3)** Info

Search

Name	Internet gateway ID	State	VPC ID	Owner
-	igw-03a7d370d99af100b	Attached	vpc-0c2bc7a0b16aa723e	211125446488
shivaji147-B-igw	igw-071f61c743a8cd994	Attached	vpc-0b67981effb235fff   shivaji147-B-vpc	211125446488
shivaji147-A-igw	igw-0e63395c4f015d424	Attached	vpc-01191e9a382640f2e   shivaji147-A...	211125446488

Select an internet gateway above

## Create Transit Gateway:

1. Go to Transit Gateway and select “Create Transit Gateway”.
2. Now, Create Two Transit Gateway Attachments and attach to Transit Gateway.
3. Some snapshots are attached below.

**Transit gateways (1)** Info

Find transit gateway by attribute or tag

Name	Transit gateway ID	State
shivaji147-tg	tgw-0ce0117b9c2f763aa	Available

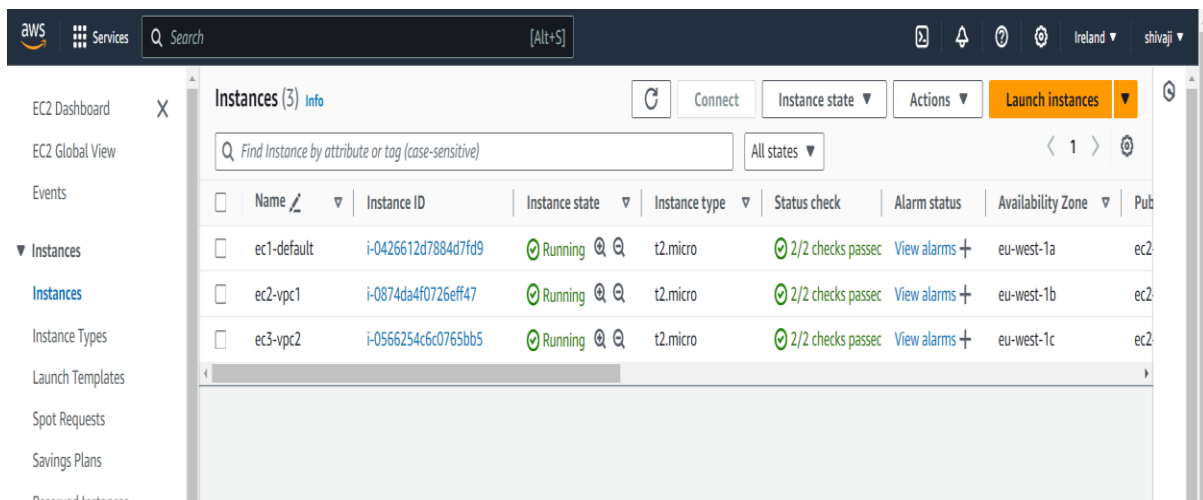
Select a transit gateway

# Create EC2 Instance:

1. Create Three EC2 Instances for Three VPC's.

2. Go to instance -- Launch Instance -- create key pair -- Network -- select AZ -- Select Security Group -- Launch Instance.

3. Some EC2 Snapshots are attached below.



4. After creating 3 EC2 Instances & Copy the SSH.

5. Paste it in the Git bash and Connect.

```
Installed:
  generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
  libunwind-1.4.0-5.amzn2023.0.2.x86_64
  nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64
  nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
  gperftools-1:3.13.0-1.amzn2023.0.2.x86_64
  nginx-1:1.24.0-1.amzn2023.0.2.x86_64
  nginx-filesys-1:1.24.0-1.amzn2023.0.2.x86_64

complete!
[root@ip-120-0-0-25 ~]# cd /usr/share/nginx/html
[root@ip-120-0-0-25 html]# rm index.html
rm: remove regular file 'index.html'? yes
[root@ip-120-0-0-25 html]# vi index.html

[1]+  stopped                  vi index.html
[root@ip-120-0-0-25 html]#
[root@ip-120-0-0-25 html]# rm index.html
rm: cannot remove 'index.html': No such file or directory
[root@ip-120-0-0-25 html]# vi index.html
[root@ip-120-0-0-25 html]# systemctl restart nginx
[root@ip-120-0-0-25 html]# curl 172.31.0.154:80
This server is from Default VPC
[root@ip-120-0-0-25 html]#
```

## OUTPUT:

```
15 root      20    0      0      0      0 I    0.0    0.0
16 root      20    0      0      0      0 S    0.0    0.0
18 root      20    0      0      0      0 S    0.0    0.0
20 root      20    0      0      0      0 S    0.0    0.0
21 root       0 -20      0      0      0 I    0.0    0.0
22 root      20    0      0      0      0 S    0.0    0.0
23 root      20    0      0      0      0 S    0.0    0.0
24 root      20    0      0      0      0 S    0.0    0.0
25 root      20    0      0      0      0 I    0.0    0.0
27 root       0 -20      0      0      0 I    0.0    0.0
28 root      20    0      0      0      0 S    0.0    0.0
29 root      39   19      0      0      0 S    0.0    0.0
root@ip-172-31-0-154 html]# ^C
root@ip-172-31-0-154 html]# curl 120.0.0.25:80
This server is from VPC-A
root@ip-172-31-0-154 html]#
```

```
[1]+  stopped                  vi index.html
[root@ip-120-0-0-25 html]#
[root@ip-120-0-0-25 html]# rm index.html
rm: cannot remove 'index.html': No such file or directory
[root@ip-120-0-0-25 html]# vi index.html
[root@ip-120-0-0-25 html]# systemctl restart nginx
[root@ip-120-0-0-25 html]# curl 172.31.0.154:80
This server is from Default VPC
[root@ip-120-0-0-25 html]# ^C
[root@ip-120-0-0-25 html]# curl 130.0.0.25:80
^C
[root@ip-120-0-0-25 html]# curl 172.31.0.154:80
This server is from Default VPC
[root@ip-120-0-0-25 html]#
```