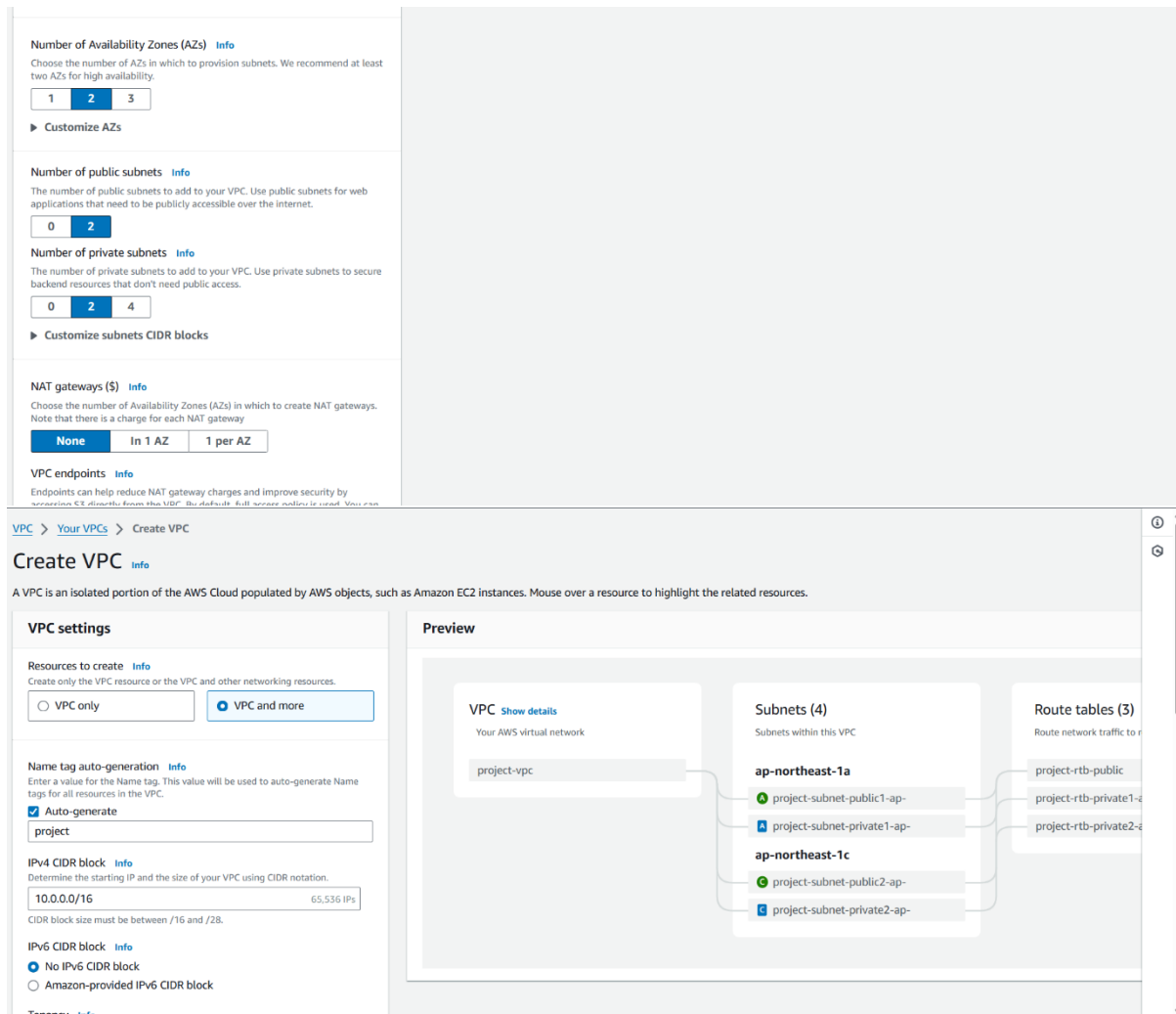


***VPC(virtual private
cloud)***

***Transit gateway
creation.***

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



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 2

Number of private subnets [Info](#)
The number of private subnets to add to your VPC. Use private subnets to secure backend resources that don't need public access.

0 2 4

► Customize subnets CIDR blocks

NAT gateways (\$) [Info](#)
Choose the number of Availability Zones (AZs) in which to create NAT gateways. Note that there is a charge for each NAT gateway.

None In 1 AZ 1 per AZ

VPC endpoints [Info](#)
Endpoints can help reduce NAT gateway charges and improve security by providing a secure connection to AWS services.

VPC > Your VPCs > Create VPC

Create VPC

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
project

IPv4 CIDR block [Info](#)
Determine the starting IP and the size of your VPC using CIDR notation.

10.0.0.0/16 65,536 IPs

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

IPv6 CIDR block [Info](#)
☒ No IPv6 CIDR block
☐ Amazon-provided IPv6 CIDR block

Tenancy [Info](#)

Preview

VPC [Show details](#)
Your AWS virtual network
project-vpc

Subnets (4)
Subnets within this VPC

ap-northeast-1a

- project-subnet-public1-ap-
- project-subnet-private1-ap-

ap-northeast-1c

- project-subnet-public2-ap-
- project-subnet-private2-ap-

Route tables (3)
Route network traffic to...

- project-rtb-public
- project-rtb-private1-ap-
- project-rtb-private2-ap-

4. Some subnet & Route Tables & IGW Snapshots are mentioned below

[Alt+S]

N. California

Rithika @ 9890-7662-2686

Subnets (1) Info

Last updated less than a minute ago

Actions

Create subnet

Find resources by attribute or tag

< 1 >

Name	Subnet ID	State	VPC	IPv4 CIDR
n.california-subnet-public1-us-west-1a	subnet-03a765c1db22b1bf8	Available	vpc-062d62dbc6ba4ee77 n.cal...	11.0.0.0/28

[Alt+S]

Ohio

Rithika @ 9890-7662-2686

Subnets (2) Info

Last updated less than a minute ago

Actions

Create subnet

Find resources by attribute or tag

< 1 >

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-005c01aacdf527cad	Available	vpc-09aadea5342cd3e59	172.31.0.0/20
ohio vpc-subnet-public1-us-east-2a	subnet-0c5836795a5d167ec	Available	vpc-03ea1ad1aeb6b25cf ohio ...	12.0.0.0/20

[Alt+S]

Oregon

Rithika @ 9890-7662-2686

Route tables (3) Info

Last updated less than a minute ago

Actions

Create route table

Find resources by attribute or tag

< 1 >

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
-	rtb-04d91ae4fb02ff3a0	-	-	Yes	vpc-02b8fc78b4bf1f
oregon vpc-rtb-public	rtb-03c04467edfd17727	subnet-0e1630b1f1d60b...	-	No	vpc-02b8fc78b4bf1f
-	rtb-0a09c157d893735	-	-	Yes	vpc-0b7416b9afee7...

[Alt+S]

N. California

Rithika @ 9890-7662-2686

Route tables (3) Info

Last updated less than a minute ago

Actions

Create route table

Find resources by attribute or tag

< 1 >

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
n.california-rtb-public	rtb-0c4a034f877501fa2	subnet-03a765c1db22b1...	-	No	vpc-062d62dbc6ba4
-	rtb-0d60af4dbada412f8	-	-	Yes	vpc-0c71ab0768620
-	rtb-0911414f69bf087db	-	-	Yes	vpc-062d62dbc6ba4

[Alt+S]

Ohio

Rithika @ 9890-7662-2686

Route tables (3) Info

Last updated less than a minute ago

Actions

Create route table

Find resources by attribute or tag

< 1 >

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
-	rtb-0f83badb022948901	-	-	Yes	vpc-03ea1ad1aeb1
-	rtb-0cae08730727d2dd0	-	-	Yes	vpc-09aadea5342
ohio vpc-rtb-public	rtb-0d7a4c10a0589b9ec	subnet-0c5836795a5d16...	-	No	vpc-03ea1ad1aeb1

[Alt+S]

Ohio

Rithika @ 9890-7662-2686

Internet gateways (1) Info

Last updated less than a minute ago

Actions

Create internet gateway

Search

< 1 >

Name	Internet gateway ID	State	VPC ID	Owner
ohio vpc-igw	igw-0b388e16a69baa811	Attached	vpc-03ea1ad1aeb6b25cf ohio vpc-vpc	9890766226

Internet gateways (1) Info

Name	Internet gateway ID	State	VPC ID	Owner
n.california-igw	igw-09e71964f1abcc01f	Attached	vpc-062d62dbc6ba4ee77 n.california-...	9890766226

Subnets (2) Info

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-0445c6ba1fde98d4f	Available	vpc-0b7416b9afe7abbe	172.31.48.0/20
oregon vpc-subnet-public1-us-west-2a	subnet-0e1630b1f1d60b3e0	Available	vpc-02b8fc78b4bf1fa8f orego...	10.0.0.0/20

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

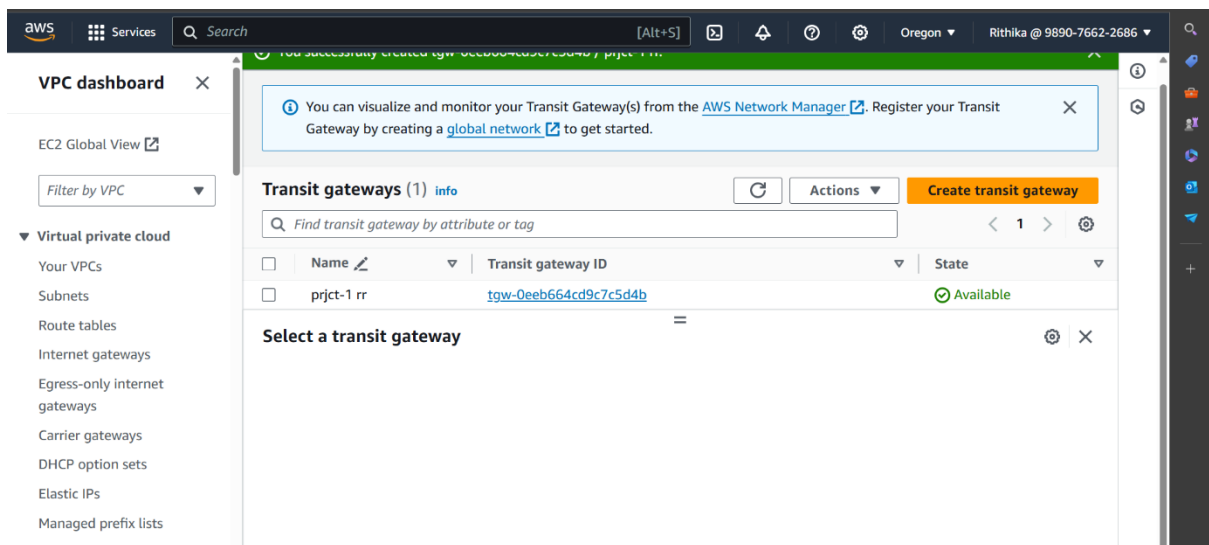
Transit gateways (1) Info

Name	Transit gateway ID	State
prjct-1 rr	tgw-0eeb664cd9c7c5d4b	Available

Select a transit gateway

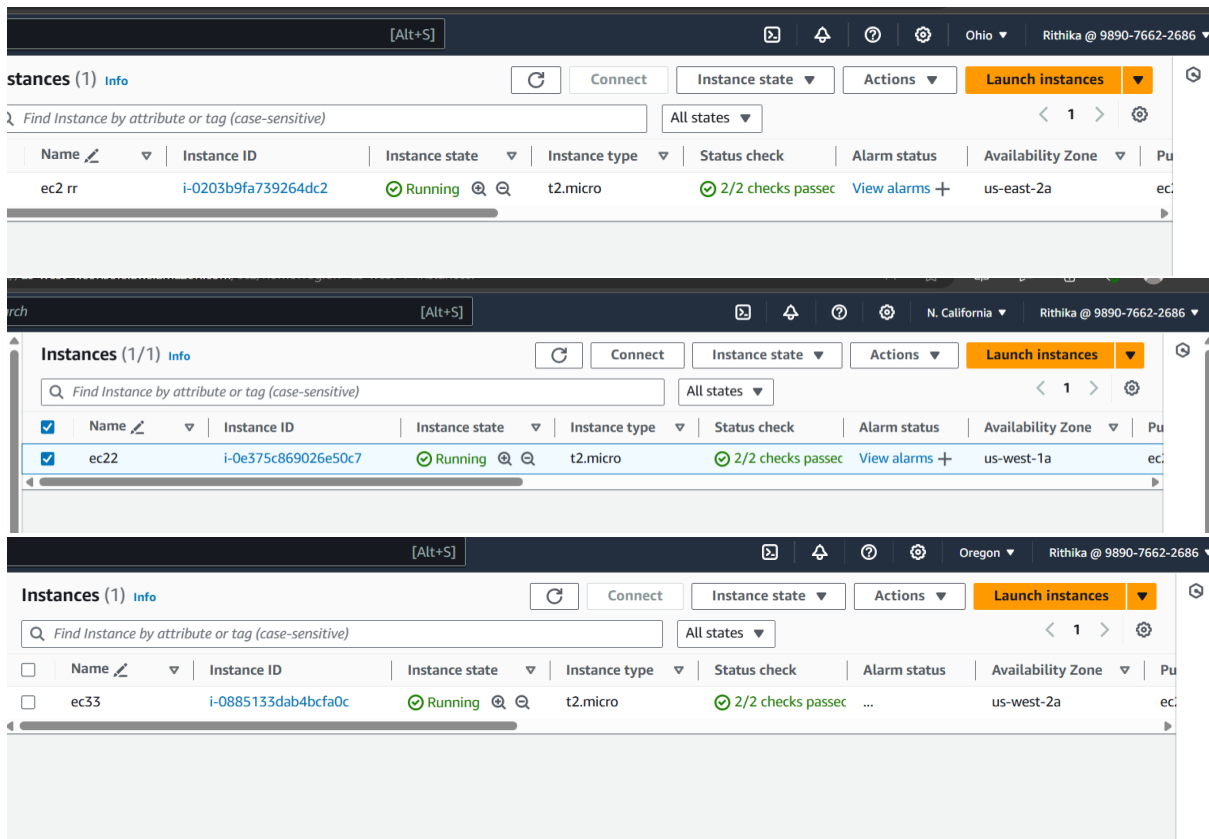
Create Transit Gateway:

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



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 Screenshots are attached below



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

5. Paste it in the Git bash and Connect.

```

root@ip-11-0-0-12:/usr/share/nginx/html
Running scriptlet: nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch 1/7
Installing : nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch 1/7
Installing : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch 2/7
Installing : libunwind-1.4.0-5.amzn2023.0.2.x86_64 3/7
Installing : gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64 4/7
Installing : nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64 5/7
Installing : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 6/7
Installing : nginx-1:1.24.0-1.amzn2023.0.2.x86_64 7/7
Running scriptlet: nginx-1:1.24.0-1.amzn2023.0.2.x86_64 7/7
Verifying : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 1/7
Verifying : gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64 2/7
Verifying : libunwind-1.4.0-5.amzn2023.0.2.x86_64 3/7
Verifying : nginx-1:1.24.0-1.amzn2023.0.2.x86_64 4/7
Verifying : nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64 5/7
Verifying : nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch 6/7
Verifying : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch 7/7

Installed:
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch      gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
libunwind-1.4.0-5.amzn2023.0.2.x86_64                nginx-1:1.24.0-1.amzn2023.0.2.x86_64
nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64            nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch
nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch

Complete!
[root@ip-11-0-0-12 ~]# cd /usr/share/nginx/html
[root@ip-11-0-0-12 html]# rm index.html
rm: remove regular file 'index.html'? yes
[root@ip-11-0-0-12 html]# vi index.html
[root@ip-11-0-0-12 html]# systemctl restart nginx
[root@ip-11-0-0-12 html]# curl 13.57.193.45:80
this is my second assignment
[root@ip-11-0-0-12 html]#

```

OUTPUT :

```
last metadata expiration check: 3:53:20 ago on Fri Aug 16 04:51:
Package nginx-1:1.24.0-1.amzn2023.0.2.x86_64 is already installed
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-11-0-0-12 ~]# curl 13.57.193.45:80
this is my second assignment
[root@ip-11-0-0-12 ~]# curl 54.200.206.84:80
this is my 3rd project
[root@ip-11-0-0-12 ~]# curl 3.135.206.67:80
s my first project
[root@ip-11-0-0-12 ~]# |

PACKAGE [PACKAGE ...]
yum install: error: the following arguments are required: PACK
[root@ip-12-0-14-202 ~]# yum install nginx -y
Last metadata expiration check: 3:48:57 ago on Fri Aug 16 04:5
Package nginx-1:1.24.0-1.amzn2023.0.2.x86_64 is already instal
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-12-0-14-202 ~]# curl 13.57.193.45:80
this is my second assignment
[root@ip-12-0-14-202 ~]# curl 54.200.206.84:80
this is my 3rd project
[root@ip-12-0-14-202 ~]# curl 3.135.206.67:80
s my first project
[root@ip-12-0-14-202 ~]#

Complete!
[root@ip-11-0-0-12 ~]# yum install nginx -y
Last metadata expiration check: 3:53:20 ago on Fri
Package nginx-1:1.24.0-1.amzn2023.0.2.x86_64 is al
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-11-0-0-12 ~]# curl 13.57.193.45:80
this is my second assignment
[root@ip-11-0-0-12 ~]# curl 54.200.206.84:80
this is my 3rd project
[root@ip-11-0-0-12 ~]# curl 3.135.206.67:80
s my first project
[root@ip-11-0-0-12 ~]#
```

