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Batch:129

CREATE THREE VPCs IN THREE DIFFERENT REGIONS AND CONNECT THE VPCs USING TRANSIT GATEWAY

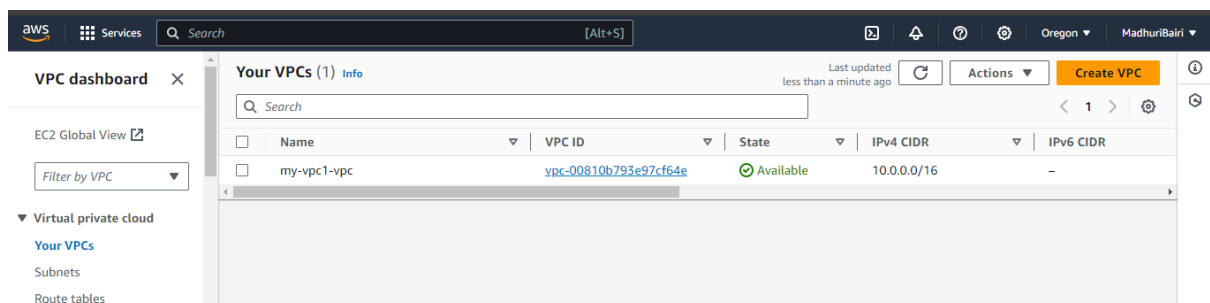
CREATE VPCs IN THREE DIFFERENT REGIONS:

- . oregon
- . California
- . ohio

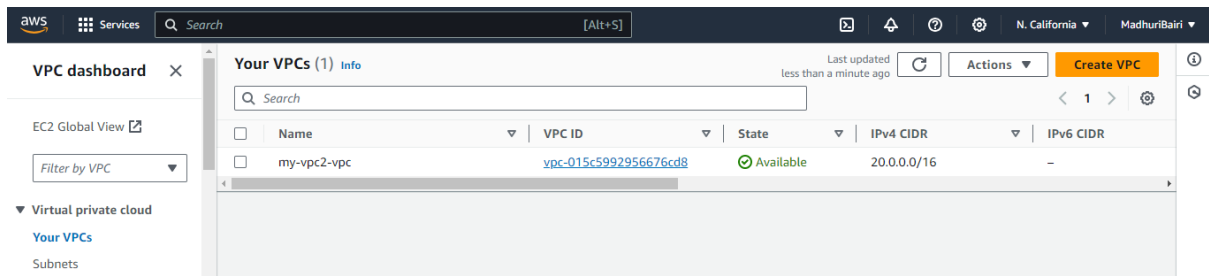
STEPS:

1. Login to AWS Account & Select the regions (Ohio ,California , Oregon).
2. Choose the Ohio region, Click on Create VPC, Select VPC and more and create VPC.
3. Do the same process after selecting the California & Oregon Regions.

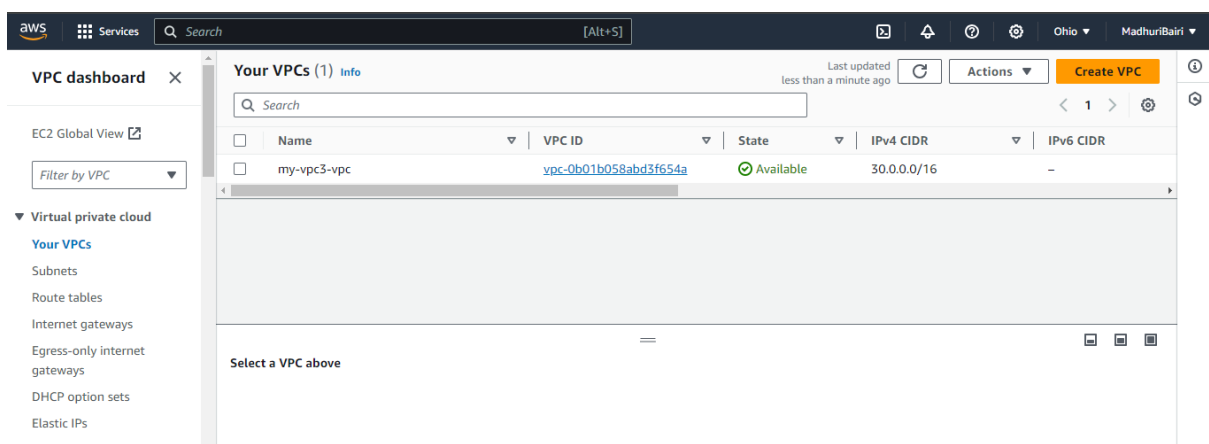
OREGON:



CALIFORNIA:



OHIO:

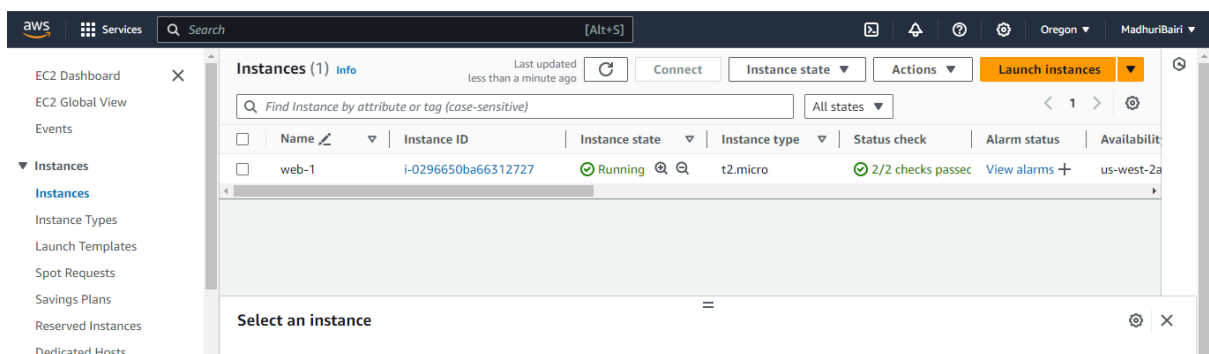


4.Create EC2 instances for 3 regions.

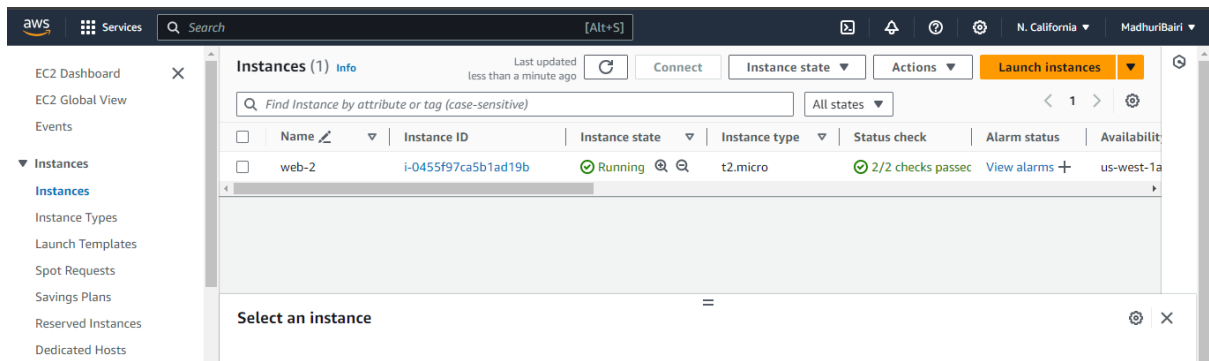
- Launch instance – create key pair - create security group - add security group rule - launch instance

5.Create Transit Gateway for all three regions.

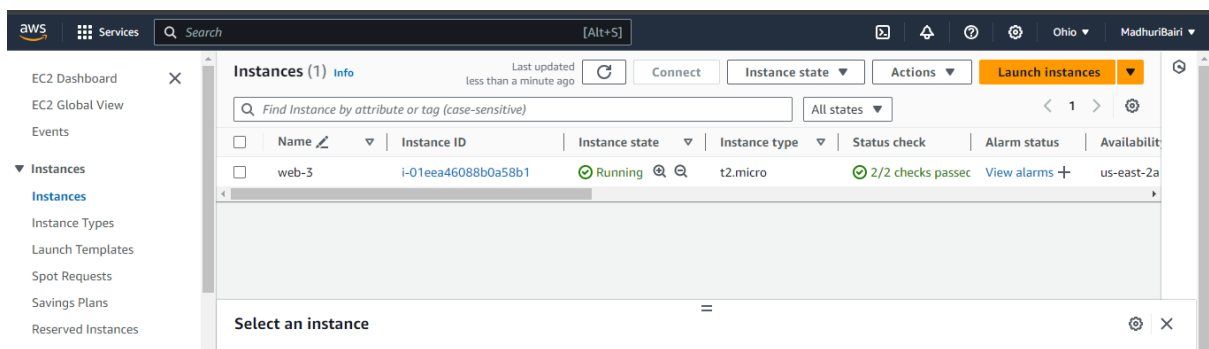
OREGON:



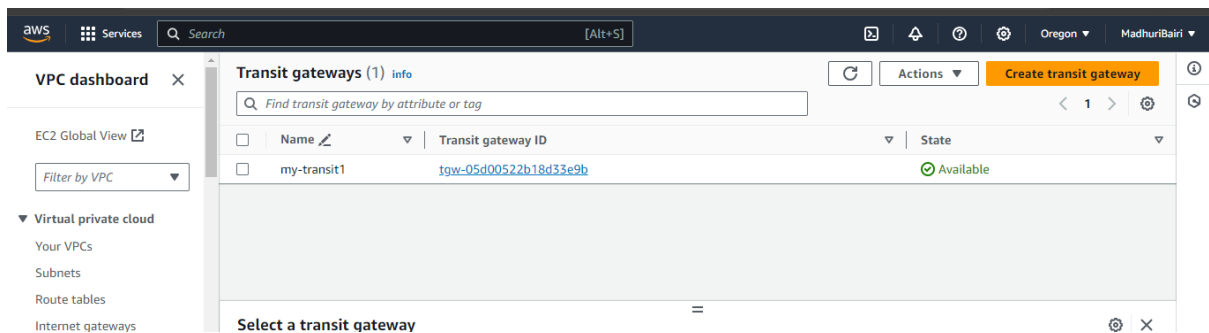
CALIFORNIA:



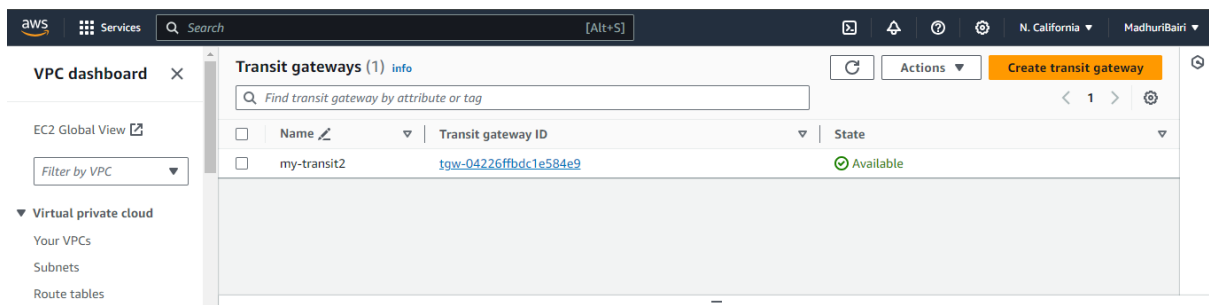
OHIO:



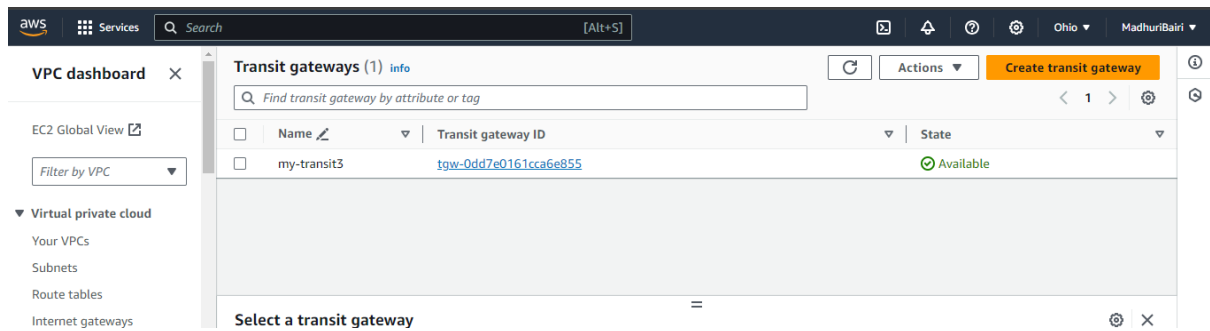
OREGON:



CALIFORNIA:



OHIO:

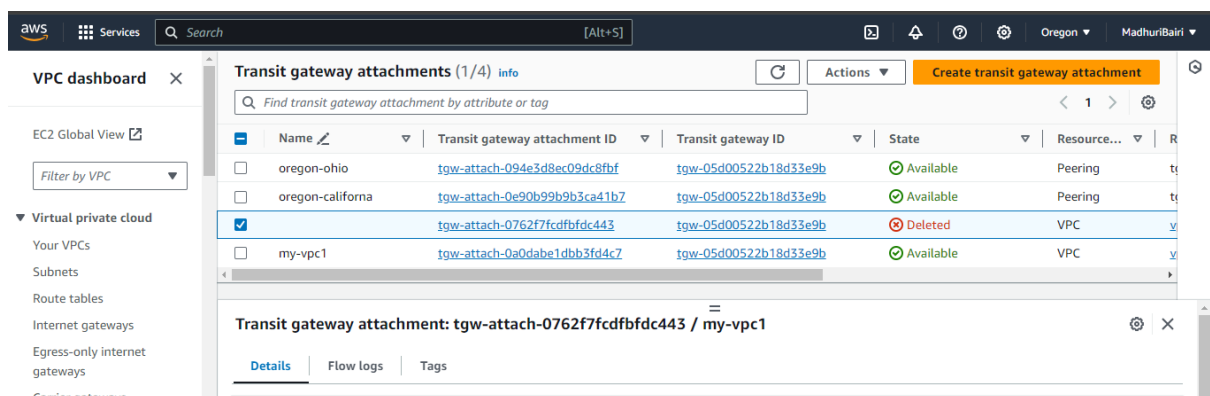


6. Create 2 transit gateway attachments for each region.

- One for vpc
- Other one for peering connection → VPC and Peering Connections between the regions:
 - Ohio – California
 - California – Oregon
 - Oregon – Ohio

At all regions status should be in available state.

OREGON:



CALIFORNIA:

The screenshot shows the AWS Management Console interface for the Ohio region. The left sidebar displays the 'VPC dashboard' with a search bar and a list of services including EC2 Global View, Filter by VPC, Virtual private cloud, Your VPCs, Subnets, Route tables, Internet gateways, and Firewall-only internet. The main content area is titled 'Transit gateway attachments (3) info' and contains a table with the following data:

Name	Transit gateway attachment ID	Transit gateway ID	State	Resource...	Re
california-ohio	tgw-attach-0228f4f765a22cfc7	tgw-04226ffbd1e584e9	Available	Peering	tg
california-oregon	tgw-attach-0e90b99b9b3ca41b7	tgw-04226ffbd1e584e9	Available	Peering	tg
my-vpc2	tgw-attach-03f9df1c239faa786	tgw-04226ffbd1e584e9	Available	VPC	yp

Below the table, there is a section titled 'Select a transit gateway attachment' with a search bar and a list of attachments.

OHIO:

The screenshot shows the AWS Management Console interface for the Oregon region. The left sidebar displays the 'Transit gateways' section with a search bar and a list of services including Verified Access groups, Verified Access endpoints, Transit gateways, Transit gateway attachments, Transit gateway policy tables, Transit gateway route tables, and Transit gateway multicast. The main content area is titled 'Transit gateway attachments (3) info' and contains a table with the following data:

Name	Transit gateway attachment ID	Transit gateway ID	State	Resource...	Re
	tgw-attach-0228f4f765a22cfc7	tgw-0dd7e0161cca6e855	Available	Peering	tg
	tgw-attach-094e3d8ec09dc8fbf	tgw-0dd7e0161cca6e855	Available	Peering	tg
my-vpc3	tgw-attach-0ec66dbd82ed17e86	tgw-0dd7e0161cca6e855	Available	VPC	yp

Below the table, there is a section titled 'Select a transit gateway attachment' with a search bar and a list of attachments.

7. Go to route tables & edit the routes & save changes.

OREGON:

Services

Search

[Alt+S]

Oregon

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VPC

Route tables

rtb-086ea67c0a7c60063

Edit routes

Edit routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No
0.0.0.0/0	Internet Gateway	Active	No
20.0.0.0/16	Transit Gateway	-	No
30.0.0.0/16	Transit Gateway	-	No

Add route

Remove

Remove

Remove

Cancel

Preview

Save changes

CALIFORNIA:

Services

Search

[Alt+S]

N. California

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VPC

Route tables

rtb-081919bfc349a48c0

Edit routes

Edit routes

Destination	Target	Status	Propagated
20.0.0.0/16	local	Active	No
0.0.0.0/0	Internet Gateway	Active	No
10.0.0.0/16	Transit Gateway	-	No
30.0.0.0/16	Transit Gateway	-	No

Add route

Remove

Remove

Remove

Cancel

Preview

Save changes

OHIO:

Services

Search

[Alt+S]

Ohio

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VPC

Route tables

rtb-0dca98ead620d0618

Edit routes

Edit routes

Destination	Target	Status	Propagated
30.0.0.0/16	local	Active	No
0.0.0.0/0	Internet Gateway	Active	No
10.0.0.0/16	Transit Gateway	-	No
20.0.0.0/16	Transit Gateway	-	No

Add route

Remove

Remove

Remove

Cancel

Preview

Save changes

8.Go to EC2 instance and connect the server git bash in all three regions.

OREGON:

```
root@ip-10-0-3-107:/usr/share/nginx/html
[root@ip-10-0-3-107 html]# curl 10.0.3.107
This is my webserver-1
[root@ip-10-0-3-107 html]# curl 3.101.144.219:80
This is my webserver-2
[root@ip-10-0-3-107 html]# curl 3.147.82.248:80
This is my webserver-3
[root@ip-10-0-3-107 html]#
```

CALIFORNIA:

```
root@ip-20-0-0-239:/usr/share/nginx/html
[root@ip-20-0-0-239 html]# curl 20.0.0.239
This is my webserver-2
[root@ip-20-0-0-239 html]# curl 3.147.82.248:80
This is my webserver-3
[root@ip-20-0-0-239 html]# curl 35.160.46.67:80
This is my webserver-1
[root@ip-20-0-0-239 html]# |
```

OHIO:

```
root@ip-30-0-14-165:/usr/share/nginx/html
[root@ip-30-0-14-165 html]# curl 30.0.14.165
This is my webserver-3
[root@ip-30-0-14-165 html]# curl 35.160.46.67:80
This is my webserver-1
[root@ip-30-0-14-165 html]# curl 3.101.144.219:80
This is my webserver-2
[root@ip-30-0-14-165 html]# |
```