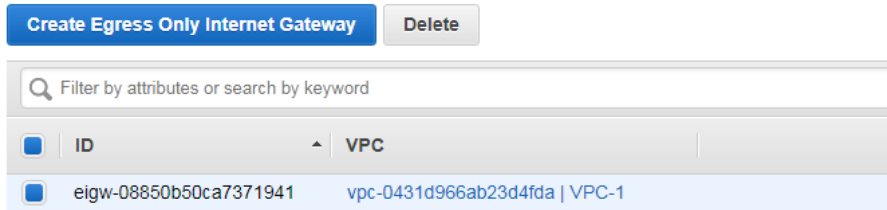
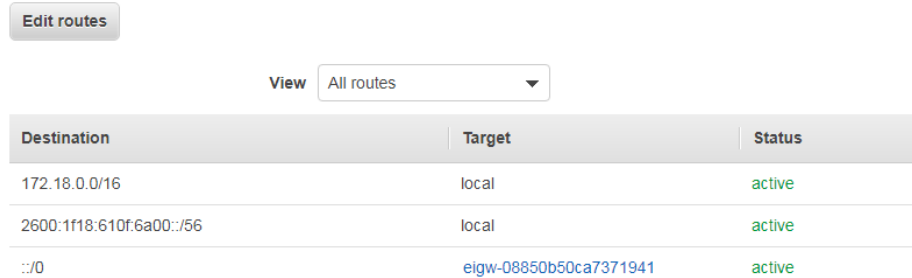


Lab manual – Apply NAT GW and EIG for the RT2 in the LM6.1

1. Creation of Route table 2 and associating the respective private subnets to this Route table 2 is the same as LM6.1
2. Also create “EC2” instance in the private subnet and public subnets.
3. Now create “Egress only Internet Gateway” and assign that to the particular VPC.



And now APPLY the “Egress only Internet Gateway” on the Route Table 2.



Checking the output.

Login to the 2nd EC2 instance in the private subnet and run the below command

```
# ping6 yahoo.com
```

If all the configuration is fine, we should get an reply.

4. Configure the NAT GW for IPv4 external connectivity.

This has 2 parts

- a. Front End
 - b. Backend
- a. **Configuring the Front End part, means the NAT Gateway should have internet access so that it can provide it to the private subnets as requested.**

Create an NAT GW, and select the “**Public Subnet**” that has internet access on it.

Ans also assign a “Elastic IP” public ipv4 on the NAT GW.

Create NAT Gateway

Create a NAT gateway and assign it an Elastic IP address. [Learn more.](#)

Subnet*

Elastic IP Allocation ID*

* Required

Subnet ID	Subnet Name	VPC ID	VPC Name
subnet-0e31955e858c6d3c1	Sub2-VPC1-Private	vpc-0431d966ab23d4fda	VPC-1
subnet-068f945b1fd13595a	-	vpc-0b17f9a14de147cc1	-
subnet-0f3b774d3d05f9a3b	-	vpc-0b17f9a14de147cc1	-
subnet-0ec726ff4ca782a50	-	vpc-0b17f9a14de147cc1	-
subnet-0dc4b24f1d40262b4	sub1-vpc-1 - Public	vpc-0431d966ab23d4fda	VPC-1
subnet-0b8044d04915fd918	-	vpc-0b17f9a14de147cc1	-
subnet-06804d6144038ec52	-	vpc-0b17f9a14de147cc1	-

[Create New EIP](#) [Cancel](#) [Create a NAT Gateway](#)

b. Configure the backend part

Add the Route pointing towards “NATGW” on the Route Table2.

<input type="checkbox"/>	Name	Route Table ID	Explicitly Associated with	Main	VPC ID
<input type="checkbox"/>		rtb-0cabfa905285352db	-	Yes	vpc-0b17f9a14de147cc1
<input checked="" type="checkbox"/>	RT01	rtb-0f559649050fa5b41	subnet-0e31955e858c6d3c1	No	vpc-0431d966ab23d4fda VPC

Route Table: rtb-0f559649050fa5b41

- Summary
- Routes
- Subnet Associations
- Route Propagation
- Tags

Edit routes

View All routes

Destination	Target	Status	Propa
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Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated
172.18.0.0/16	local	active	No
2600:1f18:610f:6a00::/56	local	active	No
0.0.0.0/0	elgw-08850b50ca7371941	active	No
0.0.0.0/0	nat-07771d97cf593be54	No	No

Add route

* Required

[Cancel](#) [Save routes](#)

This should give the public access to the 2nd Machine in the private network, over IPv4.

ping yahoo.com

5. Delete the Env
 - a. Delete the Instances
 - b. Delete the NAT GW (This takes around 3 to 5 min)
 - c. “Release” the Elastic IP manually (Elastic ip assigned to NAT GW does not get deleted automatically, we would need to delete is manually)
 - d. Remove the subnet association from the Route Table 2
 - e. Delete the Route Table 2
 - f. Finally Delete the VPC