

Transit Gateway with Site-Site VPN Setup.

It acts as a central hub that connects multiple virtual private clouds (VPCs), on-premises networks, and VPNs, enabling seamless communication between them.

So, in this practical again we will have three different regions which will behave like different AWS accounts.

US-EAST-1 - 192.168.255.0/24 - this will have VPN with Transit GW

Mumbai - 172.16.0.0/16 - VPN Client

Another AWS account – 192.168.254.0/24 – here we will see if we can ping US-EAST-1 instance via Transit GW.

So, let's start now.

First, we will configure all the services that are needed in US-EAST-1 region.

Step -1 VPC Setup

Step -2 VPC Setup for Mumbai region and install the Open Swan and configure it.

Step -3 Transit GW setup with VPN.

Step -4 Share the Transit GW with other AWS accounts.

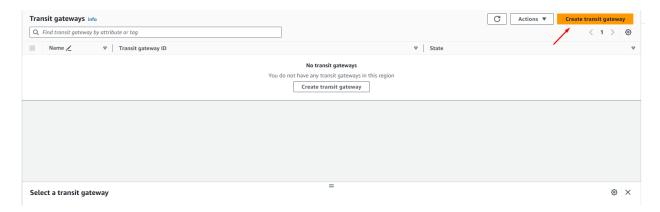
Step -5 VPC Setup in new AWS account.

Step -6 Transit GW Attachment in the AWS account.

Step – 7 Change the route table setting in US-EAST-1 and New AWS account.

Let's set up Transit GW first.

Click on Create transit gateway.



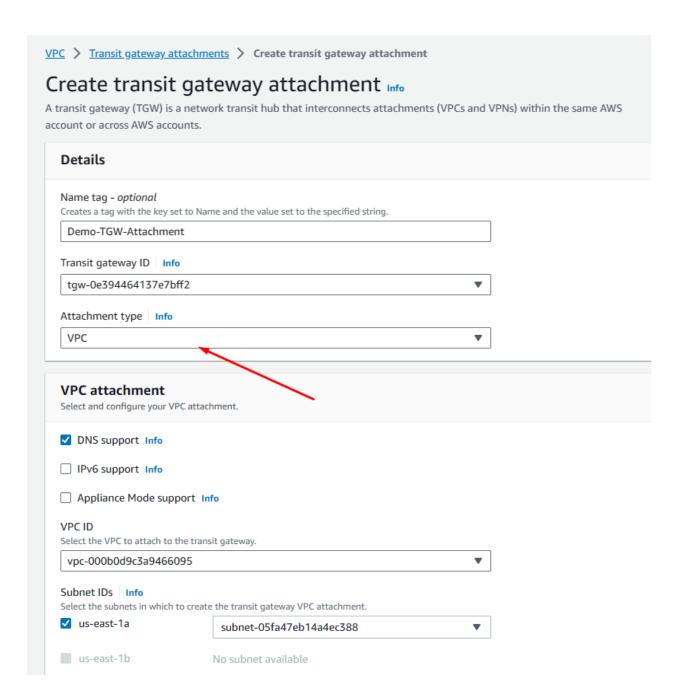
Fill in the details and keep the default setting and then click on create transit gateway.

Now create Customer Gateway.

Next step is to create the Site-Site VPN, make sure while creating the VPN we have to select Target Gateway as Transit Gateway.

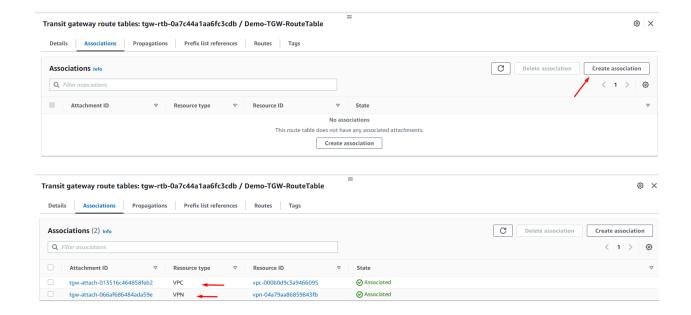
Once the VPN is setup then configure OpenSwan.

Create Transit GW Attachment and attach to VPC, make sure to Select Attachment Type as VPC.



Next steps create Transit gateway route table.

Once the route table is created, then add Associations and Propagations.

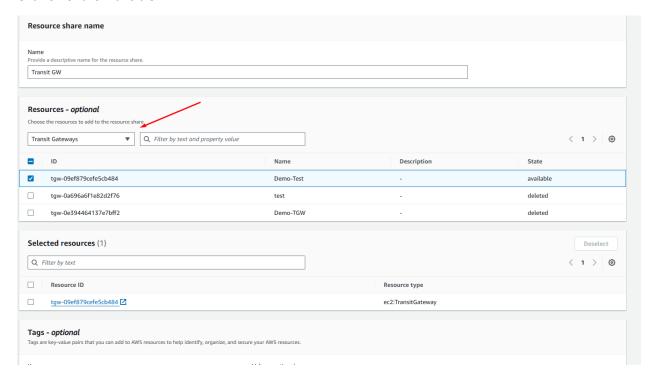


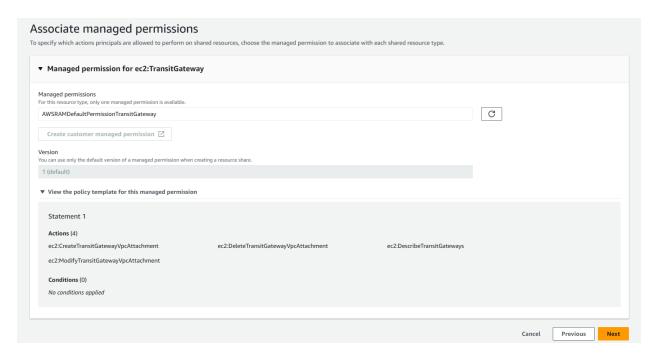
Follow the same thing for propagation.

Then finally update the Route Table.

We have setup the Transit Gateway, now its time to share the Transit Gateway with Other AWS account, so that Spoke VPC can talk to On-Prem via a Transit Gateway.

Click on Share Transit GW.





specify the AWS account number with whom you want to share.

Once it's shared, go to the AWS account, and create the VPC attachment.