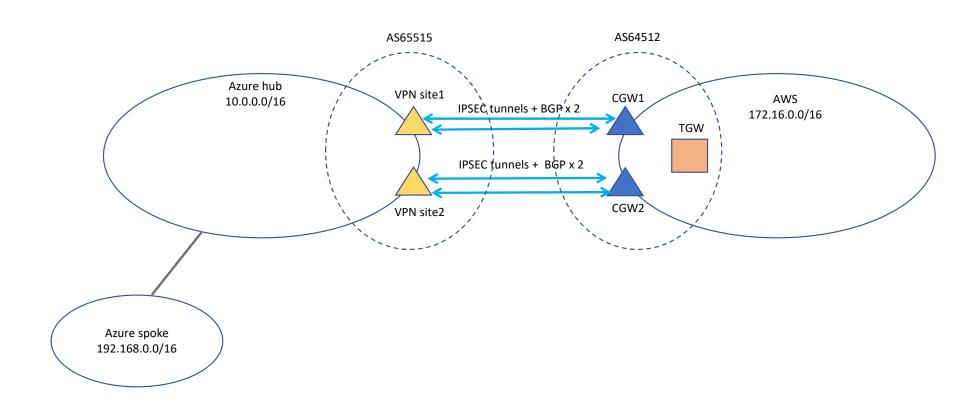
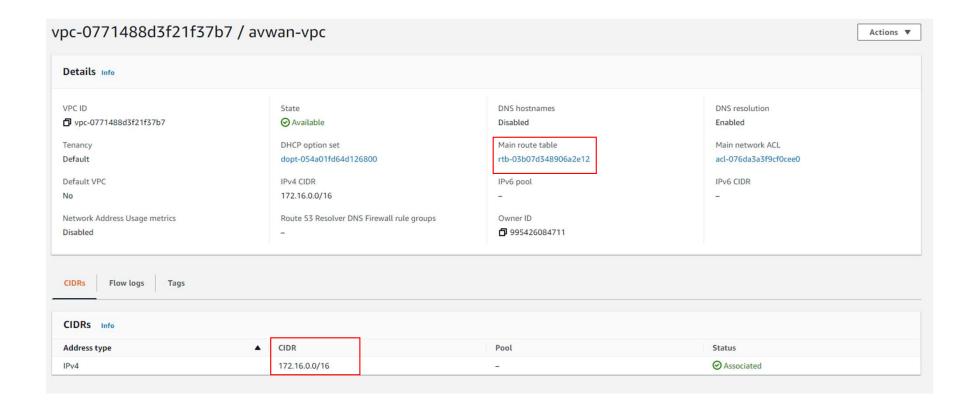
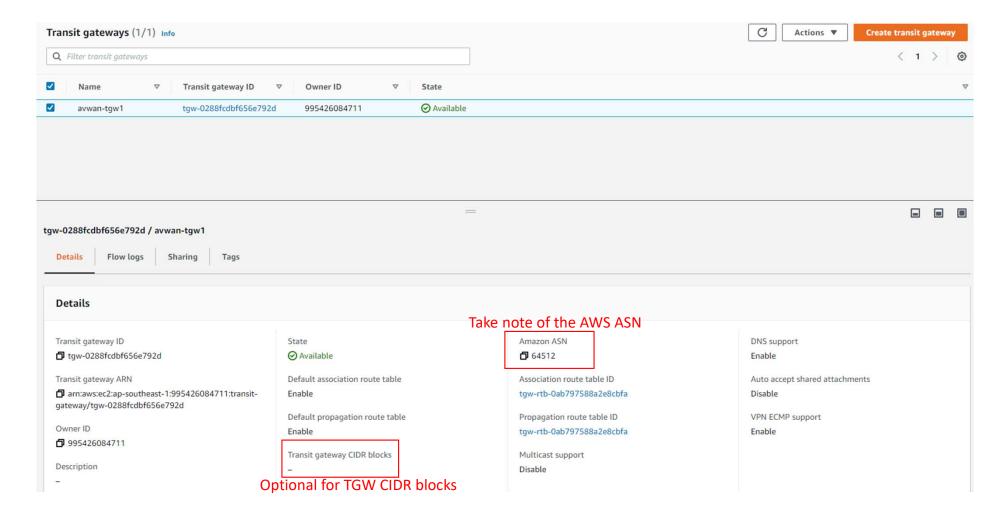
S2S VPN between Azure VWAN Hub and AWS TGW



<u>AWS configuration – VPC setup</u>

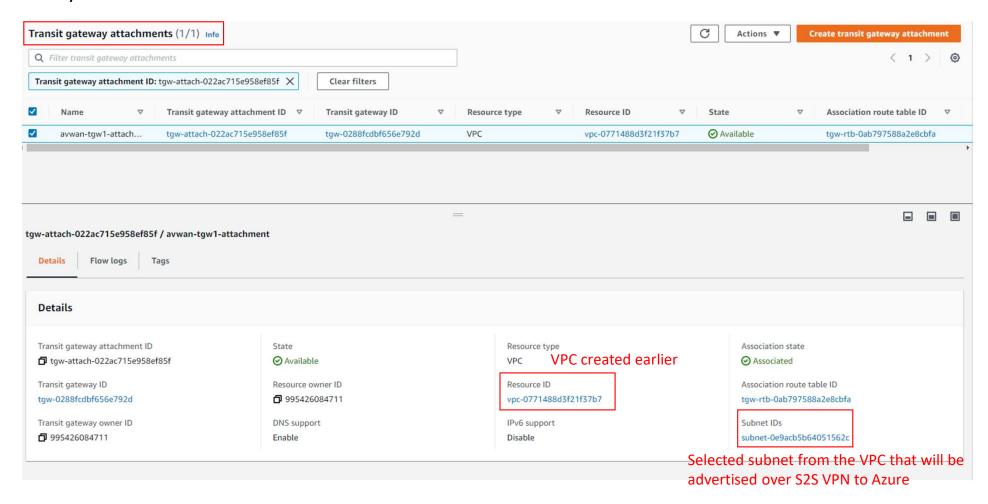


AWS configuration – TGW



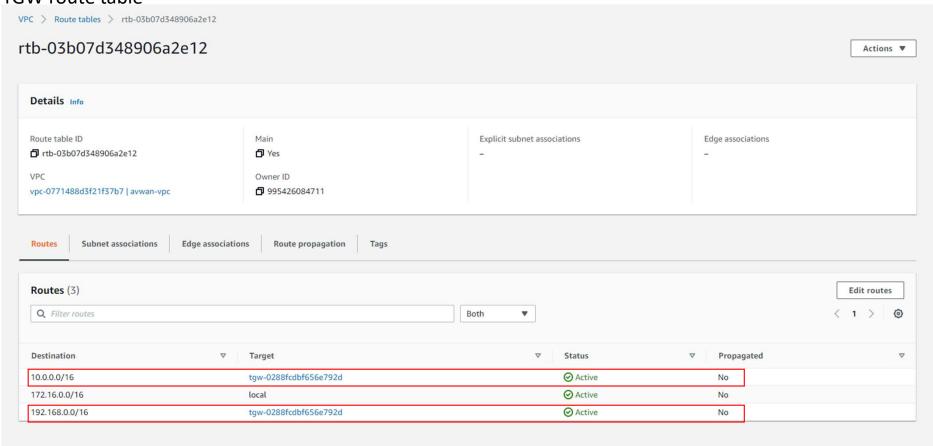
<u>AWS configuration – TGW attachment to VPC</u>

Here you need to create TGW attachment to attach the TGW to the VPC



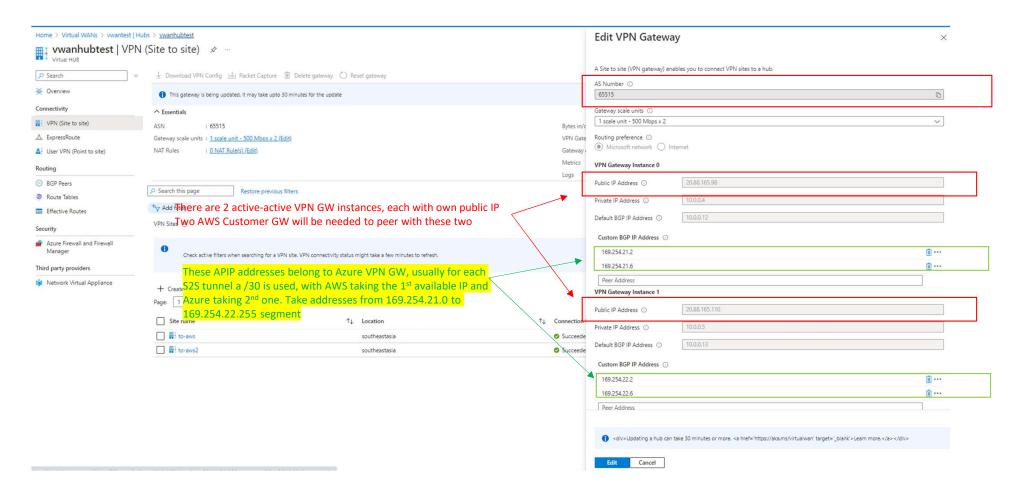
<u>AWS configuration – Modify VPC route table to route Azure subnets to TGW</u>

On the VPC route table, route the Azure subnets of 10.0.0.0/16 and 192.168.0.0/16 to the TGW. This is done manually. TGW will learn of these prefixes via BGP later. This step is needed as VPC route table \neq TGW route table



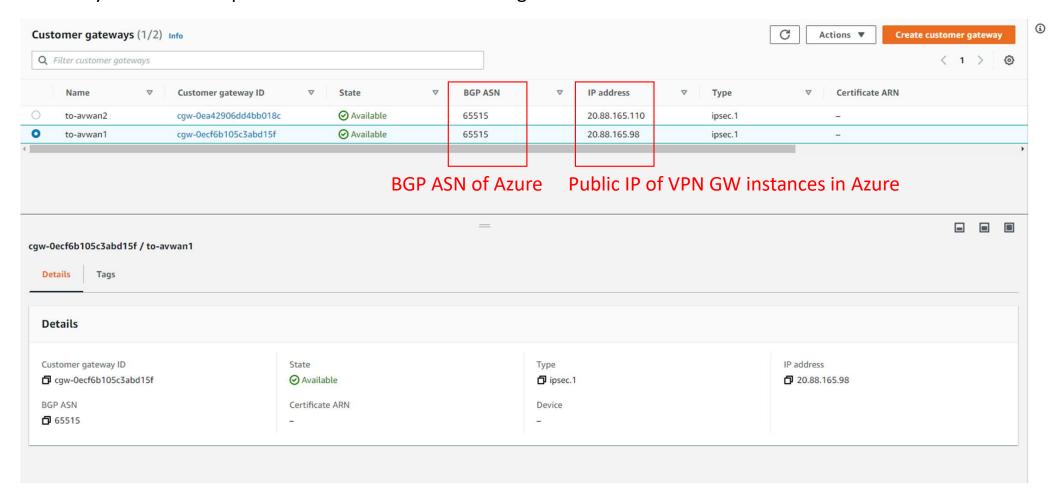
Azure configuration – Create new VPN Gateway under VWAN Hub

Assume VWAN and VWAN Hub are setup, create VPN gateway under VWAN Hub. Note the ASN and public IP of the Gateway Instance. Also provide APIP addresses in the range 169.254.21.0 to 169.254.22.255



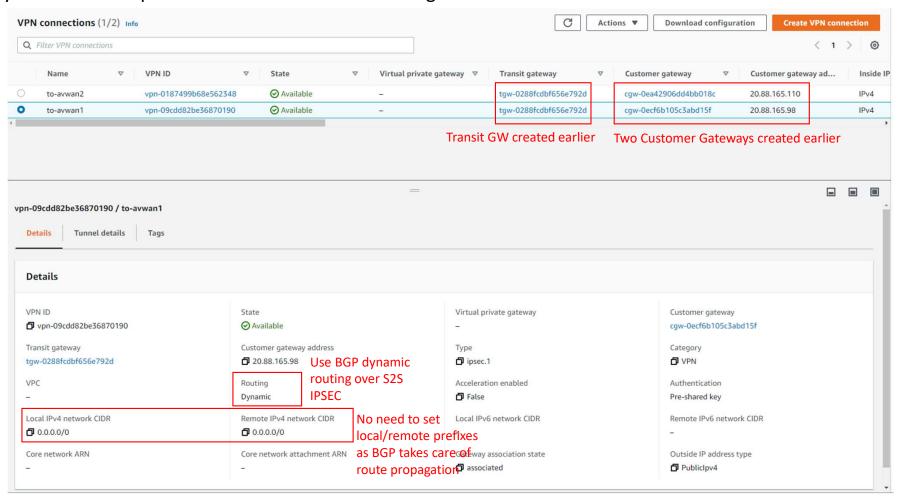
AWS configuration - Create two Customer Gateways each representing the VPN GW instances on Azure

Assume VWAN and VWAN Hub are setup, create VPN gateway under VWAN Hub. Note the ASN and public IP of the Gateway Instance. Also provide APIP addresses in the range 169.254.21.0 to 169.254.22.255



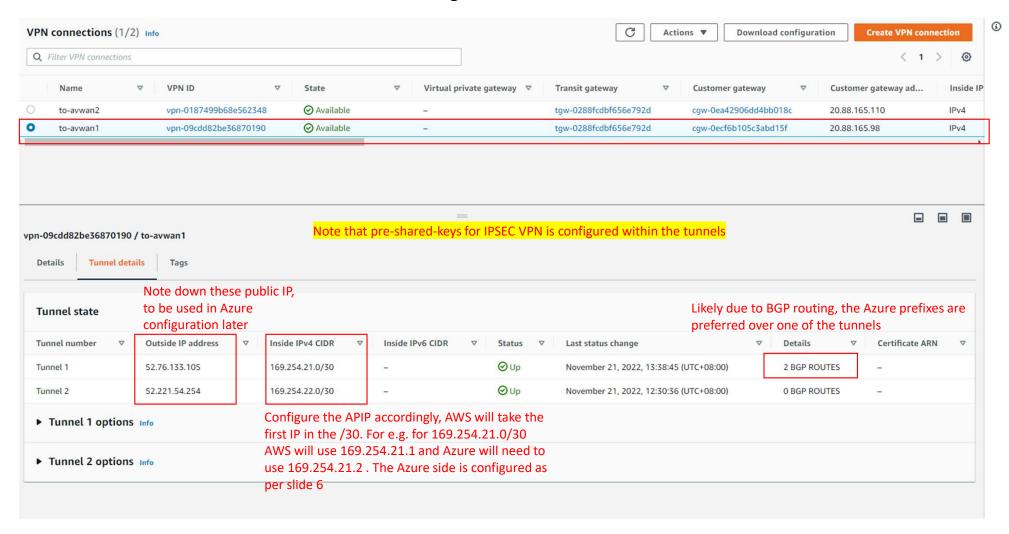
AWS configuration - Create S2S VPN using the CGW and TGW

Assume VWAN and VWAN Hub are setup, create VPN gateway under VWAN Hub. Note the ASN and public IP of the Gateway Instance. Also provide APIP addresses in the range 169.254.21.0 to 169.254.22.255



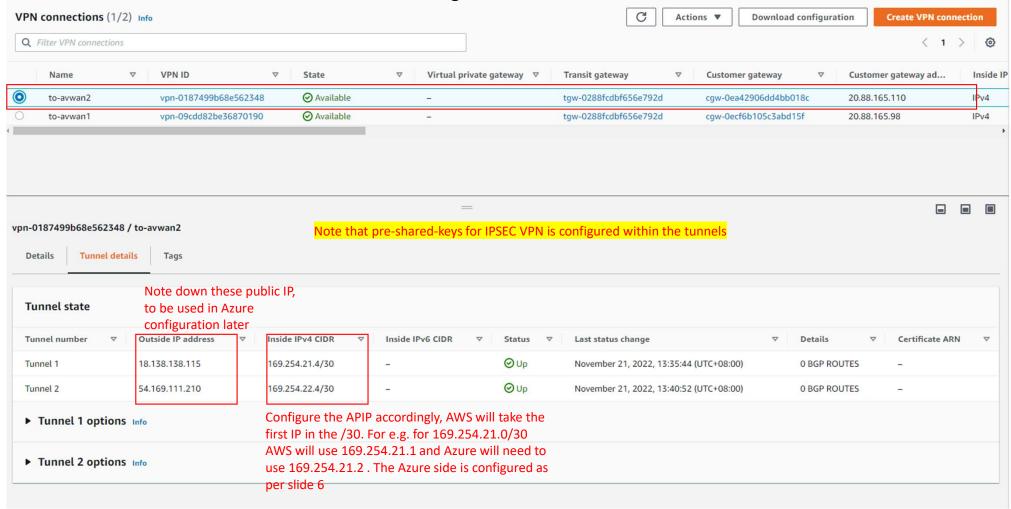
AWS configuration – Create S2S VPN using the CGW and TGW

Each S2S VPN has 2 tunnels – enter the details using the correct APIP addresses

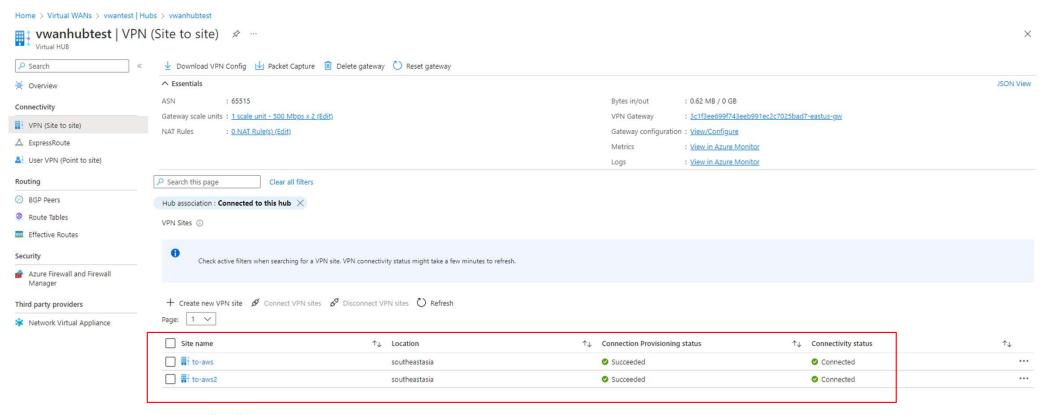


AWS configuration - Create S2S VPN using the CGW and TGW

Each S2S VPN has 2 tunnels – enter the details using the correct APIP addresses

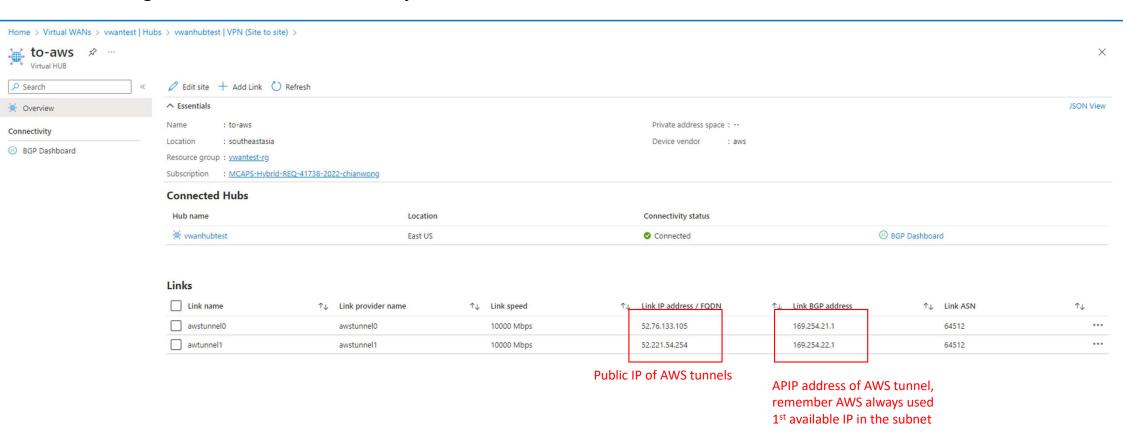


Here 2 S2S VPN objects are used, each with 2 tunnels. You can also choose to use 1 S2S VPN object with 4 tunnels



Two VPN "site" objects created each with 2 tunnels, you can also use 1 VPN site object with 4 tunnels

Tunnel configuration for one of the VPN objects

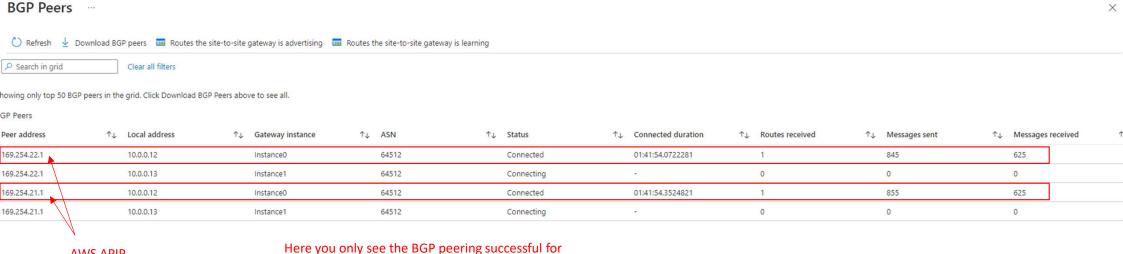


BGP peering status for one of the VPN objects

Home > Virtual WANs > vwantest | Hubs > vwanhubtest | VPN (Site to site) > to-aws >

AWS APIP

addresses

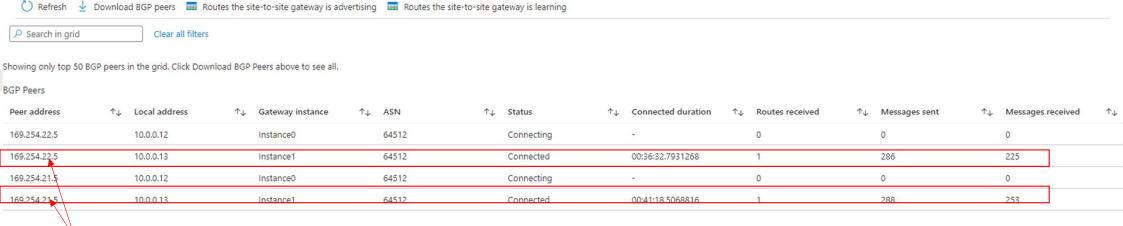


instance0 as the successful BGP peering for instance1

is on the other VPN object. In other words, this VPN

object peers with only 1 of the AWS CGW.

BGP peering status the other VPN object



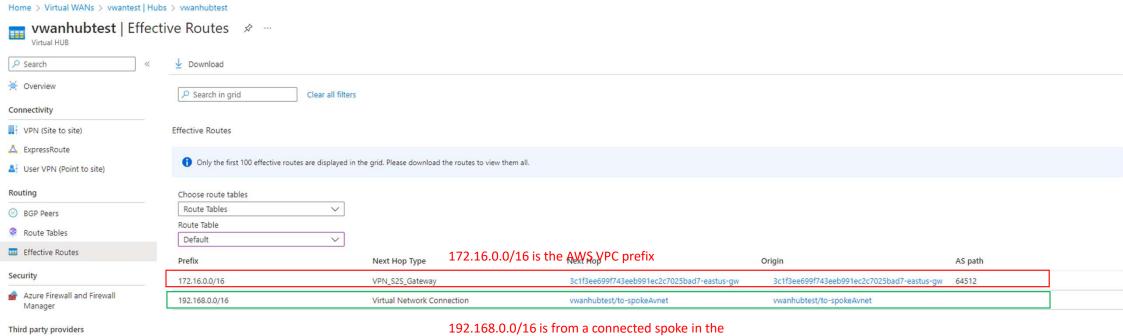
AWS APIP addresses

Here you only see the BGP peering successful for instance1 as the successful BGP peering for instance0 is on the other VPN object. In other words, this VPN object peers with only 1 of the AWS CGW.

Azure Route Table on VWAN hub

Network Virtual Appliance

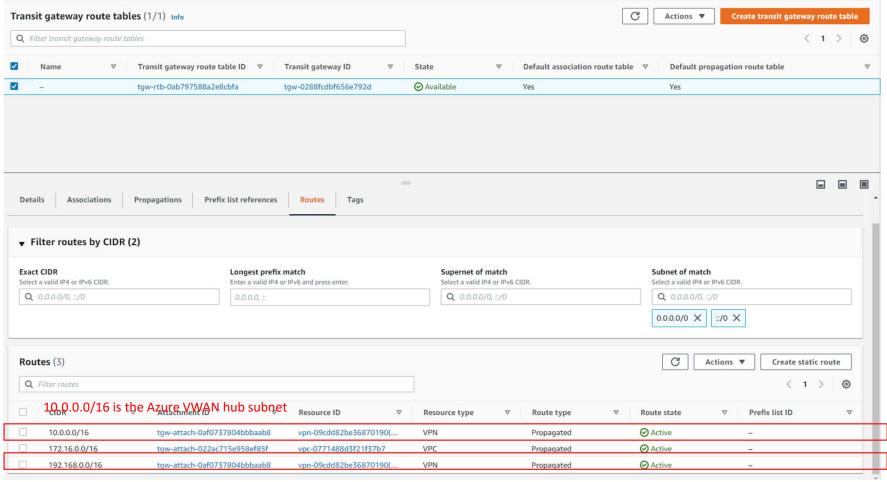
The 172.16.0.0/16 AWS prefix is received via S2S VPN as confirmed



VWAN, this will auto-propagate to AWS

AWS route table on TGW

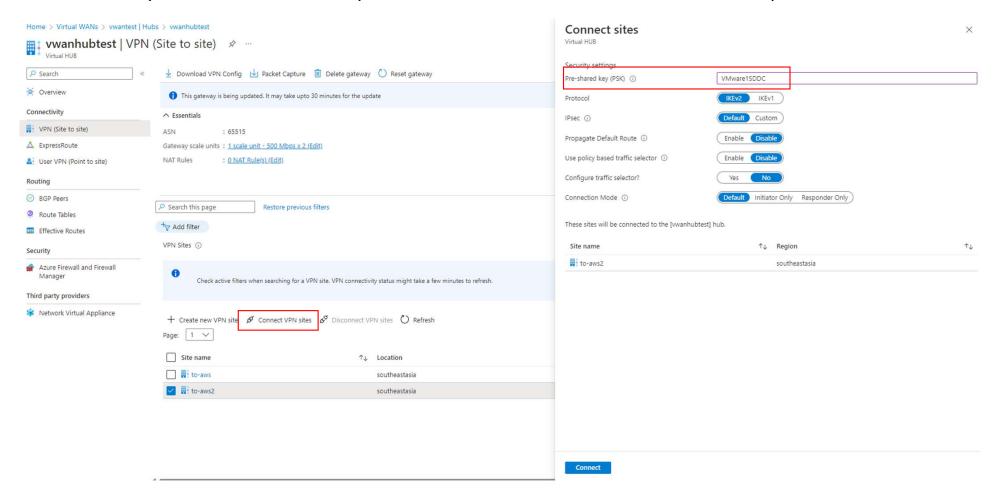
Both 10.0.0.0/16 and 192.168.0.0/16 are received from Azure

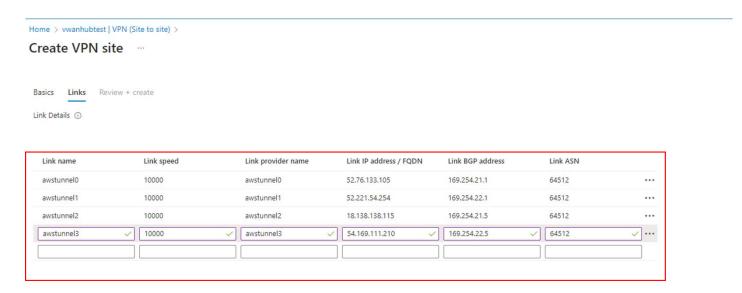


192.168.0.0/16 is the Azure spoke subnet that's connected to VWAN hub

Other points to note – how to key in PSK in Azure

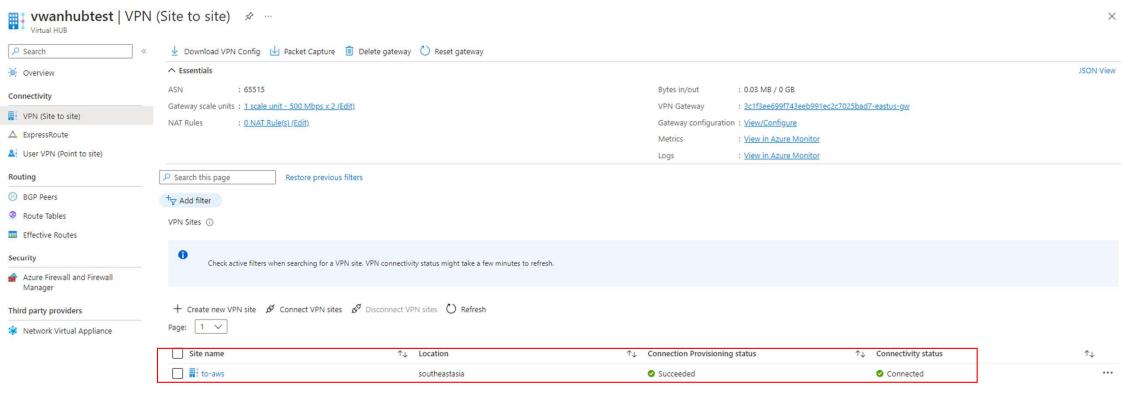
In Azure, after you create the S2S VPN, you have to "connect VPN site" first before the option to enter PSK shows

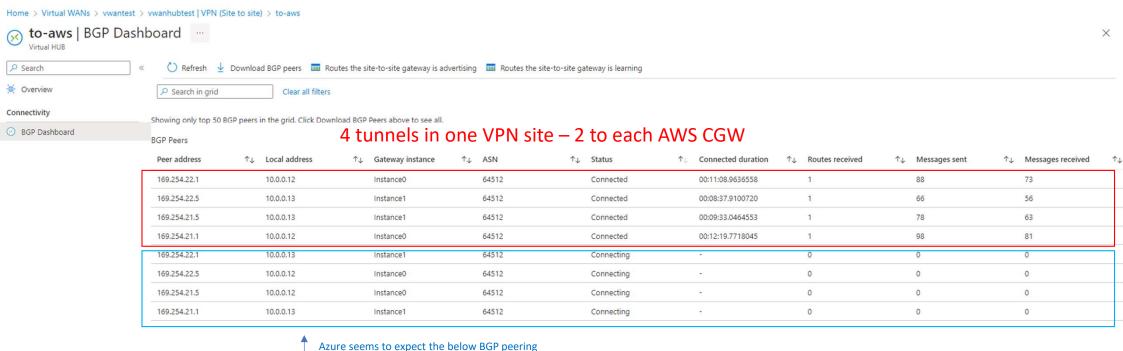




4 tunnels in one VPN site - 2 to each AWS CGW







VPN GW instance0 --2tunnels-- CGW1
VPN GW instance0 --2tunnels-- CGW2
VPN GW instance1 --2tunnels-- CGW1
VPN GW instance1-2tunnels-- CGW2

But AWS only expects the below
VPN GW instance0 --2tunnels-- CGW1
VPN GW instance1-2tunnels-- CGW2

Hence the discrepancy

