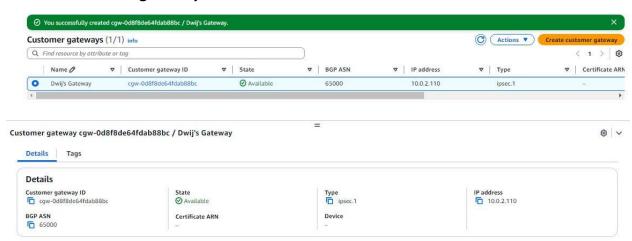
Day-9

Today I have understood terms like tunneling, transit gateway, customer gateway and

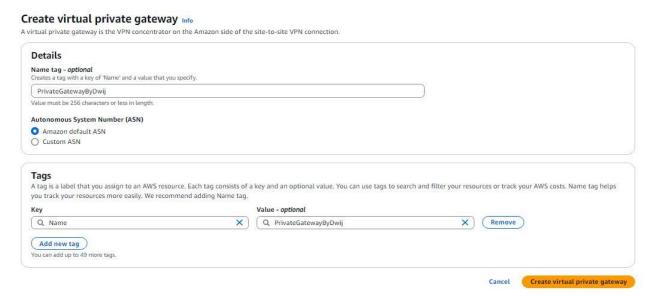
with the help of all of that I am going to perform a Site-To-Site VPN connection. It's just like peering but this can be done between On-Site Premises and AWS Architecture.

Here are the steps that I performed for Site-To-Site VPN connection:

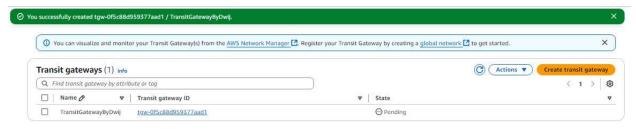
Create a customer gateway: Defines IP of customer to connect it to the route and tunnel.



Creating a Virtual Private Gateway (VPG): VPG connects your on-premises network to your AWS VPC.



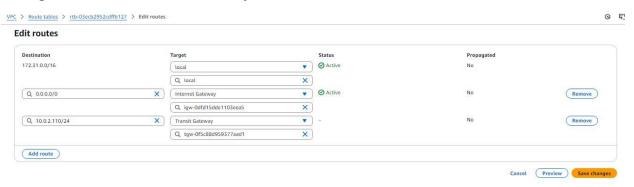
Creating a Transit Gateway:



Enabling Route Propagation:



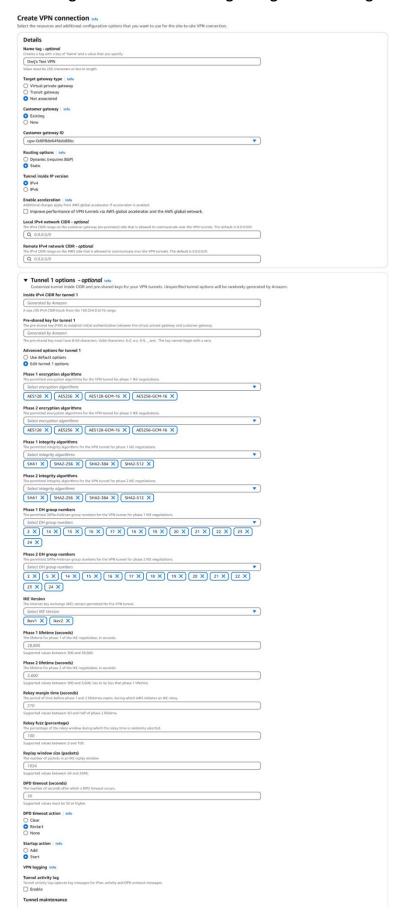
Adding New route to Transit Gateway:



Attaching the Virtual Private Gateway to VPC:



Creating VPN with the following config and tunneling:



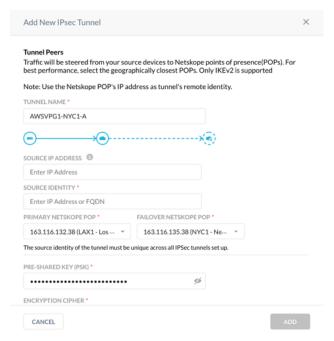
Tunnel endpoint lifecycle control | Info
Tunnel endpoint lifecycle control provides control over the schedule of endpo

Cancel Create VPN connection

Download Configuration:



Example of adding Tunnel:

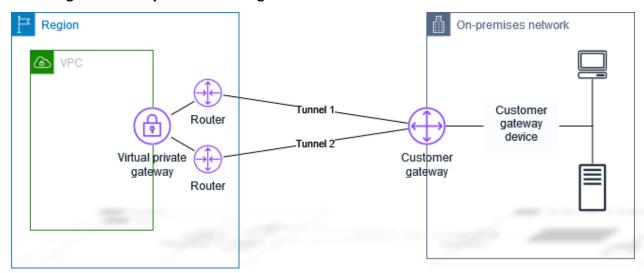


Apart than this, I also completed a small course on CompTIA Network+: Network Operations, from Infosys Springboard. I learned about network availability, including statistics and sensors. I explored the Simple Network Management Protocol (SNMP) and how to use network device logs like Syslog, Audit etc. I also learned environmental factors like temperature, humidity, and electrical issues as well as data centre's Hot aisle to cold aisle, problem with wirings etc. I learned about organizational documents and policies, and how to plan for incident response, disaster recovery. I explored hardening and security policy planning strategies, and the importance of maintaining essential documentation.

CompTIA Network+: Network Operations

TYPE	Course	
STATUS	Completed	
STARTED	12/26/2024	
COMPLETED	12/27/2024	
HIGHEST SCORE	85	

The task given to analyze the following VPN Architecture:



Solution:

Here a VPC is created in an AWS Region and on the other side there is a Local On-Premises Network. They both need to be connected to each other for communication between them. So AWS creates a Virtual Private Gateway for traffic to enter which is connected to router which gives route to the traffic that is coming through the tunnels which are connected to the Customer Side gateway on the Local On-Premises.

AWS Components Needed:

Component	Description	
Virtual Private Gateway (VPG)	Connects your on-premises network to	
	your AWS VPC.	
Customer Gateway	Defines IP of customer to connect it to the	
	route and tunnel.	
Virtual Private Cloud (VPC)	Your network in AWS where your	
	resources are stored.	
Routers	Devices that route traffic between your	
	on-premises network and the VPN tunnels	
Tunnel Connection To transfer the network from		
	point to another	