Transit GateWay

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Guidance & Support: Eng. Saad El-Kenawy

Why Use AWS Transit Gateway



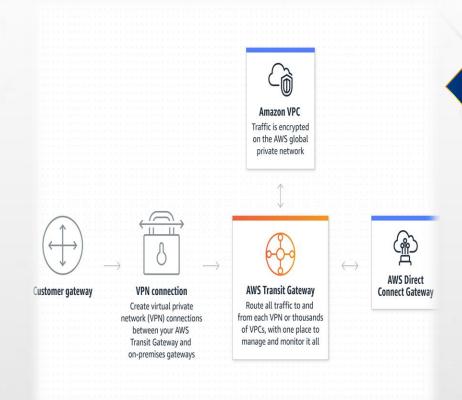
AWS Transit Gateway helps to design and implement networks at scale by acting as a cloud router.



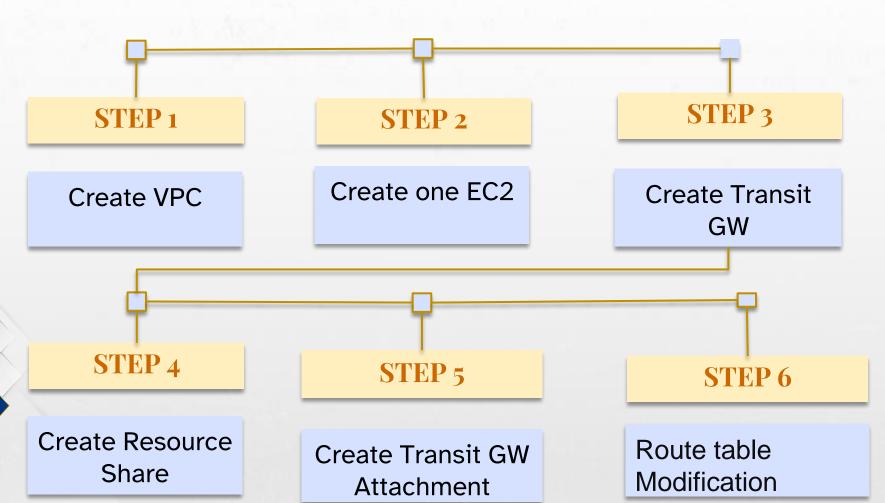
As the network grows, the complexity of managing incremental connections can slow the implementation down.



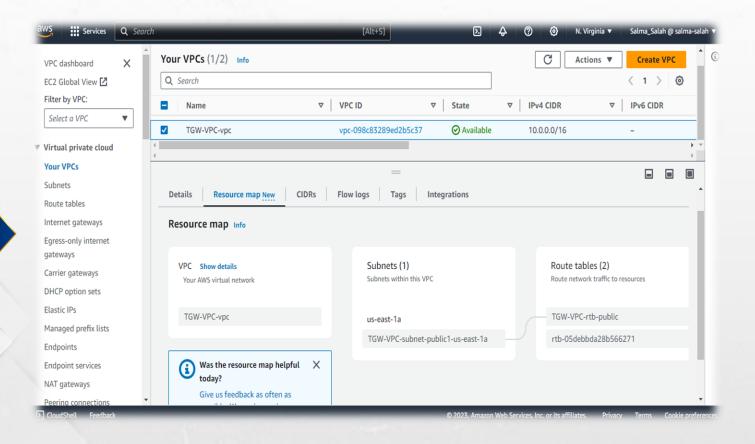
AWS Transit Gateway connects VPCs and on-premises networks through a central hub.



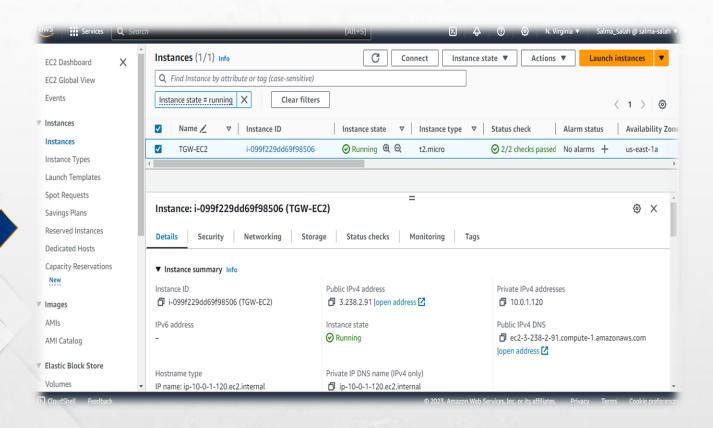
Steps



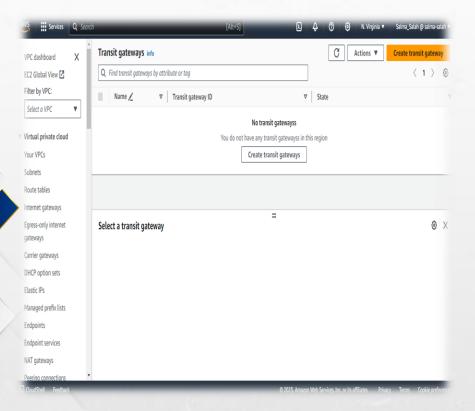
1) Create a VPC

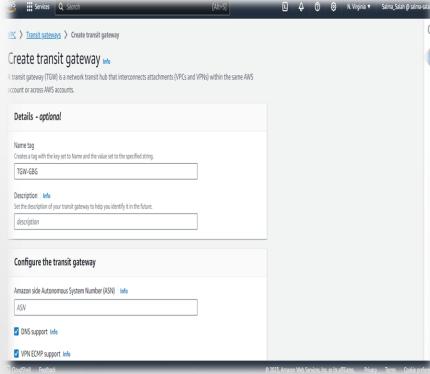


2) Create an EC2 instance

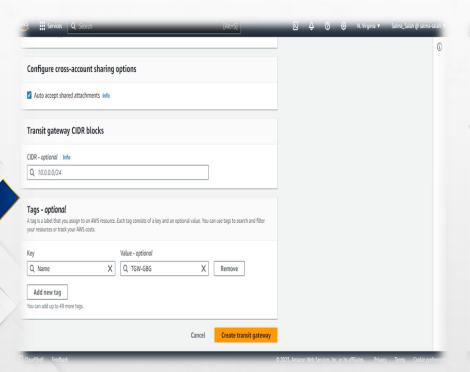


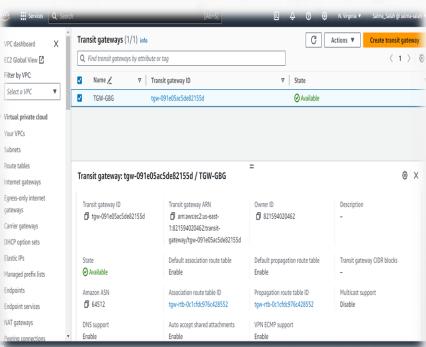
3) Create a Transit Gateway



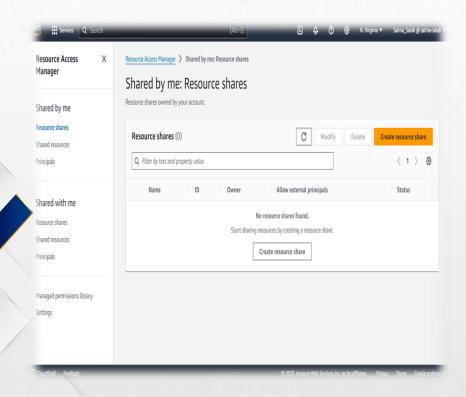


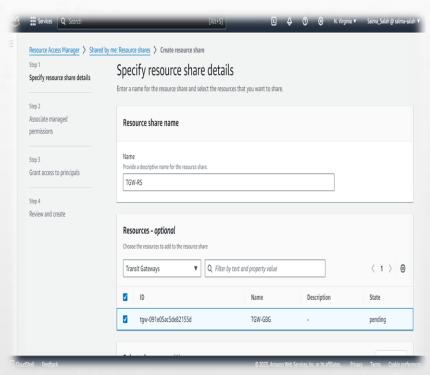
Transit Gateway configuration



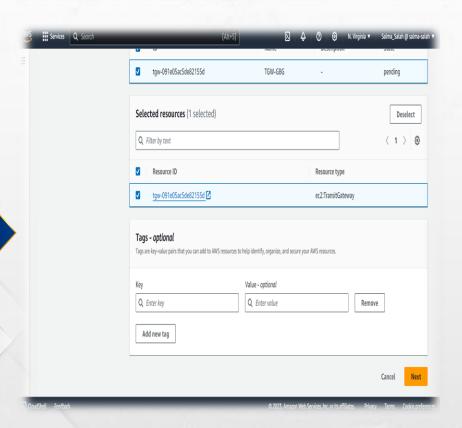


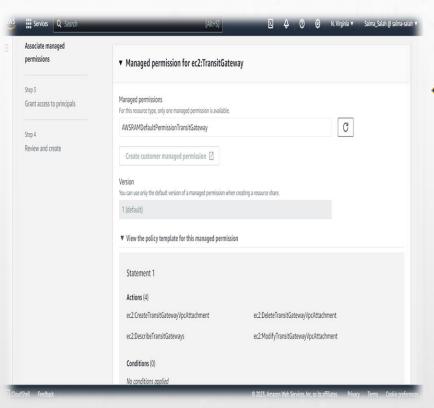
4) Create a Resource Share



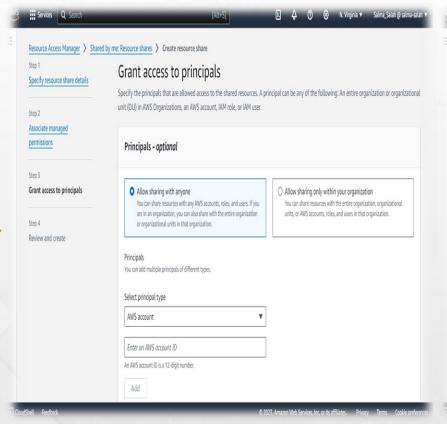


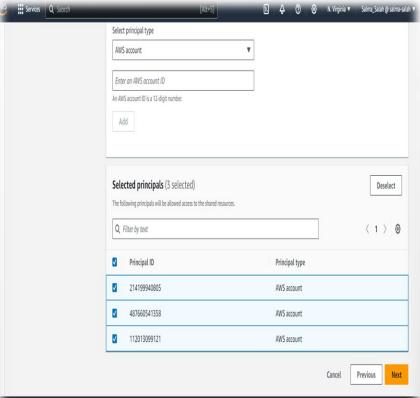
Resource Share Configuration



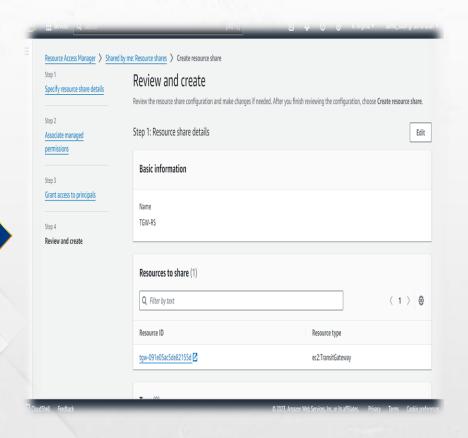


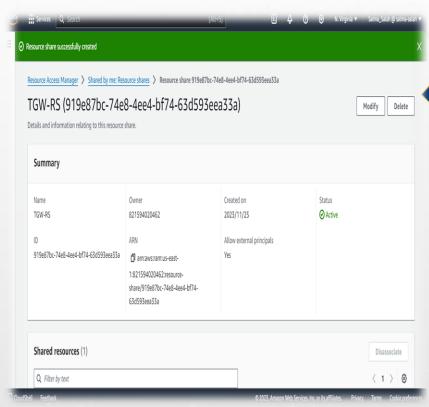
Resource Share Configuration





Review Resource Share

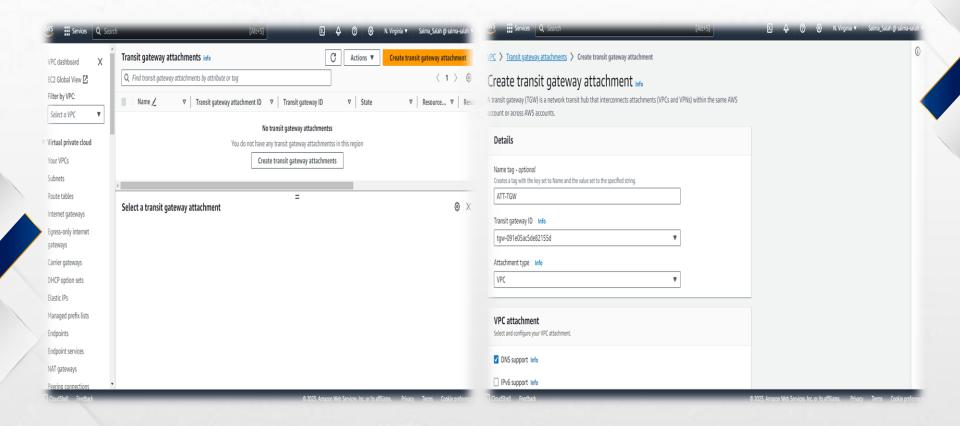




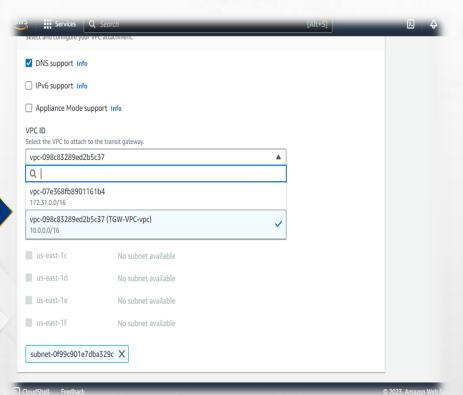
After creating the resource share

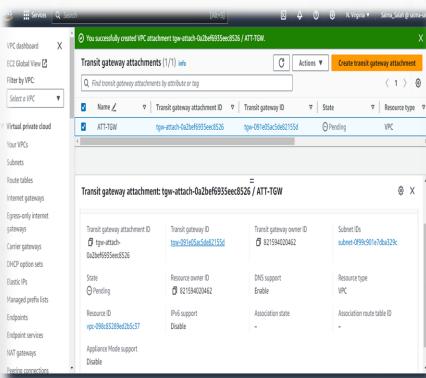
- In Resource share the selected principals are the account IDs of accounts that want to connect VPCs through the Transit Gateway.
- After adding these accounts IDs a request will be sent to each of those accounts.
- Each account will have to accept the request to be able to connect through the Transit Gateway.
- After accepting the request each account will be able to create the Transit Gateway Attachment.

5) Create Transit Gateway Attachment

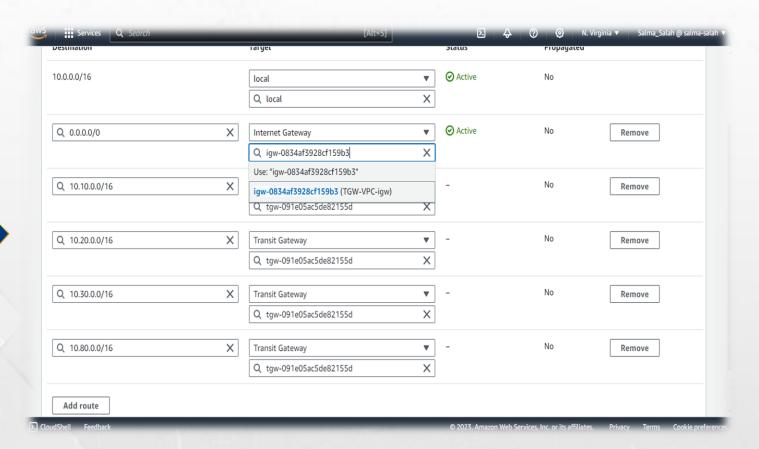


Transit Gateway Attachment Configuration





6) Route table Modification



7) Testing Connection between all VPCs attached to the TGW

