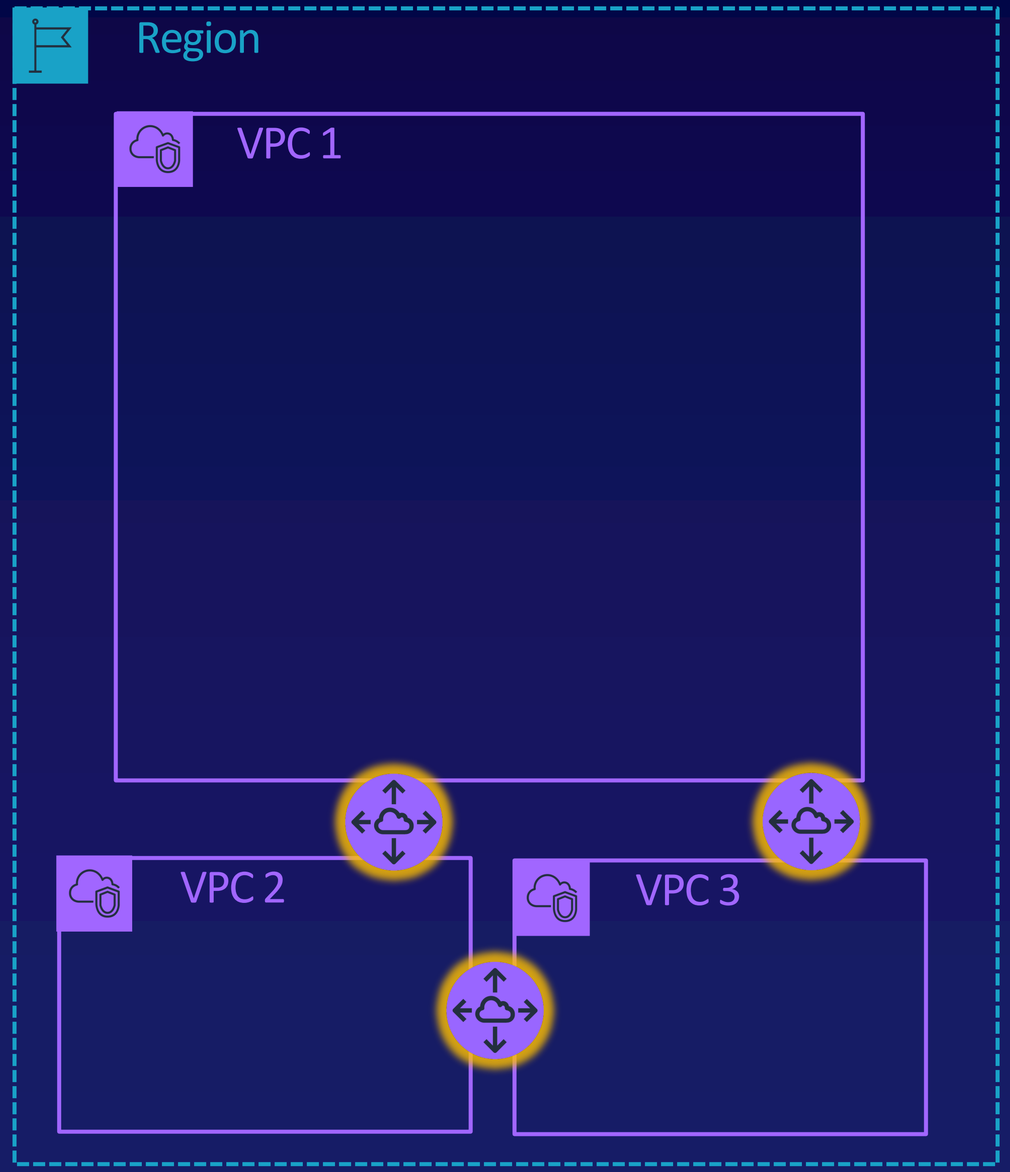
Network Size Limits

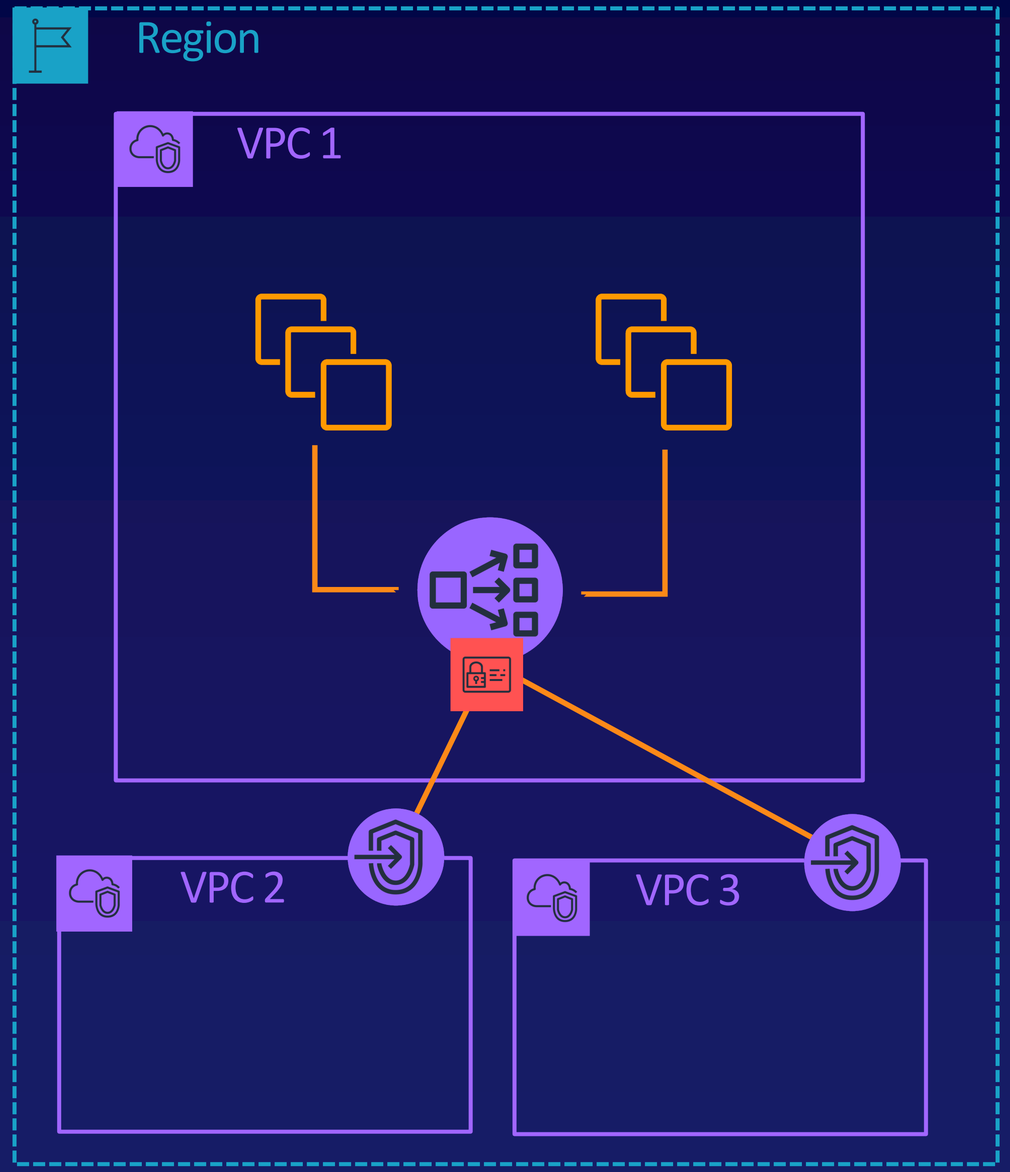
Steven Moran
TECHNICAL INSTRUCTOR

VPC Peering



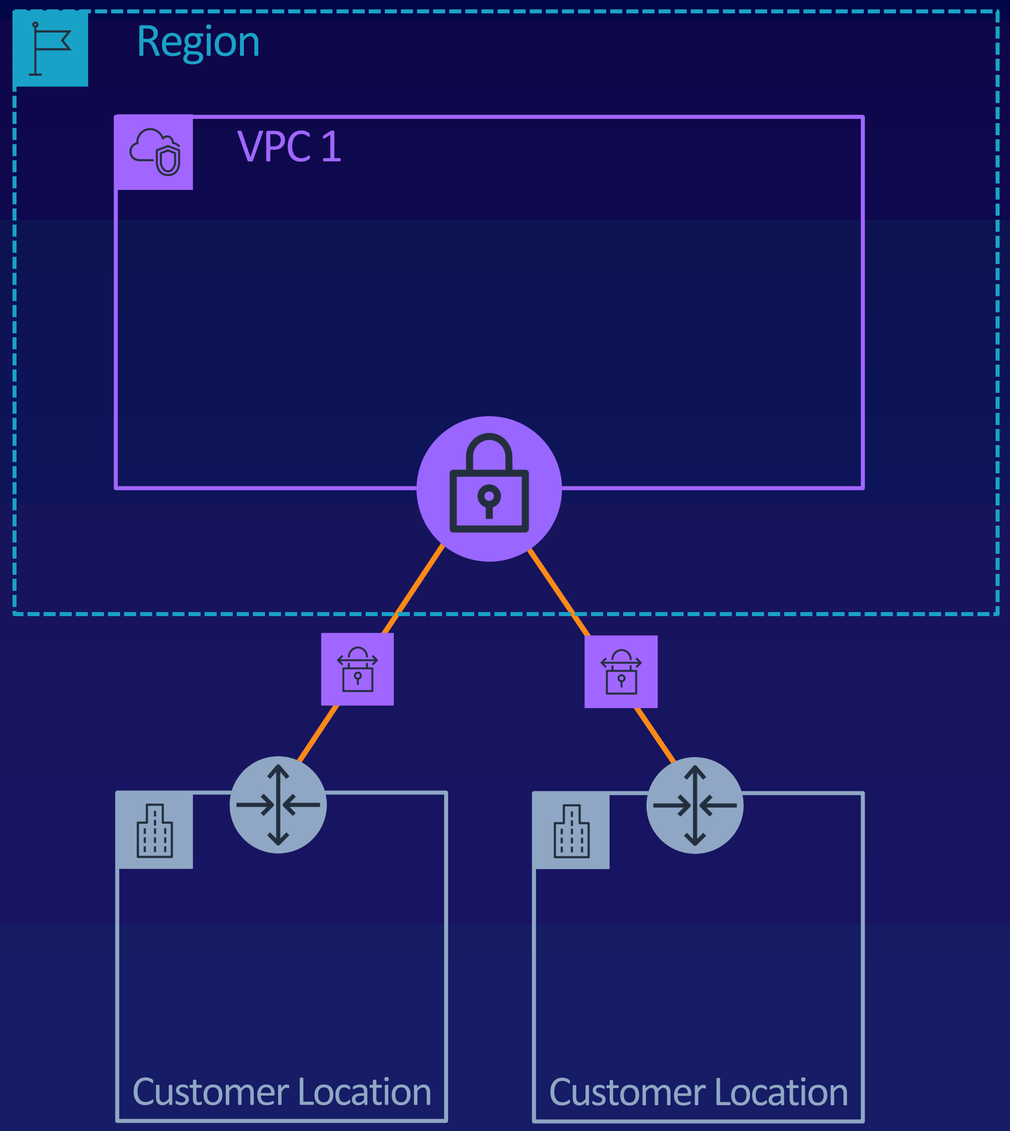
- Only connects two specific VPCs.
- A VPC may support up to 50 VPC Peering connections.
- Routes must be manually added to VPC route tables to support traffic flow

VPC Endpoint Services



- NLBs can handle around 55,000 simultaneous connections.

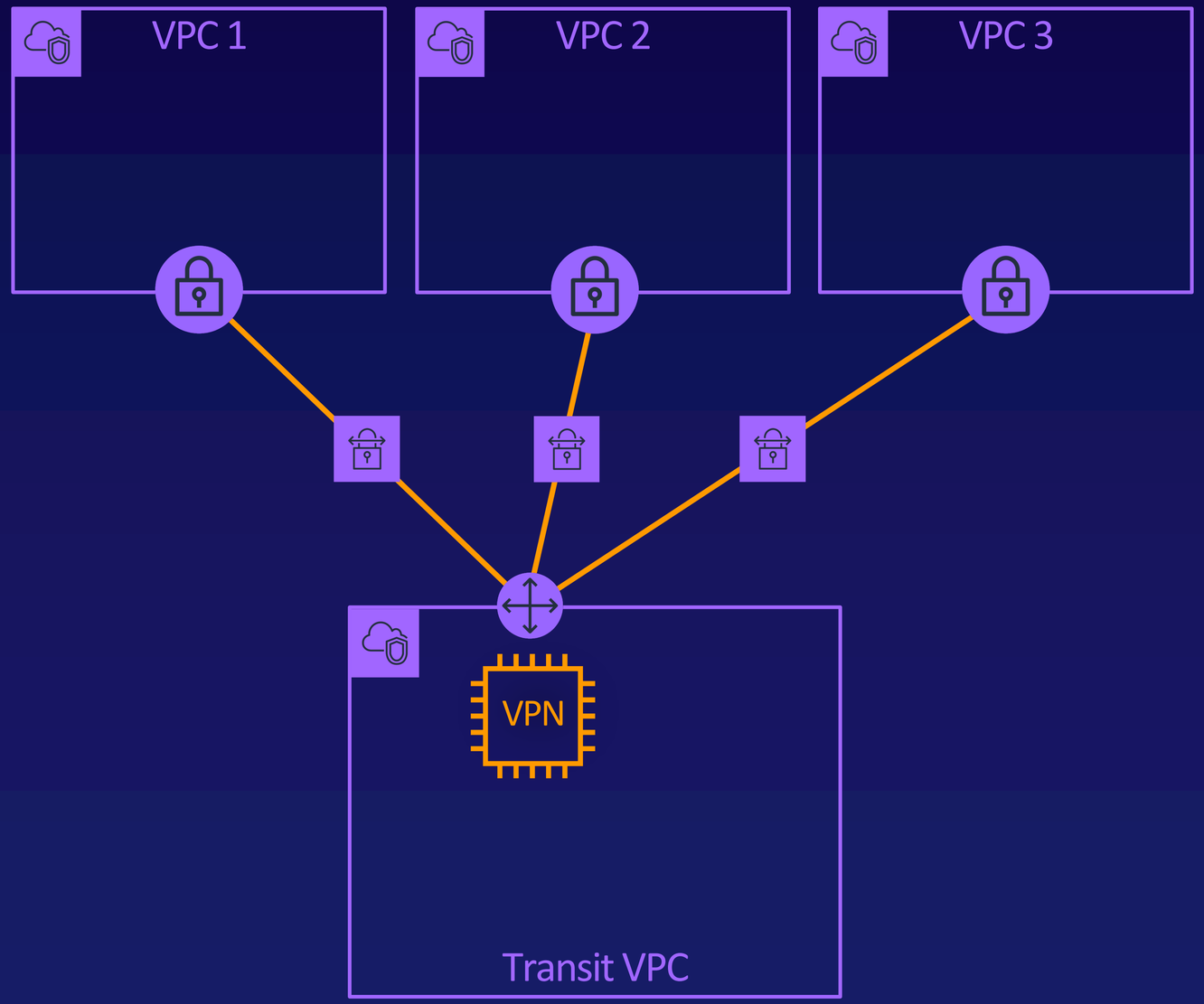
AWS Site-to-Site VPN



Default per-Region limits…

- 5 VGWs.
- 10 VPN connections per VGW.
- 50 Site-to-Site VPN connections and Customer Gateways.

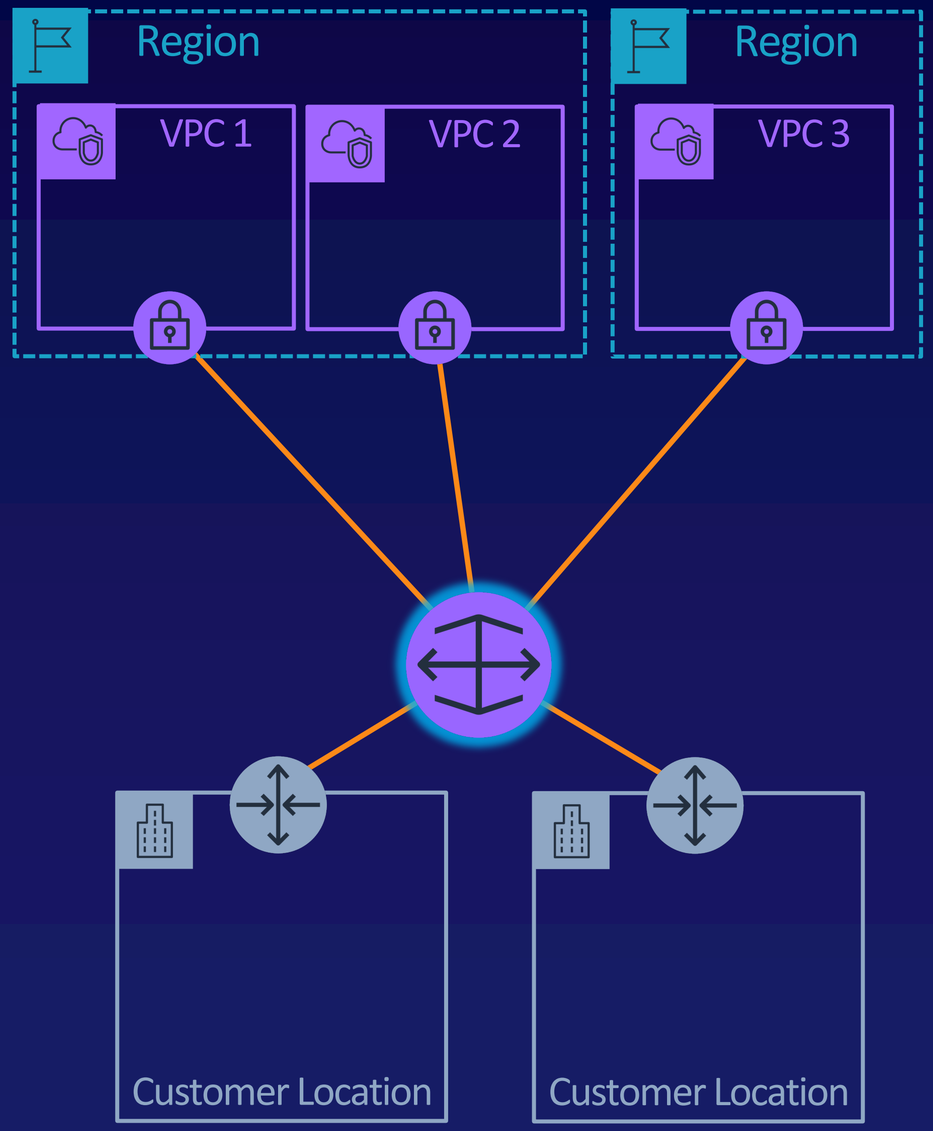
Transit VPCs



Transit VPC capabilities limited by…

- 3rd-party VPN platform.
- VPC Route table limits.
  - 50 non-propagated
  - 100 propagated
- 100 dynamic routes for VGWs.

Direct Connect Gateway

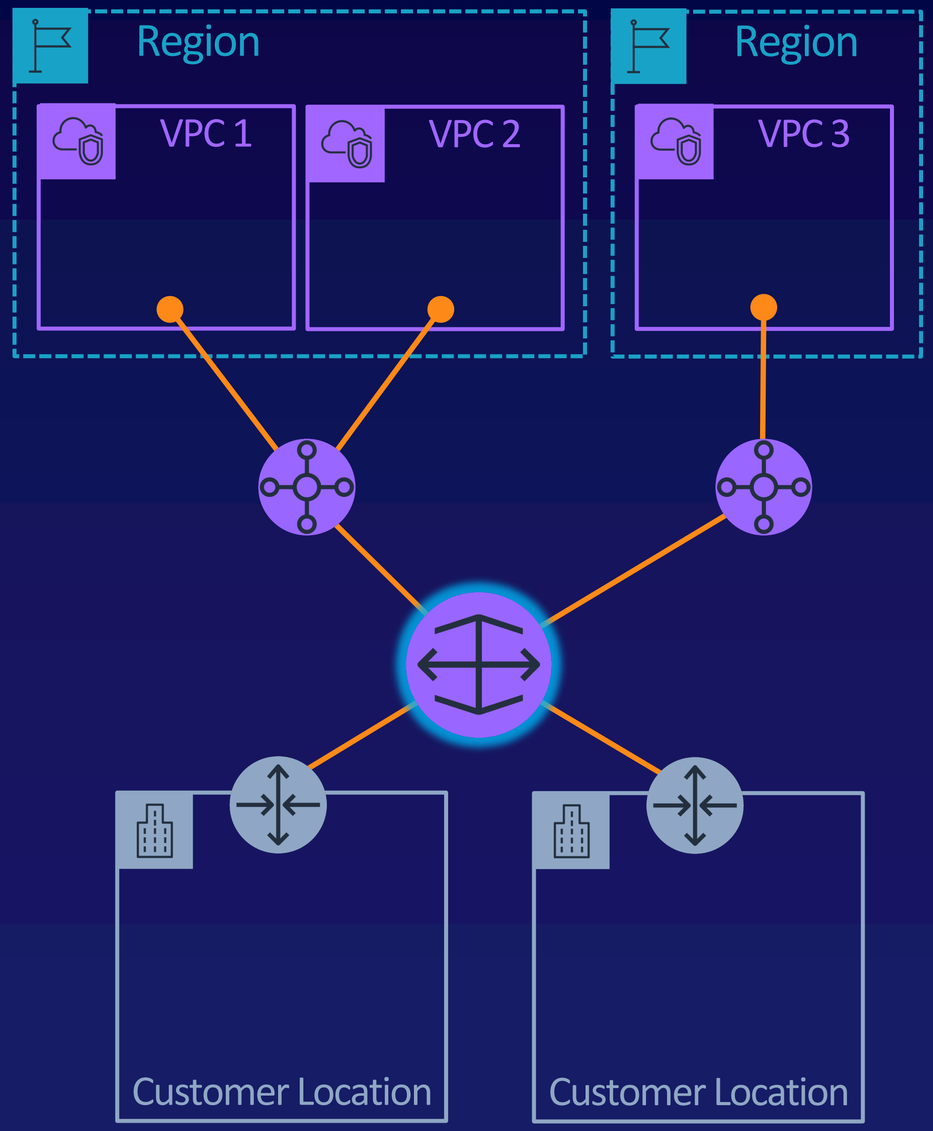


DX Gateways can connect...

- Up to 30 Private VIFs.
- Up to 10 VGWs.

OR

Direct Connect Gateway



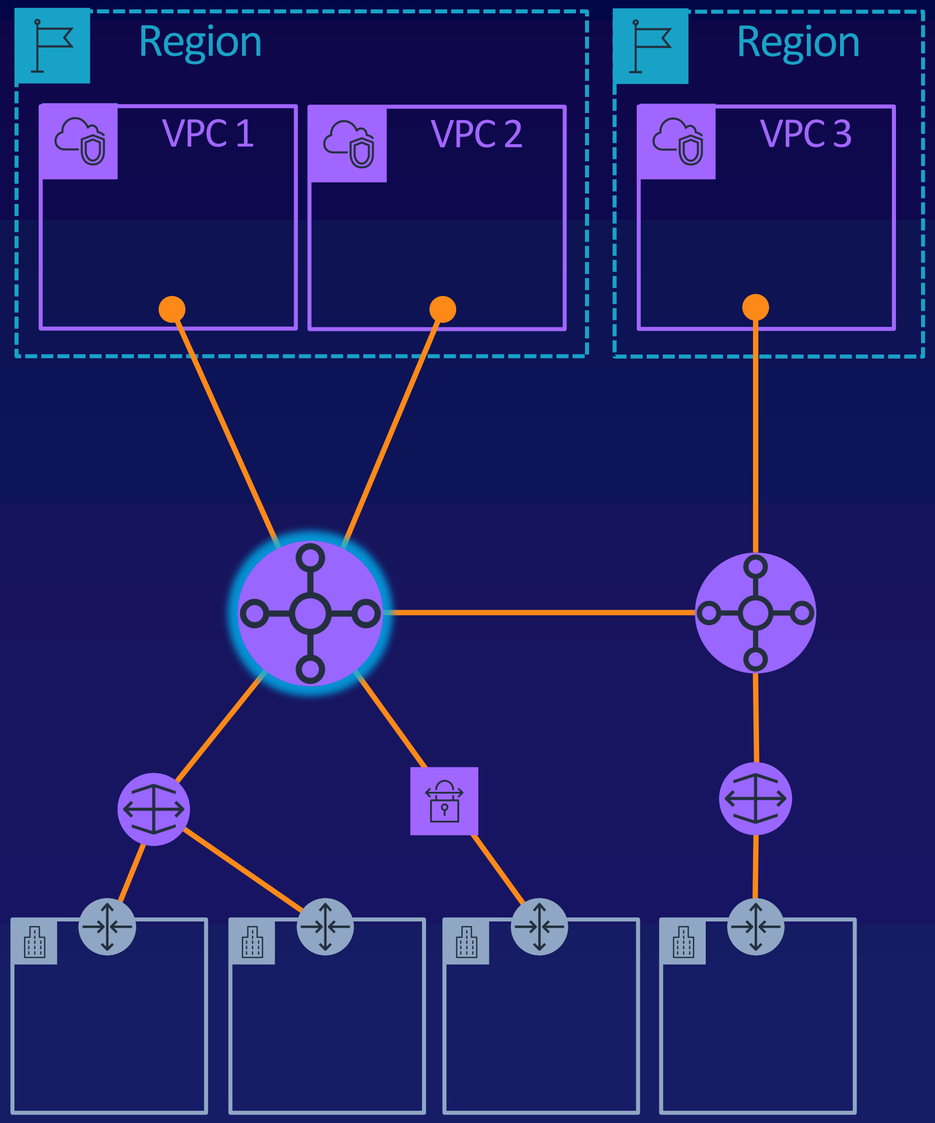
DX Gateways can connect…

- Up to 30 Private VIFs.
- Up to 10 VGWs.

OR

- Up to 30 Transit VIFs.
- Up to 3 TGWs.

Transit Gateway



Transit Gateways can support…

- Up to 5,000 attachments.
  - 20 DX Gateway attachments
- Up to 50 peering attachments.

Almost 255,000 interconnected networks!

- 20 Route Tables per TGW.
- 10,000 static routes per TGW.

Fast Takeaways

Size of interconnected network architecture is constrained by the features or services used.

Ensure route tables are correctly configured.

Use super-netting or route consolidation to reduce the number of route table entries.

Proper planning prevents pathetically poor performance.