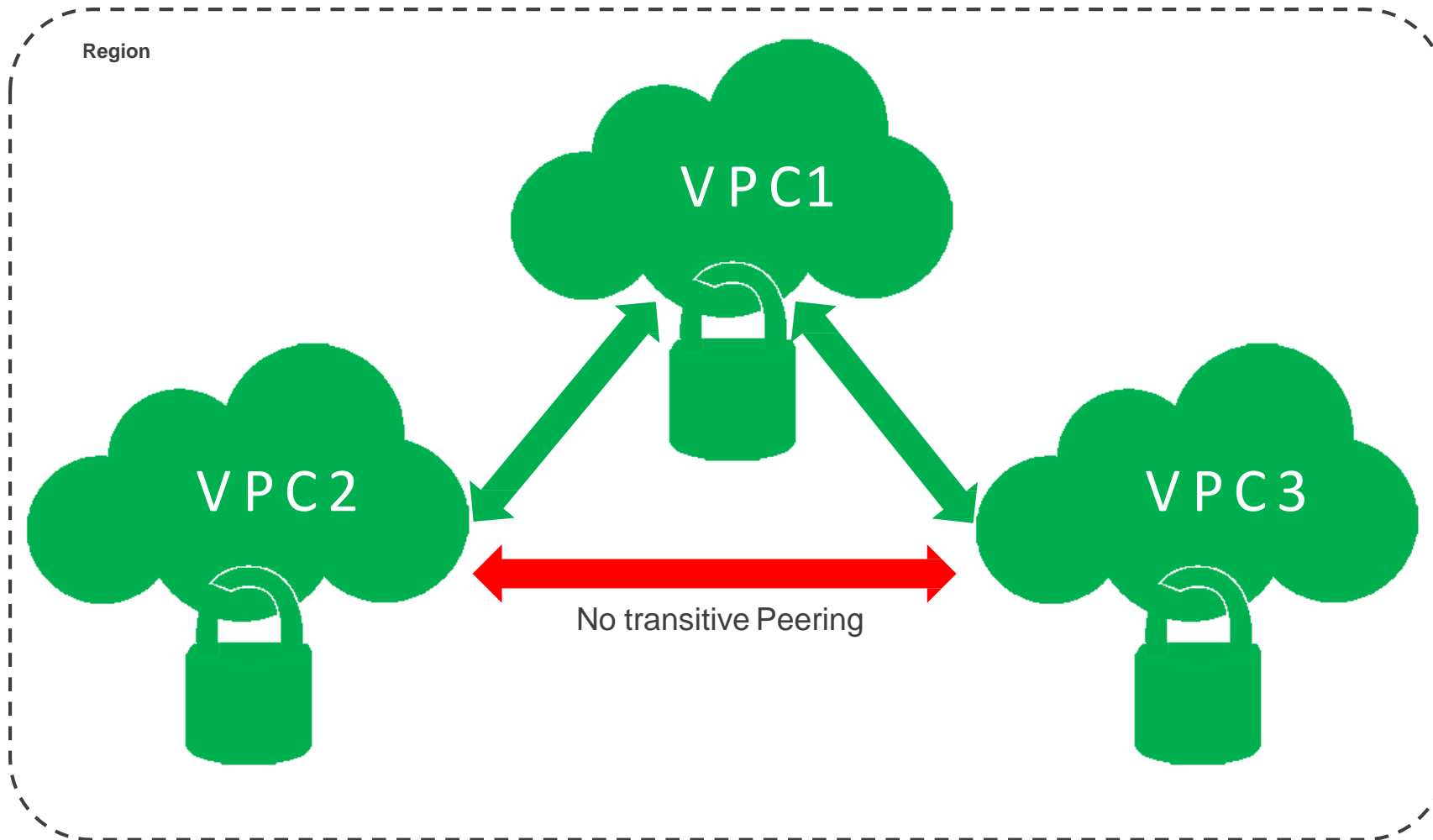


Understanding and Configuring VPC Peering, VPN, and Direct Connect



VPC Peering



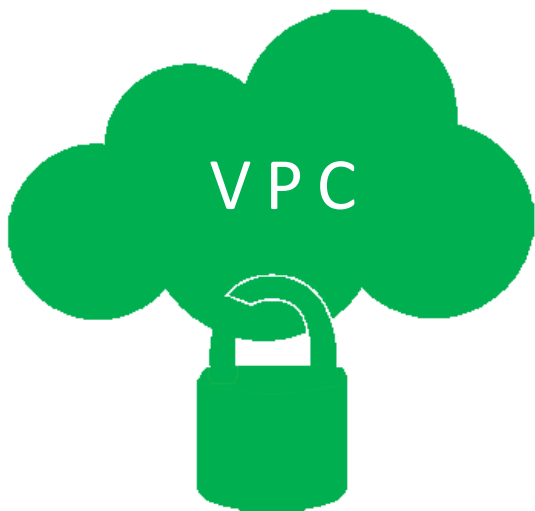
Single Region
Inter-VPC routing

Same or different
AWS account

No overlapping
network addresses

50 VPC peers per
VPC, up to 125 by
request

VPC Peering

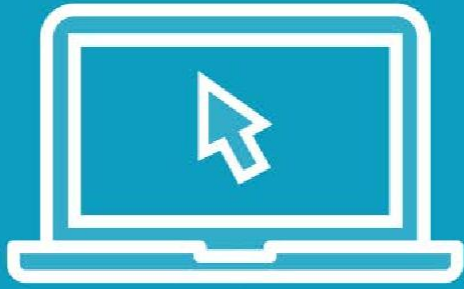


DNS is supported

Use route tables to configure routing

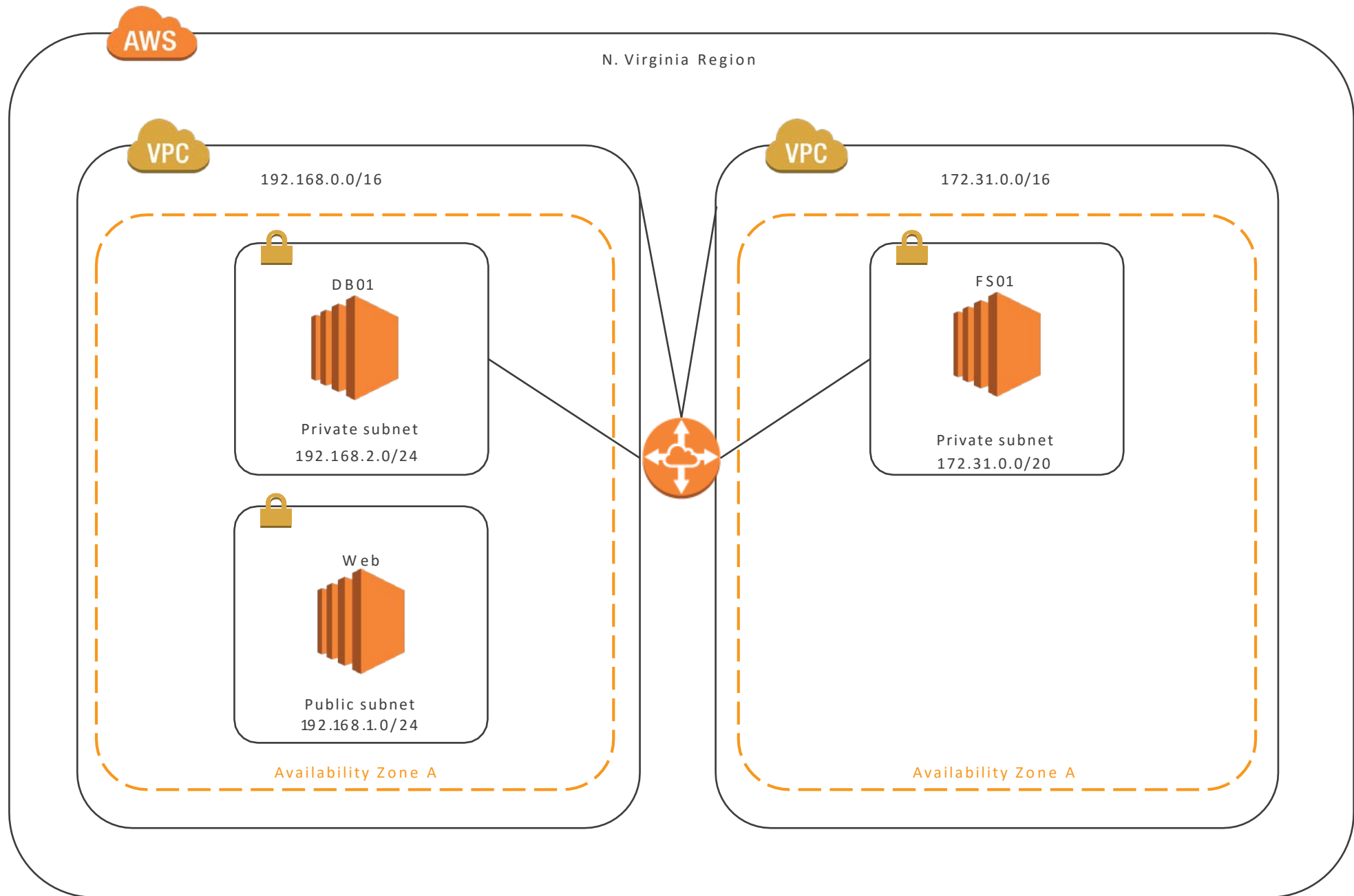
Update the inbound or outbound rules for your VPC security groups to reference security groups in the peered VPC

Demo



Configuring VPC Peering





AWS VPC Access

VPN

Hardware-
based VPN

Direct
Connect

VPN
CloudHub

Software
VPN

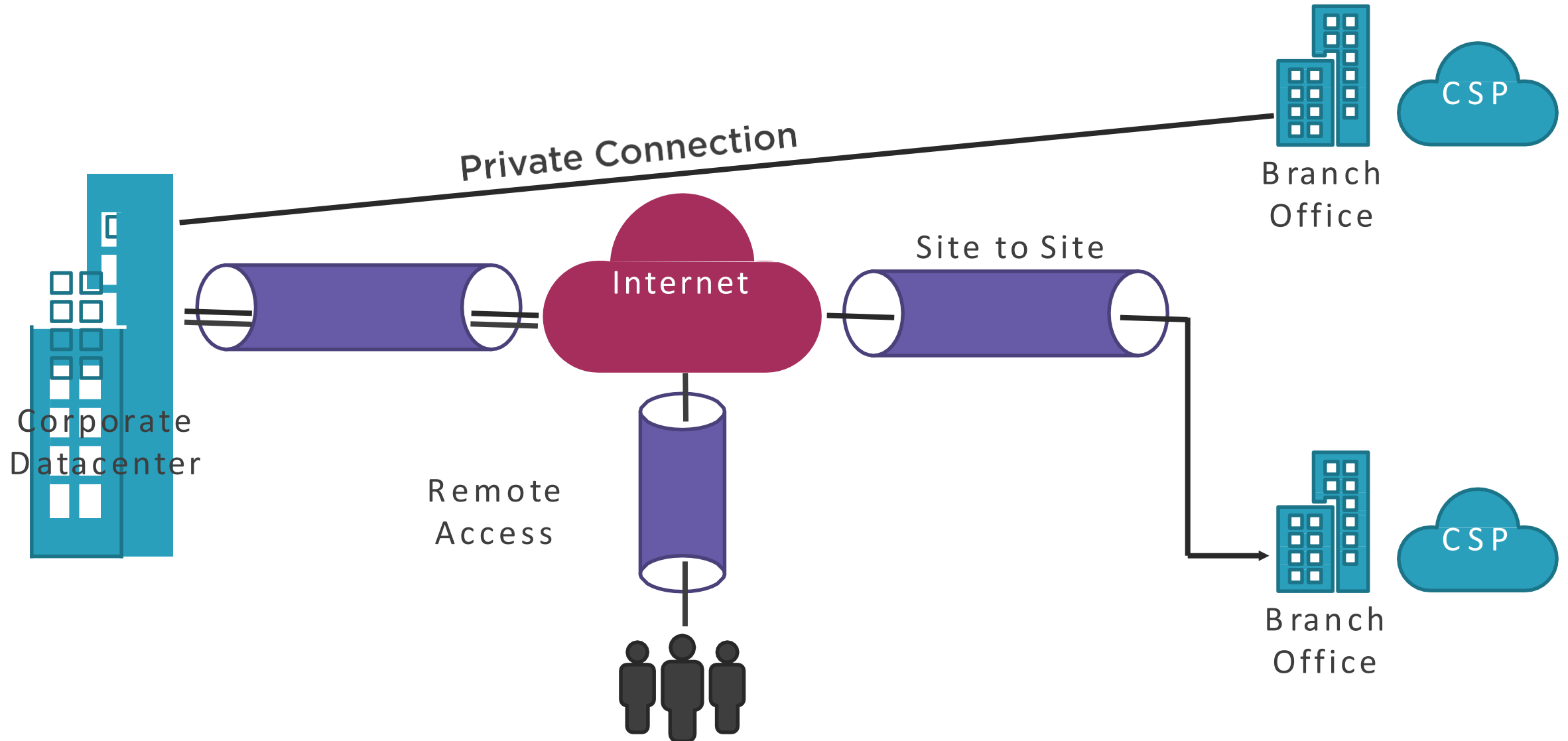
Gateways

Internet Gateway
(IGW)

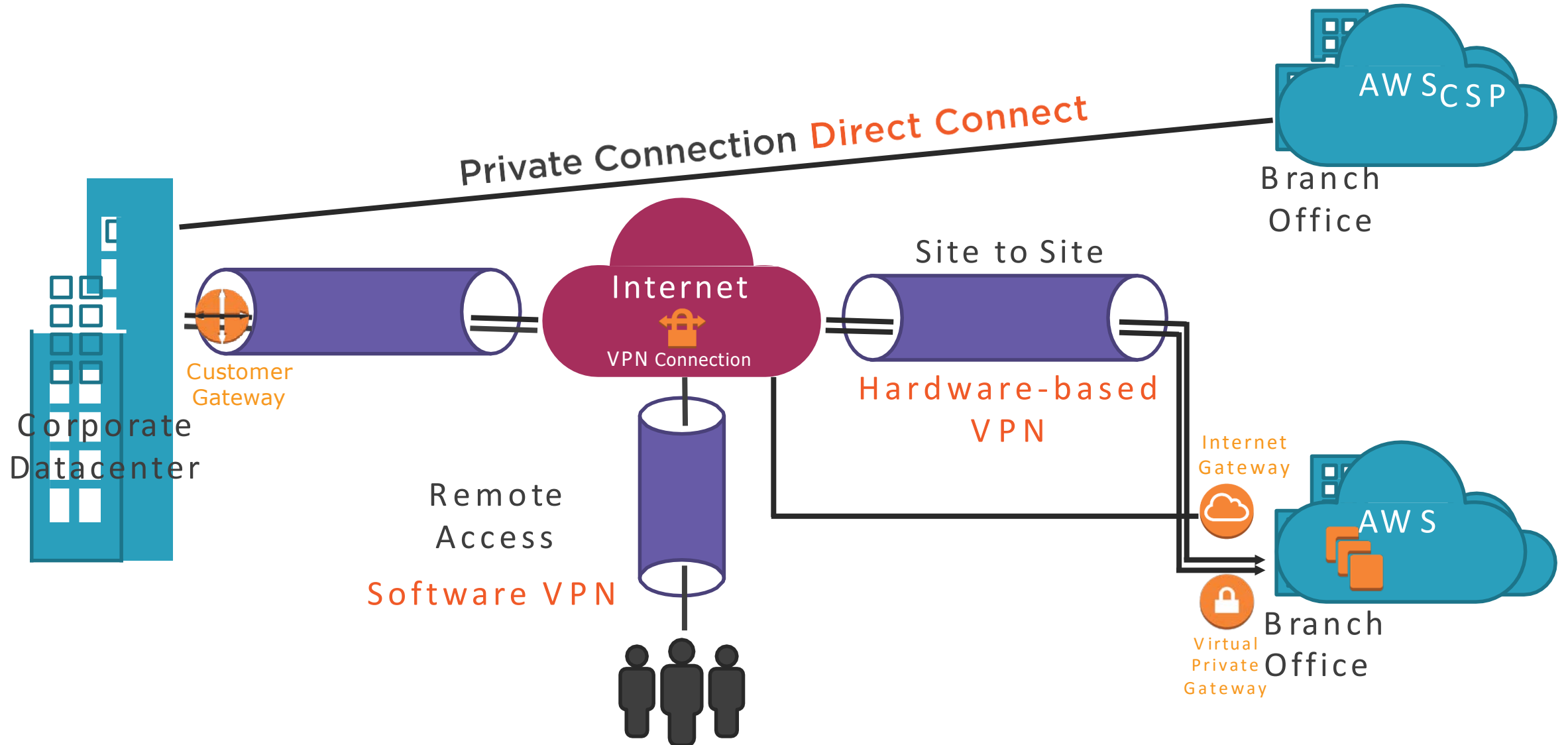
Virtual
Private
Gateway

Customer
Gateway
(CG)

VPN Types



AWS VPC Access



AWS Direct Connect

Predictable bandwidth

Predictable
performance / consistent
network experience

1Gbps or 10Gbps

Less than 1Gbps
through AWS Partner
Network (APN)

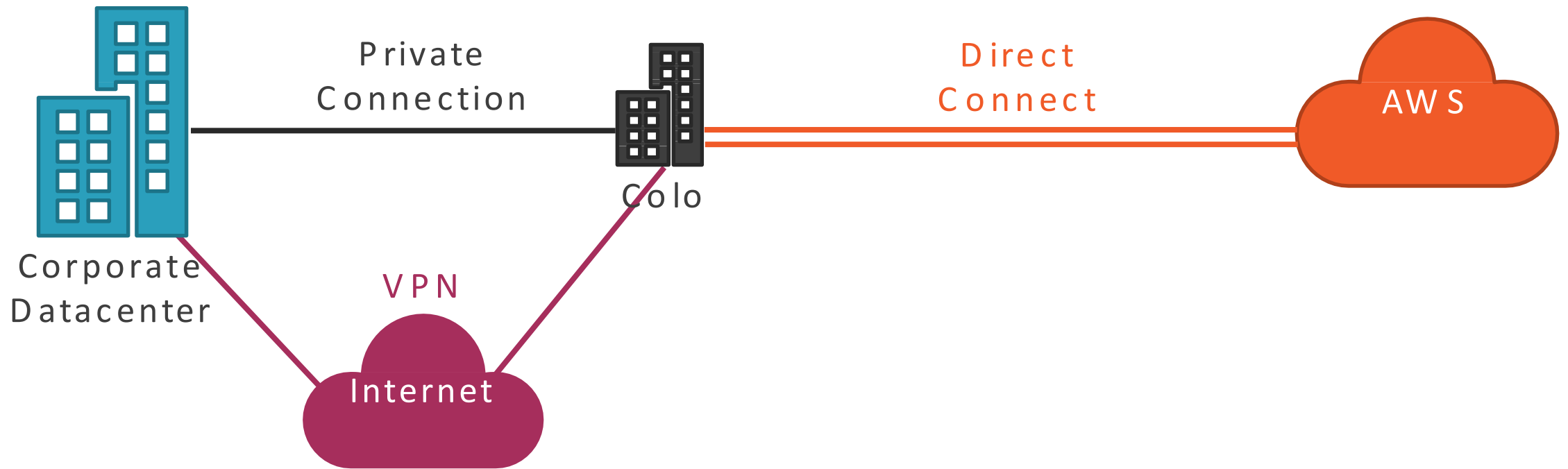
Support for VLAN
Trunking (802.1Q)

Direct Connect can be
partitioned into multiple
virtual interfaces (VIFs)

AWS Direct Connect



AWS Direct Connect

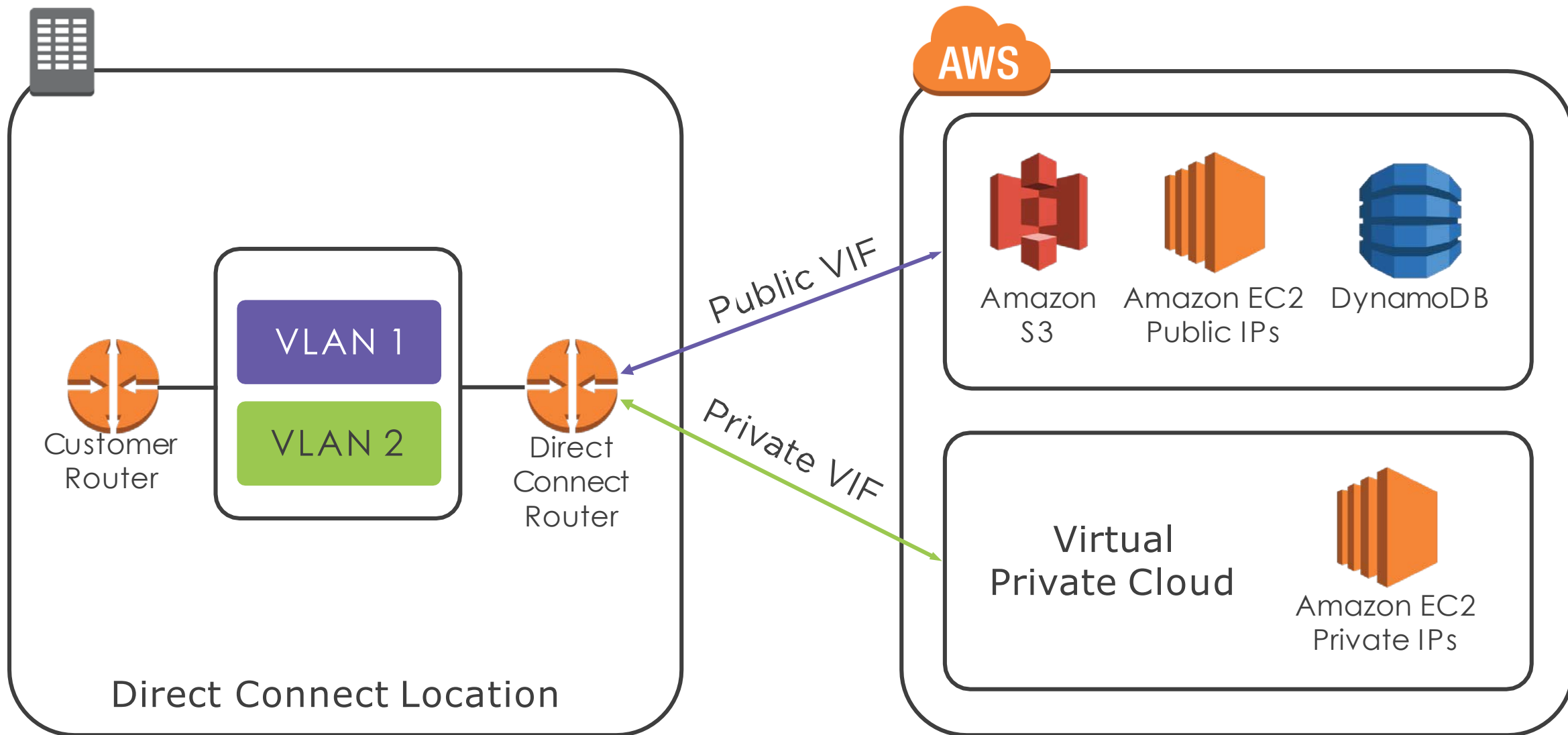


Virtual Interfaces

Direct Connect can be partitioned into multiple virtual interfaces (VIF)

Public connectivity to S3, EC2
and DynamoDB

Private connectivity to VPC



Direct Connect

Deep Dive – AWS Direct Connect and VPNs:

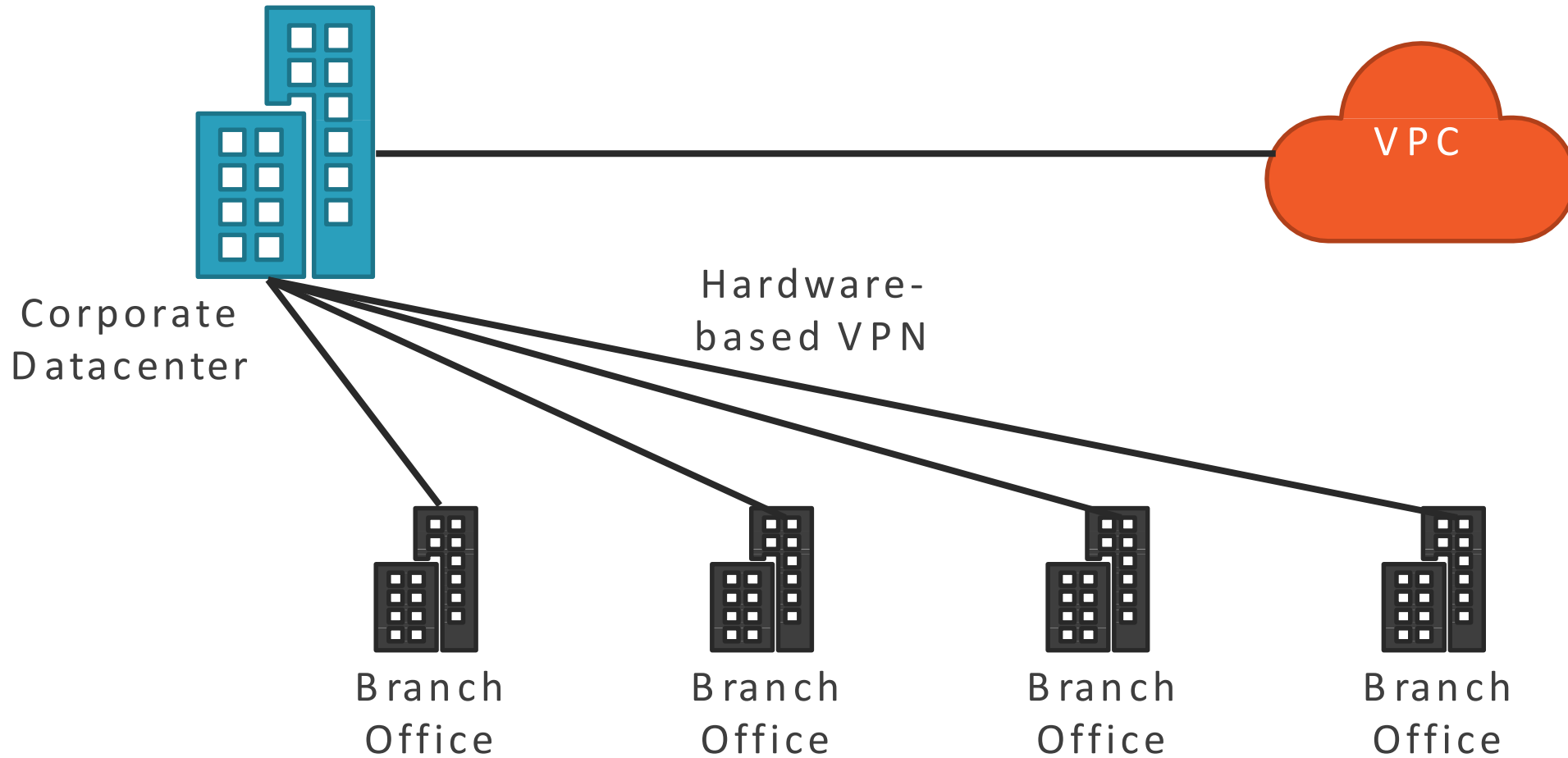
<https://youtu.be/SMvom9QjkPk>

AWS Direct Connect:

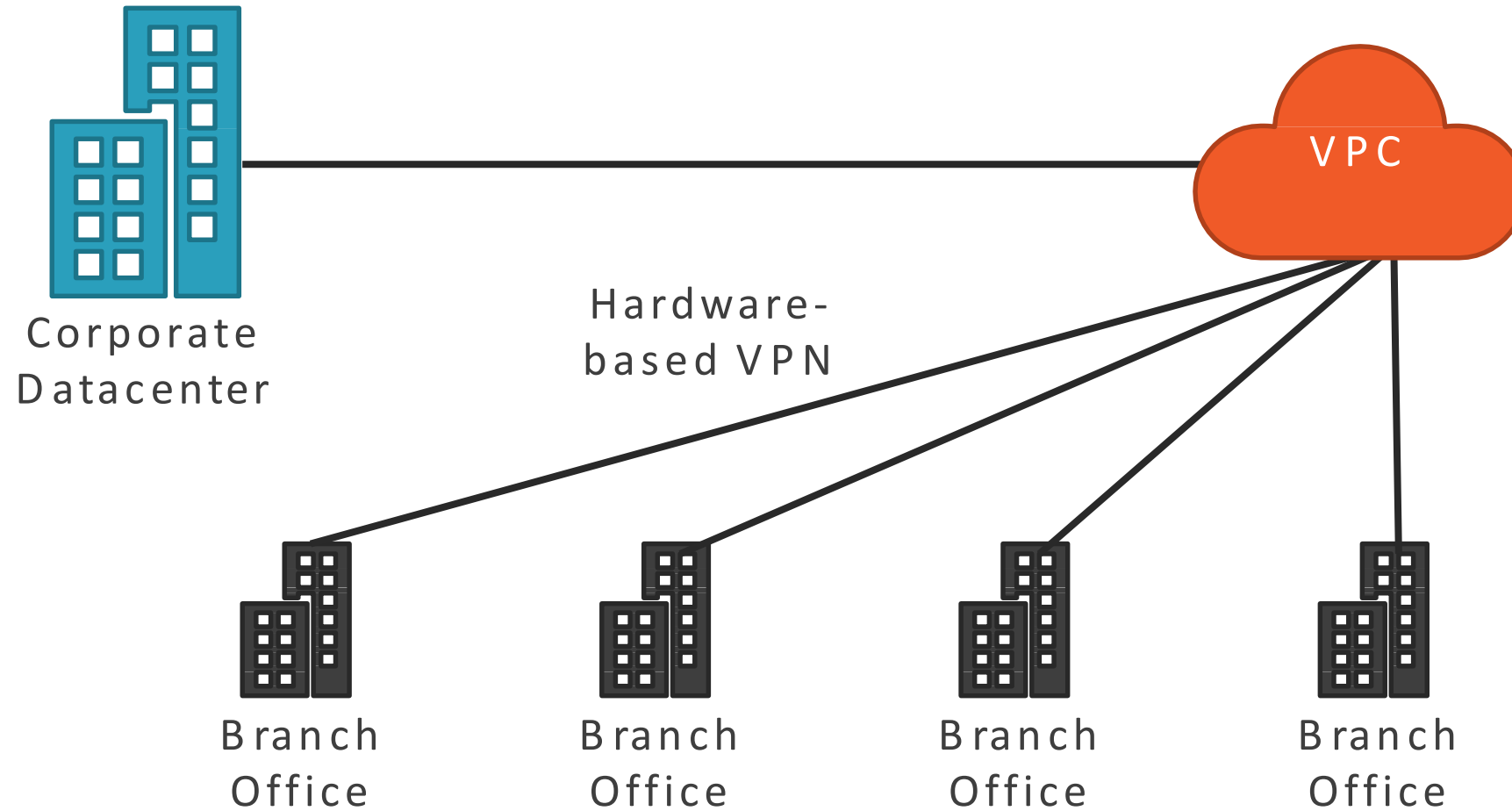
<https://aws.amazon.com/directconnect/>



AWS VPN CloudHub



AWS VPN CloudHub



Summary



VPC peering

VPN access types

Direct connect