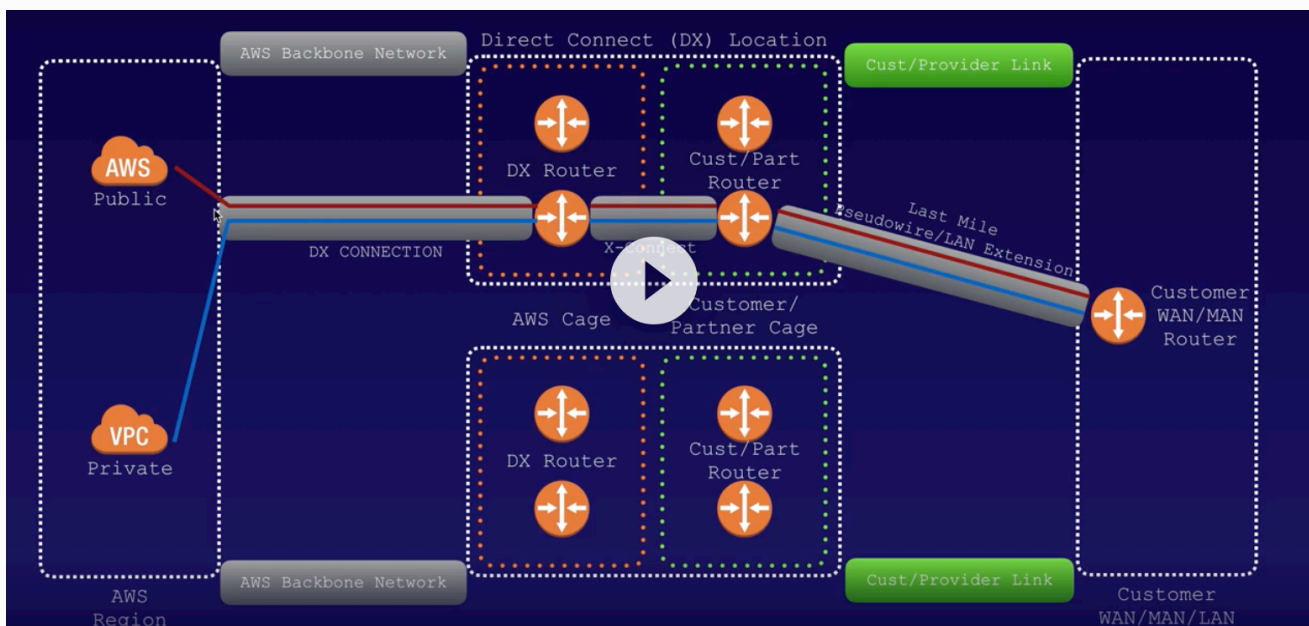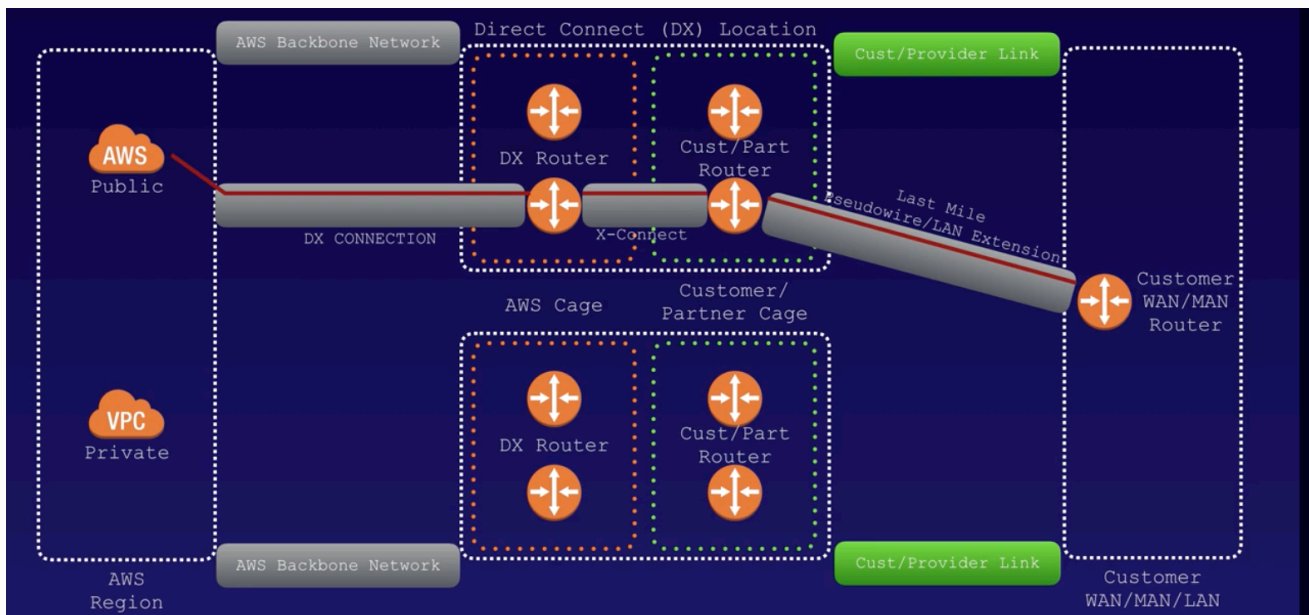Direct Connect

Direct Connect

AWS Direct Connect is a cloud service solution that makes it easy to establish a dedicated network connection from your premises to AWS. Using AWS Direct Connect, you can establish private connectivity between AWS and your datacenter, office, or colocation environment, which in many cases can reduce your network costs, increase bandwidth throughput, and provide a more consistent network experience than Internet-based connections.
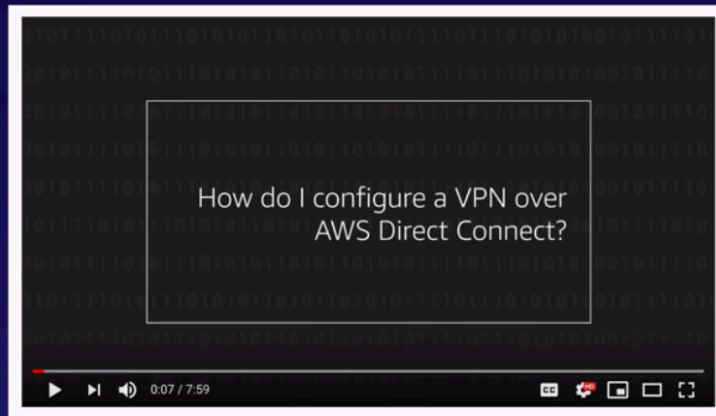
Remember the following;

- Direct Connect directly connects your data center to AWS

- Useful for high throughput workloads (ie lots of network traffic)

- Or if you need a stable and reliable secure connection.

Steps to setting up Direct Connect

- Create a virtual interface in the Direct Connect console. This is a **PUBLIC Virtual Interface**.

- Go to the VPC console and then to VPN connections. Create a Customer Gateway.

- Create a Virtual Private Gateway

- Attach the Virtual Private Gateway to the desired VPC.

- Select VPN Connections and create new VPN Connection.

- Select the Virtual Private Gateway and the Customer Gateway

- Once the VPN is available, set up the VPN on the customer gateway or firewall.

Watch this AWS Youtube video

https://www.youtube.com/watch?v=dhpTTT6V1So

How do I configure a VPN over
AWS Direct Connect?

0:07 / 7:59

https://www.youtube.com/watch?v=mj5V3_-QEW0

```
LAB-SW-1# show ip bgp neighbors 169.254.249.5 advertised-routes vrf amandeep

Peer 169.254.249.5 routes for address family IPv4 Unicast:
BGP table version is 6, local router ID is 10.200.0.200
Status: s-suppressed, x-deleted, S-stale, d-dampened, h-history, *-valid, >-best
Path type: i-internal, e-external, c-confed, l-local, a-aggregate, r-redist
Origin codes: i - IGP, e - EGP, ? - incomplete, l - multipath

   Network           Next Hop           Metric     LocPrf     Weight Path
*>l10.200.0.200/32   0.0.0.0                         100       32768 i
*>l169.254.249.4/30  0.0.0.0                         100       32768 i
LAB-SW-1#
LAB-SW-1#
LAB-SW-1# show ip bgp neighbors 169.254.249.5 received-routes vrf amandeep

Peer 169.254.249.5 routes for address family IPv4 Unicast:
BGP table version is 6, local router ID is 10.200.0.200
Status: s-suppressed, x-deleted, S-stale, d-dampened, h-history, *-valid, >-best
Path type: i-internal, e-external, c-confed, l-local, a-aggregate, r-redist
Origin codes: i - IGP, e - EGP, ? - incomplete, l - multipath

   Network           Next Hop           Metric     LocPrf     Weight Path
*>e10.100.0.0/16     169.254.249.5                              0 64512 i
LAB-SW-1#
LAB-SW-1#
```

```
Peer 169.254.249.5 routes for address family IPv4 Unicast:
BGP table version is 6, local router ID is 10.200.0.200
Status: s-suppressed, x-deleted, S-stale, d-dampened, h-history, *-valid, >-best
Path type: i-internal, e-external, c-confed, l-local, a-aggregate, r-redist
Origin codes: i - IGP, e - EGP, ? - incomplete, | - multipath

   Network          Next Hop         Metric    LocPrf      Weight Path
*>l10.200.0.200/32  0.0.0.0                       100       32768 i
*>l169.254.249.4/30 0.0.0.0                       100       32768 i
LAB-SW-1#
LAB-SW-1#
LAB-SW-1# show ip bgp neighbors 169.254.249.5 received-routes vrf amandeep

Peer 169.254.249.5 routes for address family IPv4 Unicast:
BGP table version is 6, local router ID is 10.200.0.200
Status: s-suppressed, x-deleted, S-stale, d-dampened, h-history, *-valid, >-best
Path type: i-internal, e-external, c-confed, l-local, a-aggregate, r-redist
Origin codes: i - IGP, e - EGP, ? - incomplete, | - multipath

   Network          Next Hop         Metric    LocPrf      Weight Path
*>e10.100.0.0/16    169.254.249.5                              0 64512 i
LAB-SW-1#
LAB-SW-1#
LAB-SW-1# ping 10.100.1.135 vrf amandeep source 10.200.0.200
PING 10.100.1.135 (10.100.1.135) from 10.200.0.200: 56 data bytes
Request 0 timed out
Request 1 timed out
Request 2 timed out
Request 3 timed out
Request 4 timed out
^C
--- 10.100.1.135 ping statistics ---
5 packets transmitted, 0 packets received, 100.00% packet loss
```