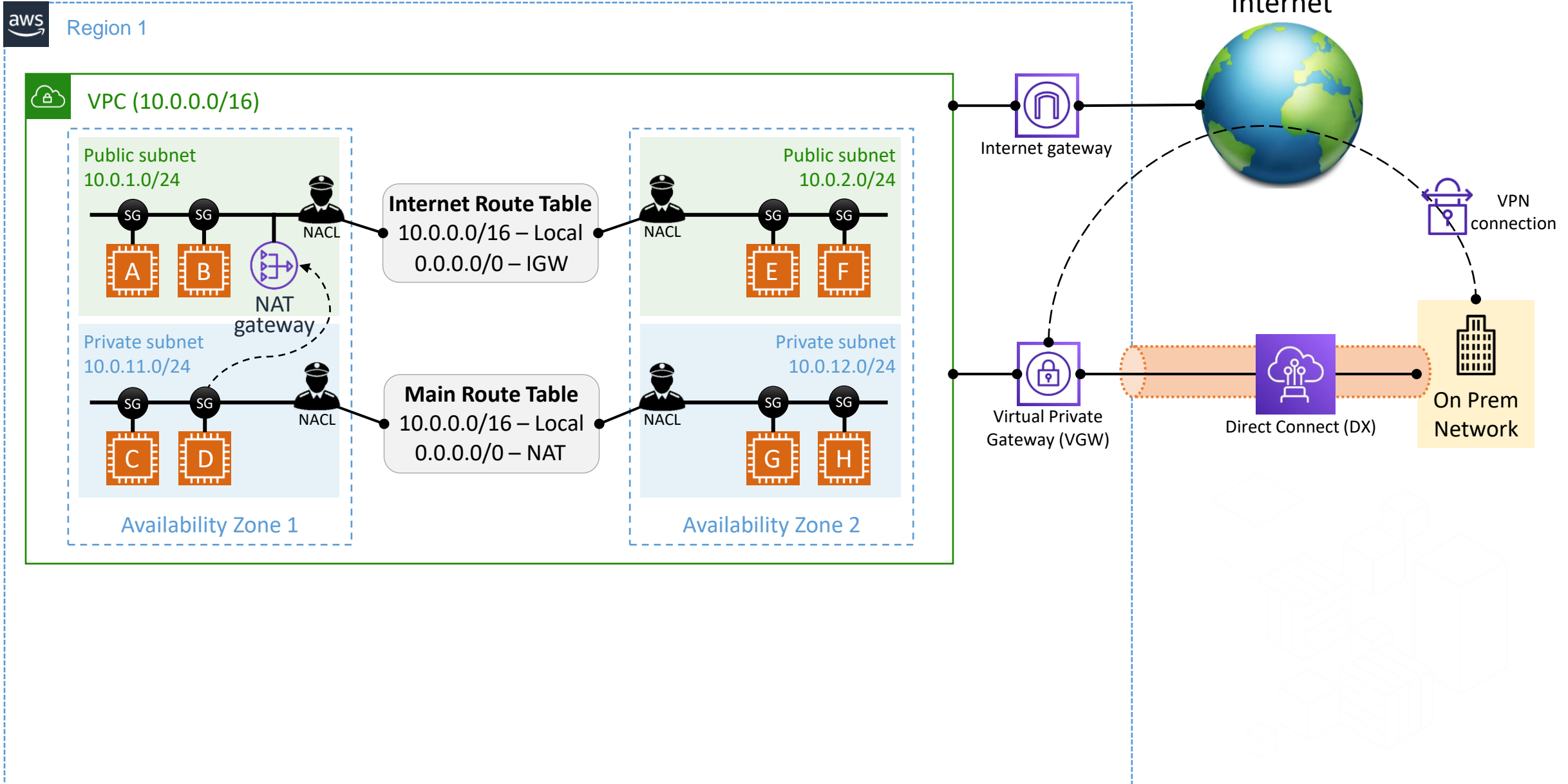




**Cloud and beyond**  
VPN and Direct Connect

# Amazon VPC





# Analogy - Site-to-Site VPN vs. Direct Connect

Commercial Flight



Site-to-Site VPN

Private Jet



Direct Connect

# Site-to-Site VPN vs. Direct Connect

|                          | Site-to-Site VPN   | Direct Connect   |
|--------------------------|--|--|
| <b>Use case</b>          | Connecting remote networks to AWS VPC which doesn't require heavy data transfer or doesn't require a consistent connection | Connecting remote networks to AWS VPC which require heavy data transfer or require a consistent connection |
| <b>Choose when...</b>    | Cost is important  | Predictable performance is important   |
| <b>Supported speed</b>   | 1.25 Gbps per tunnel   | 1 / 10 / 100 Gbps<br>(sub 1 Gbps connections may be available from some service providers)                 |
| <b>How it works?</b>     | Establishes a tunnel over existing internet connection   | Establishes a connectivity over a dedicated network. Doesn't use Internet                                  |
| <b>High Availability</b> | Highly available on AWS side<br>(VGW is deployed across 2 AZs)   | Single connection.<br>No high availability by default  |
| <b>Encryption</b>        | Uses IPSec   | Not encrypted by default   |
| <b>Time to establish</b> | Can be setup in few minutes in a self-service fashion  | Requires a Service Provider, may take few hours/days to get established                                    |
| <b>Cost dimension</b>    | Per connection hour and data transfer out  | Variable port fees and data transfer out   |