

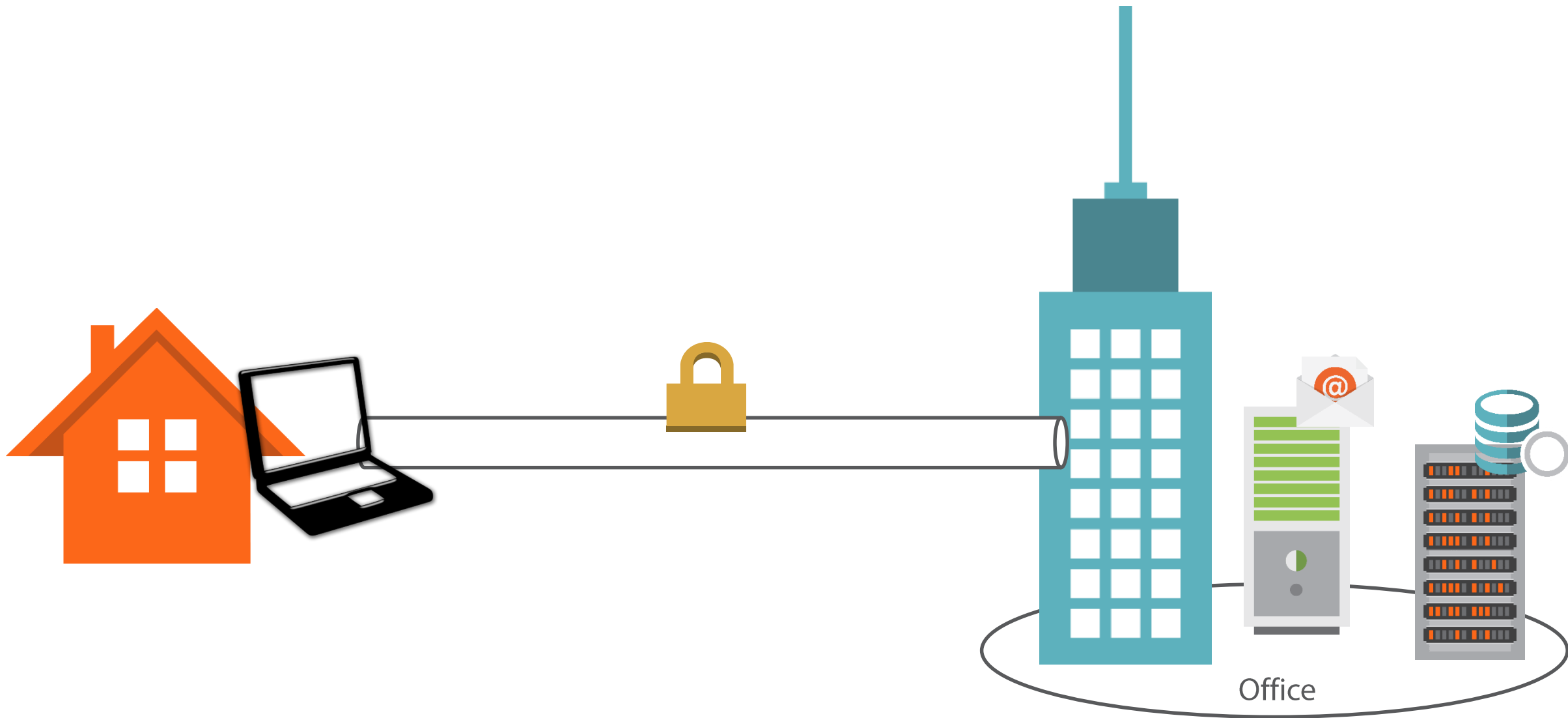
Connecting Remote Locations with VPNs



Nigel Poulton

@nigelpoulton | www.nigelpoulton.com

VPN: Virtual Private Network

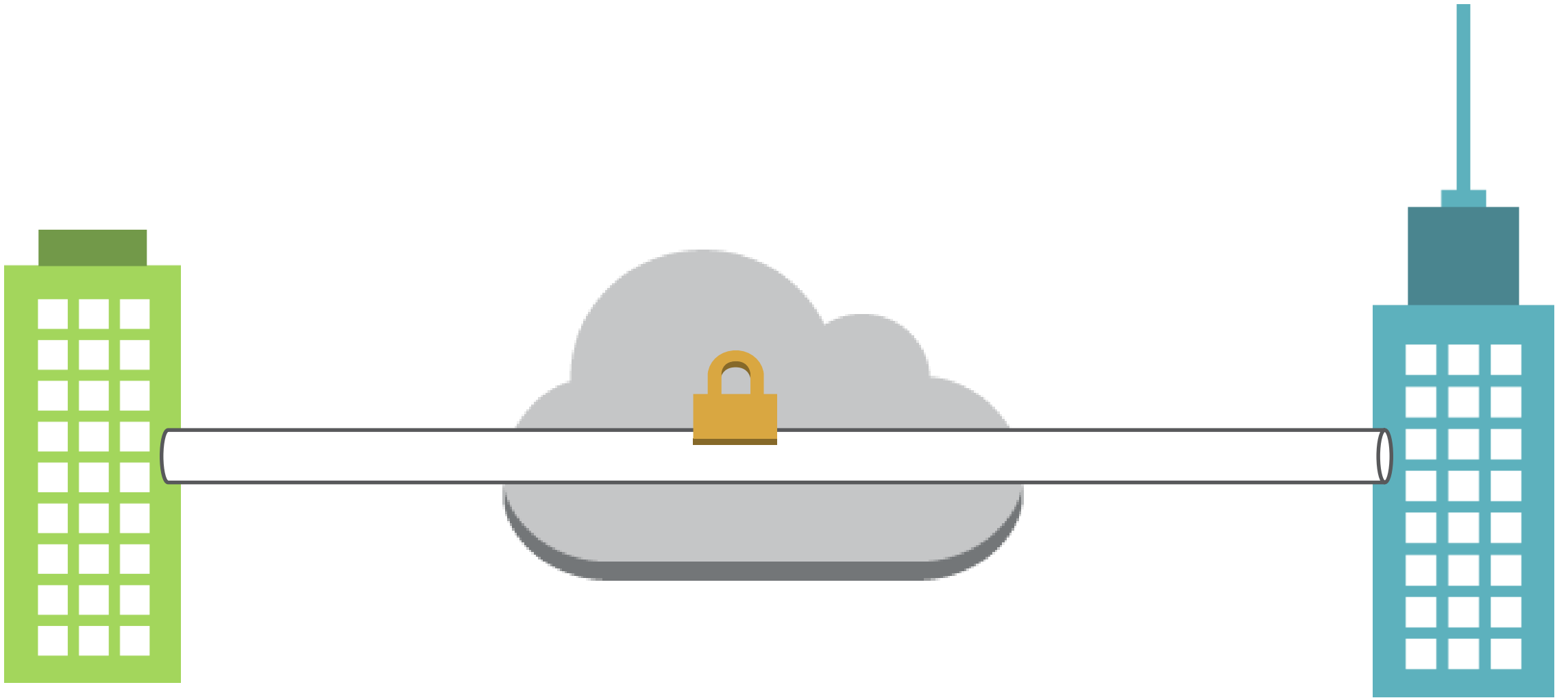


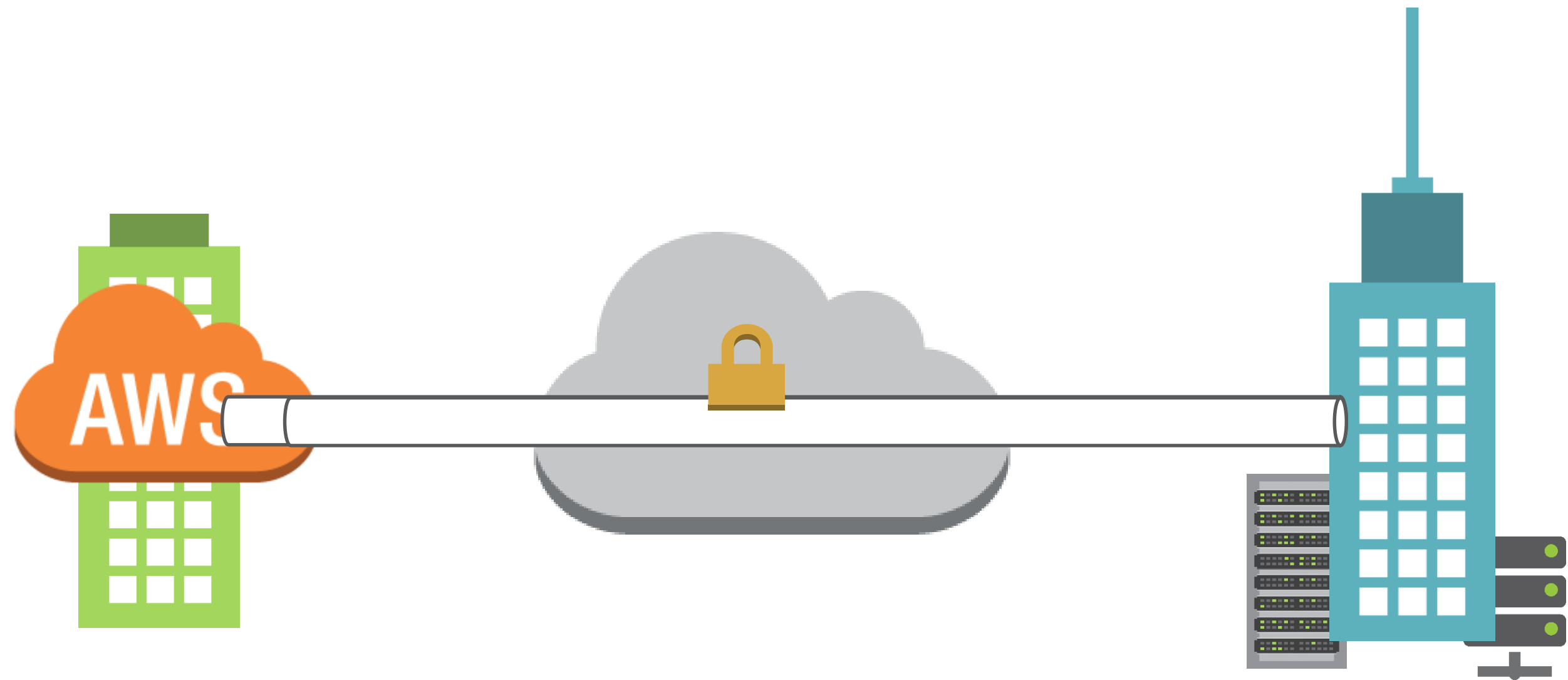


Virtual Private Network (encrypted)



Office





Module Overview

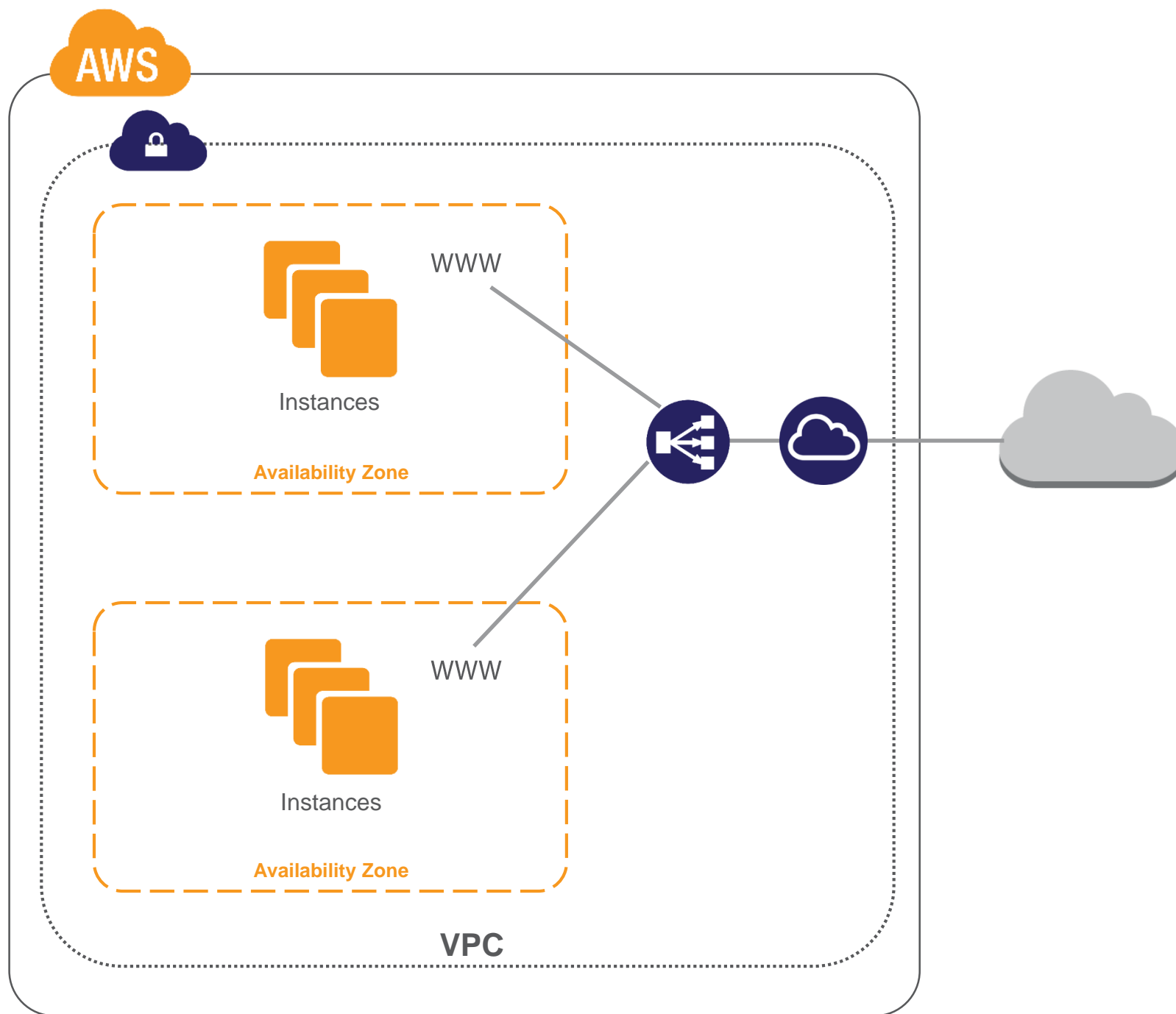


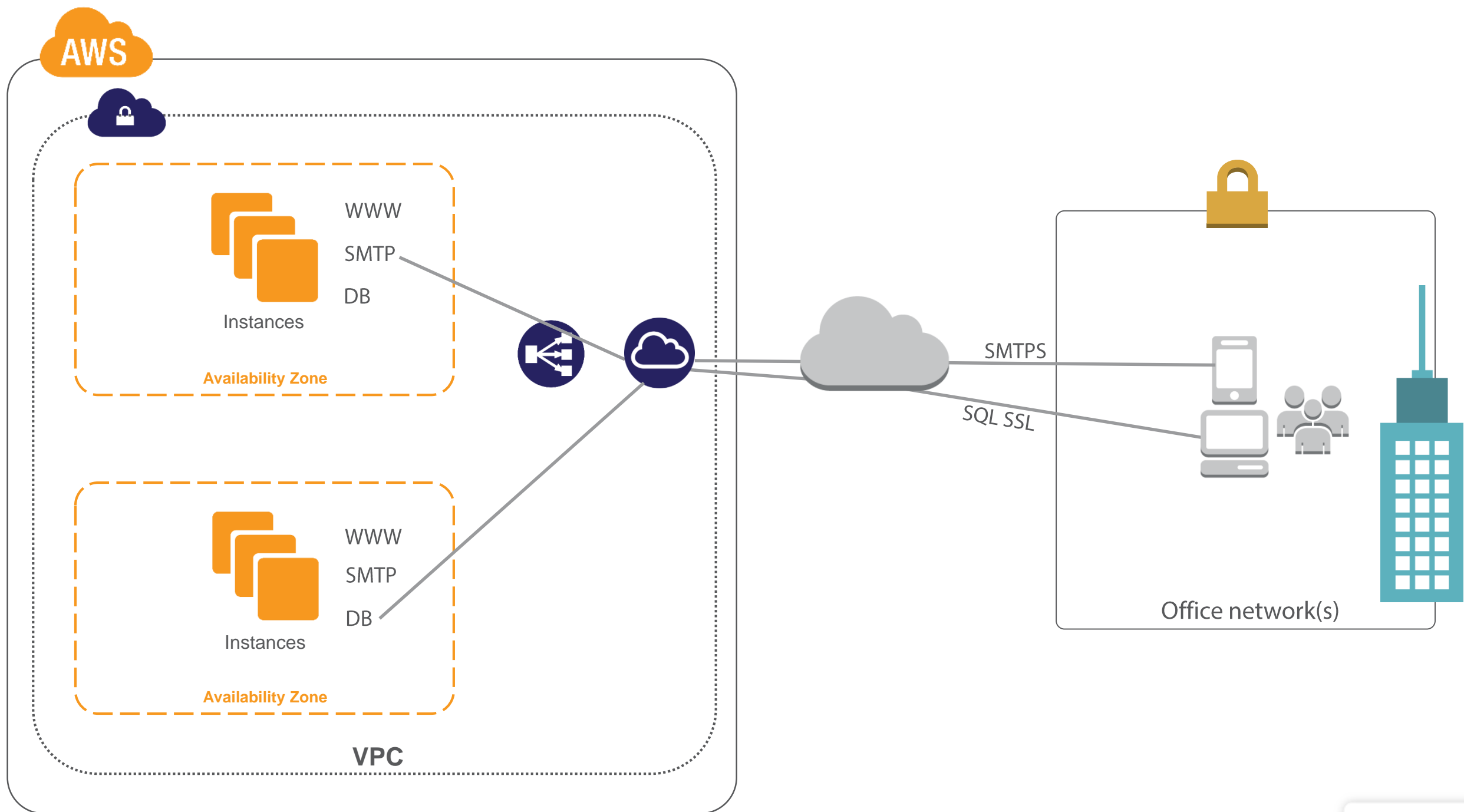
A bit more high level VPN stuff

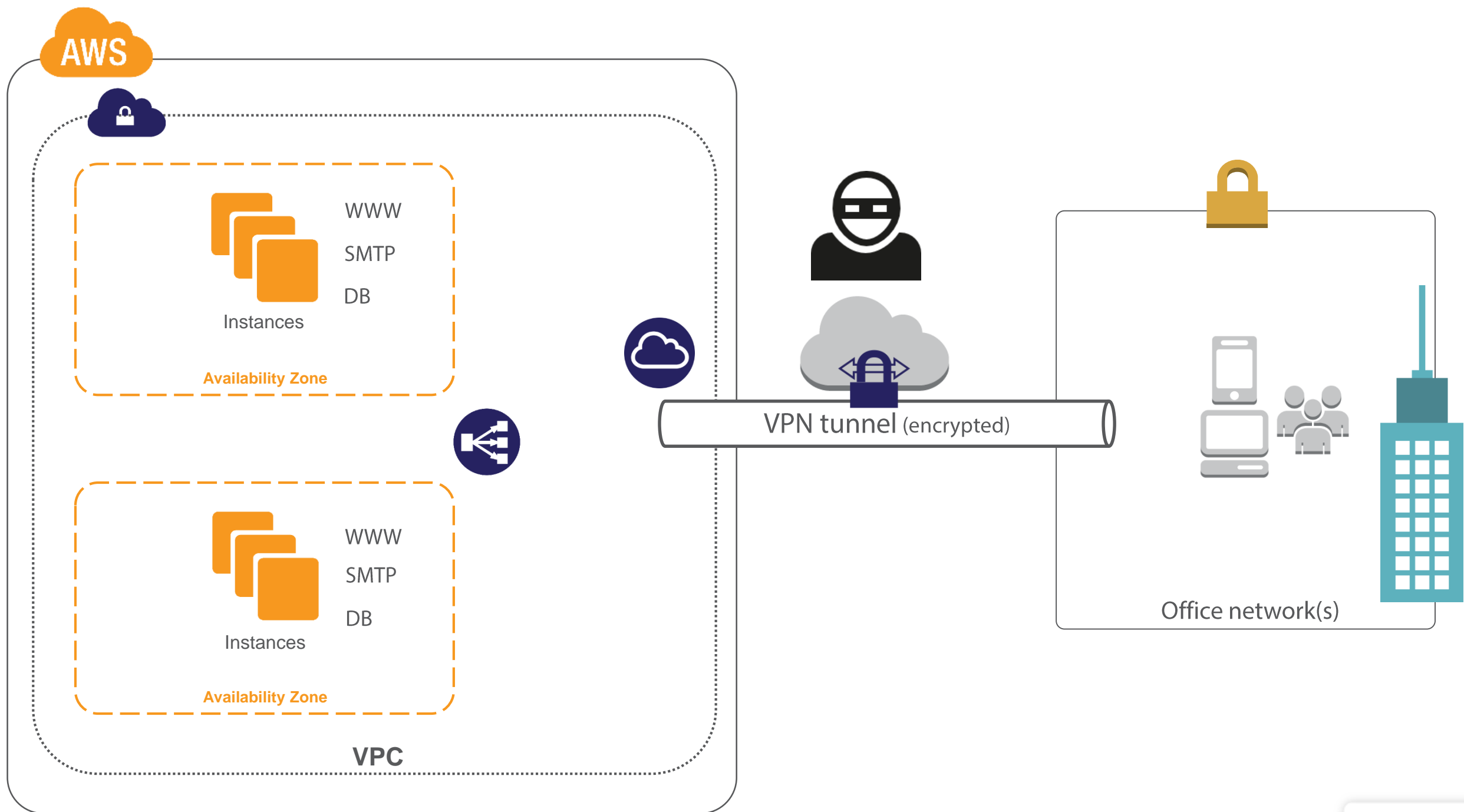
Major pieces of an AWS VPN

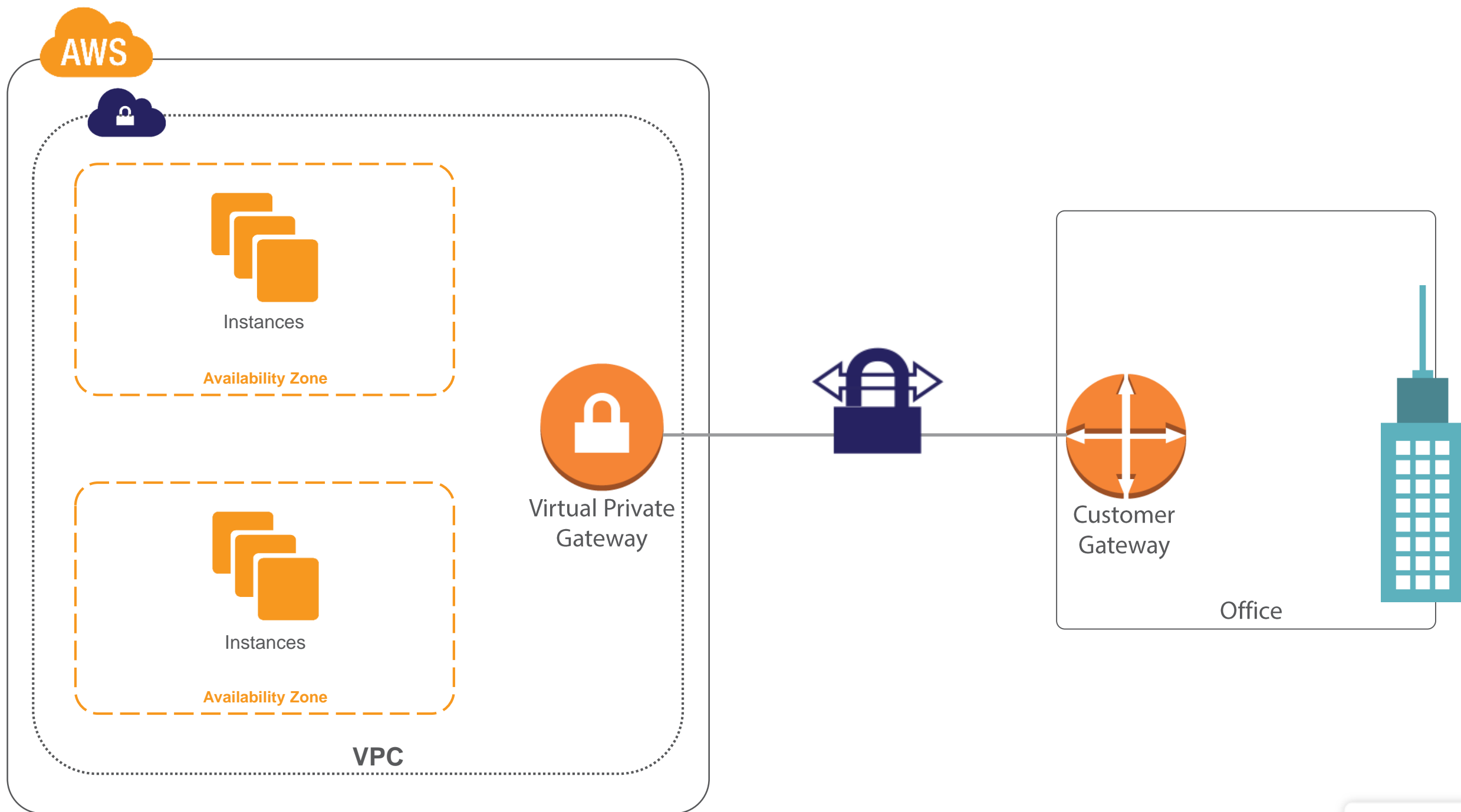
Configure an AWS VPN

Direct Connect









AWS

Route Table

Destination	Target
10.0.0.0/16	local
10.1.0.0/16	vgw-id
0.0.0.0/0	igw-1e72d67b



Instances

Availability Zone



Instances

Availability Zone

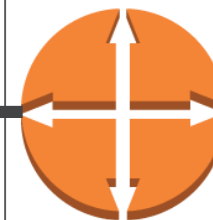
VPC **10.0.0.0/16**



Virtual Private
Gateway



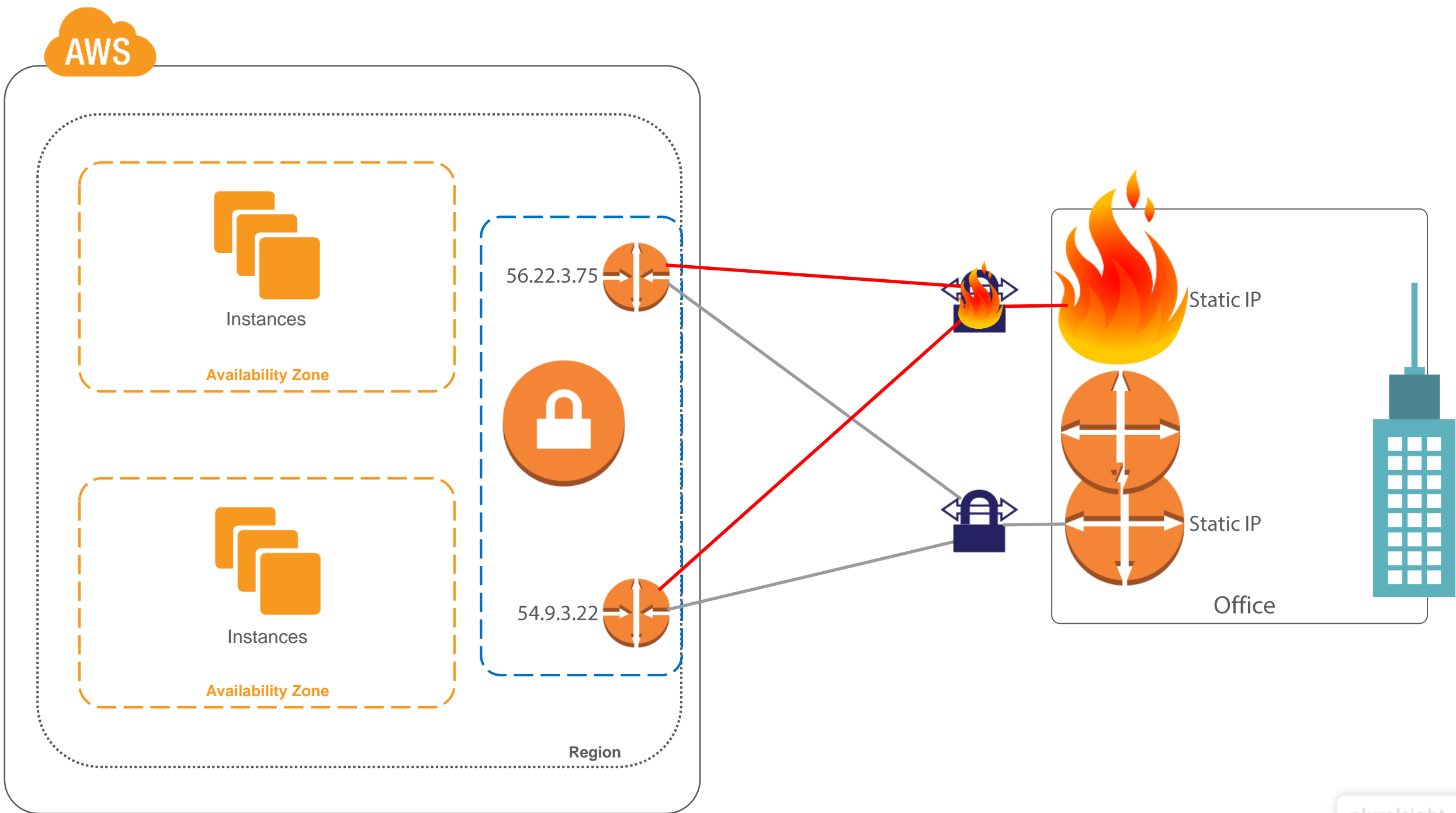
Private IPs



Customer
Gateway

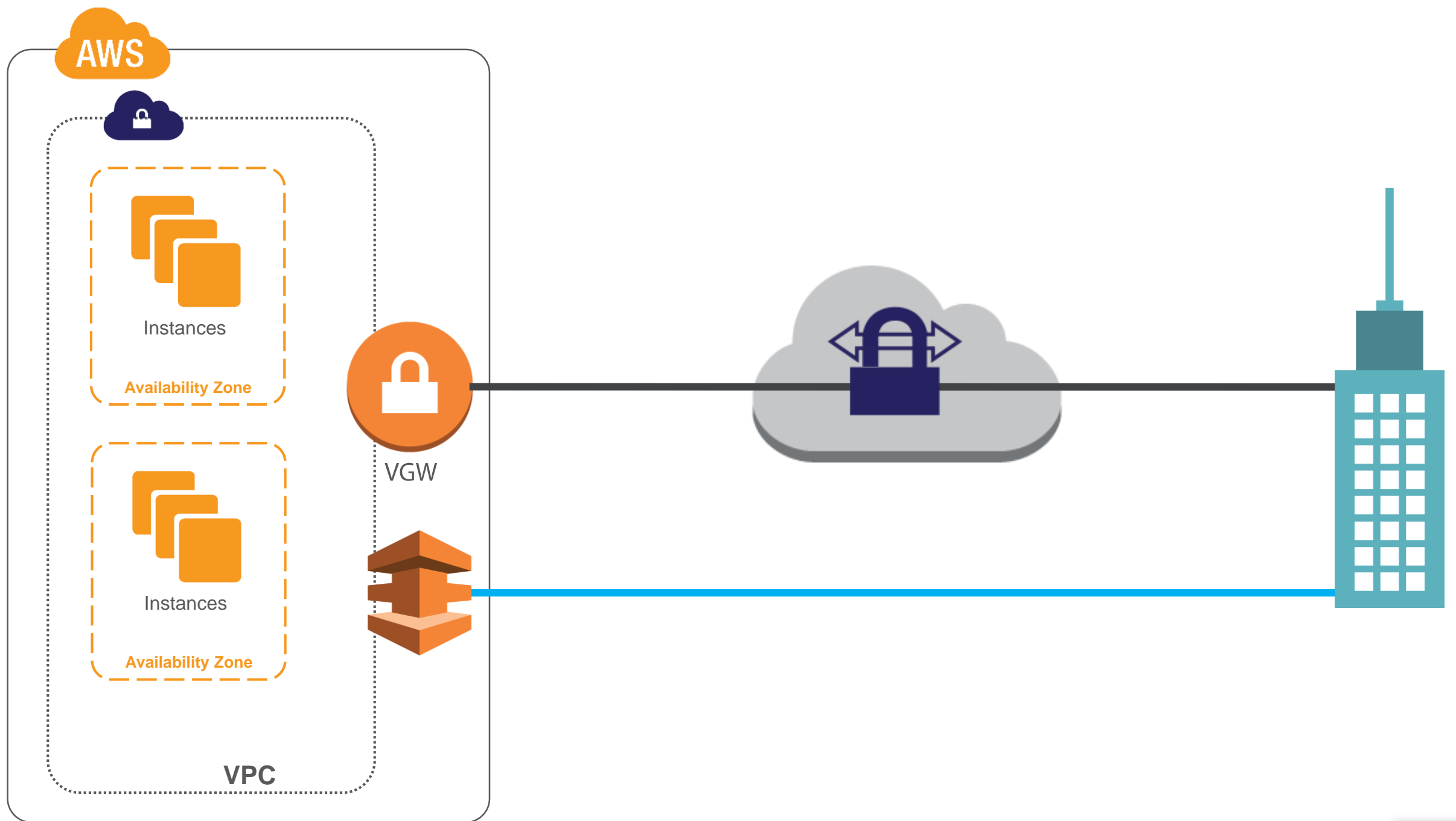
Office **10.1.0.0/16**

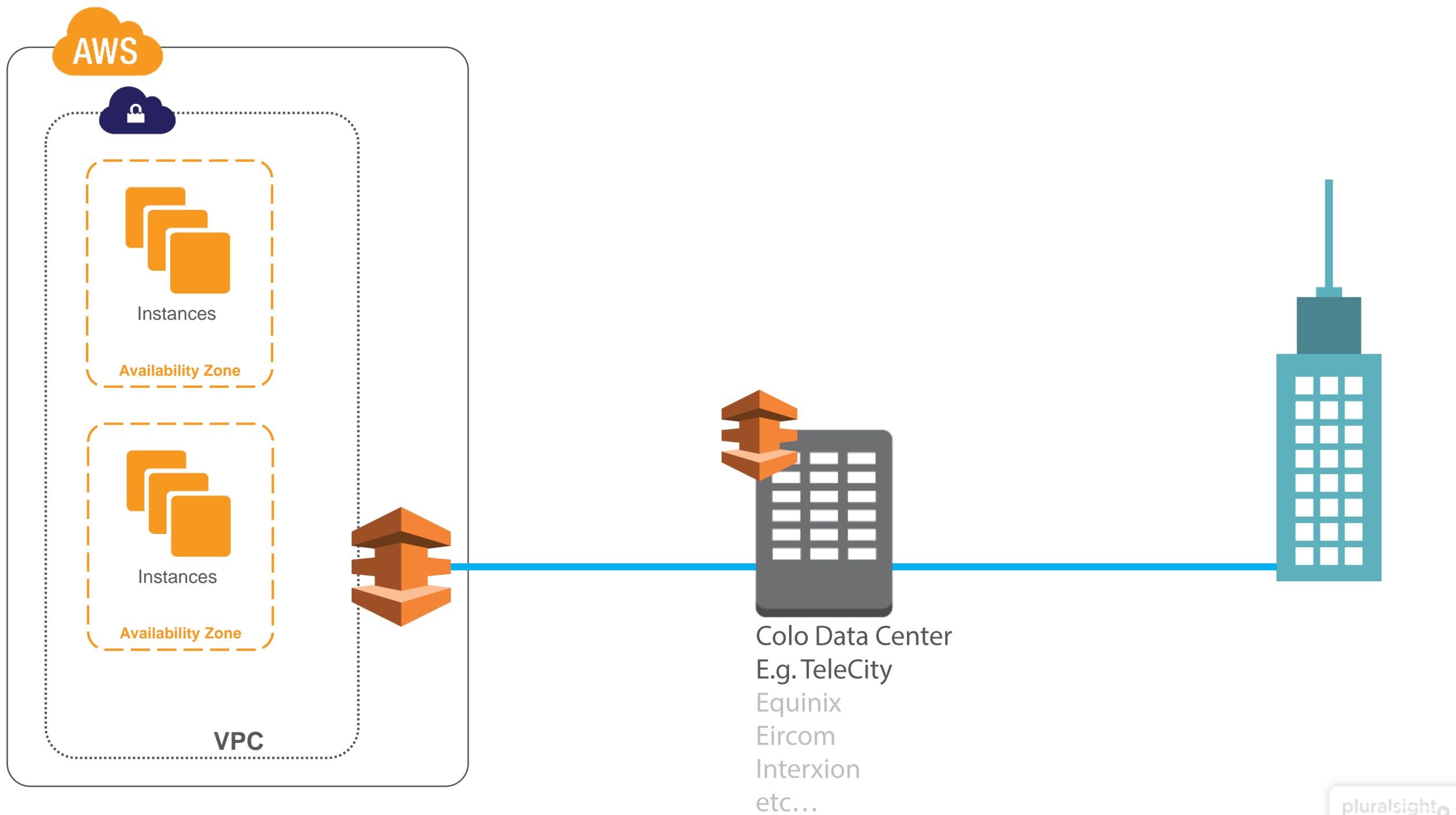


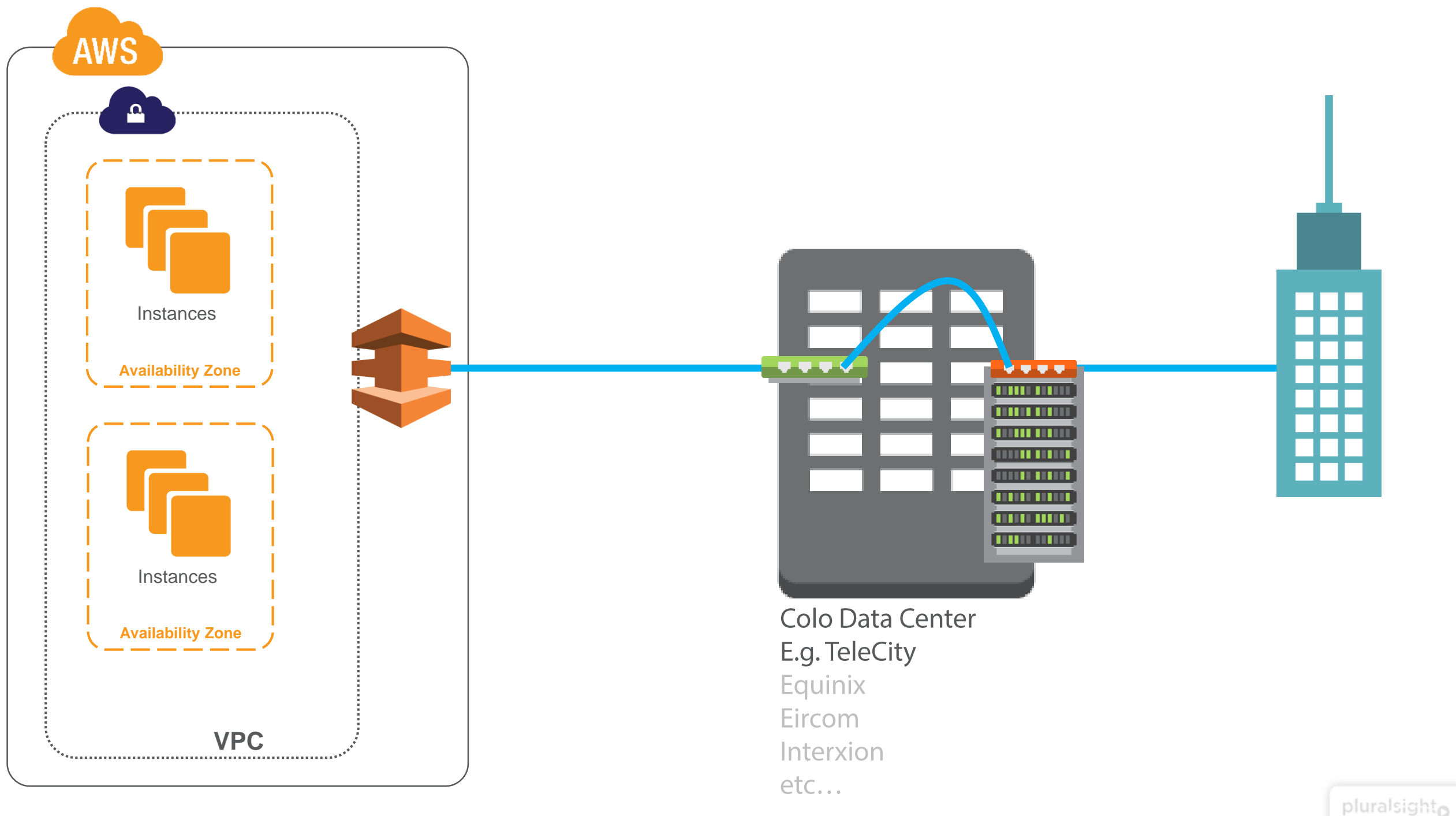


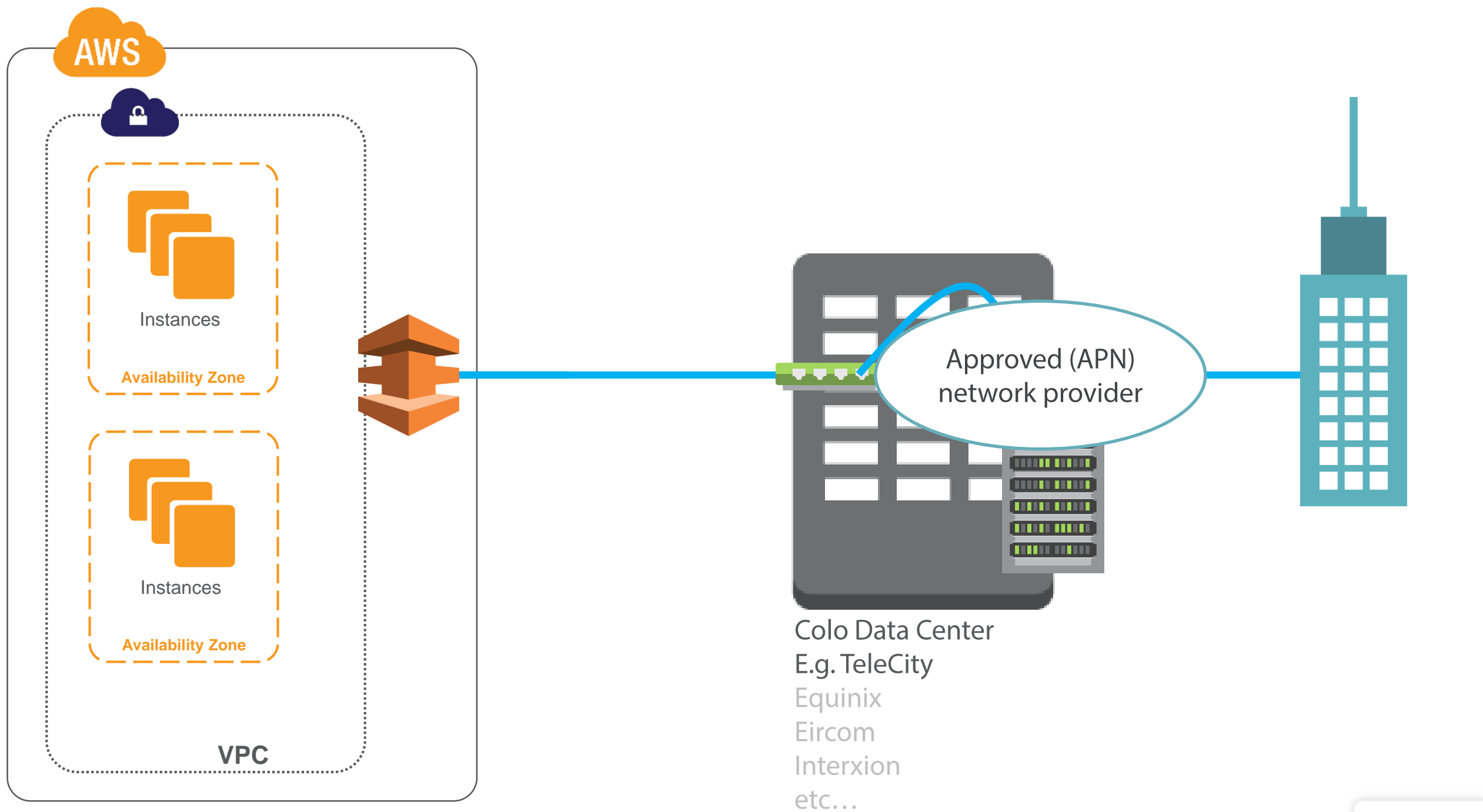
Direct Connect

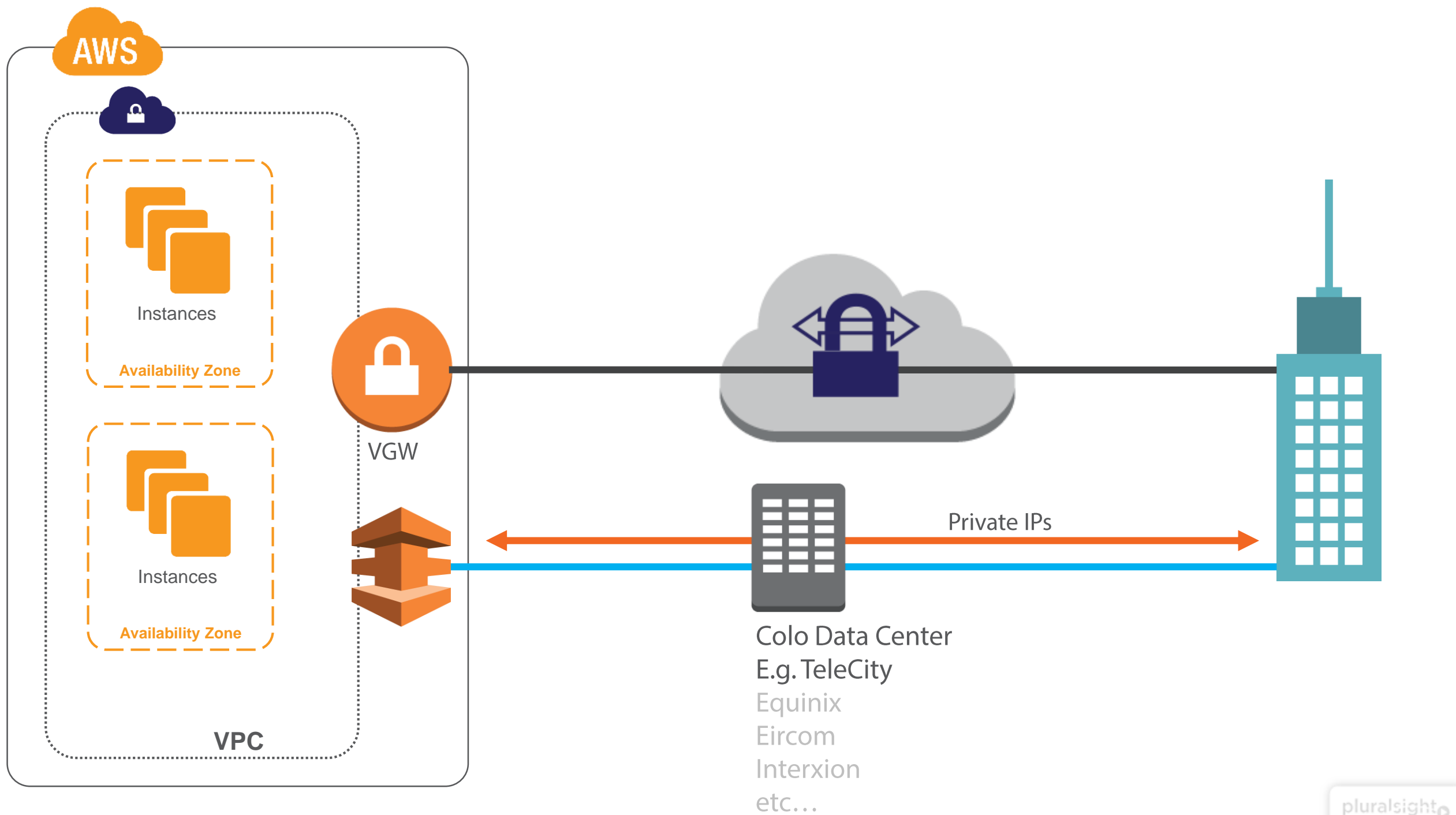


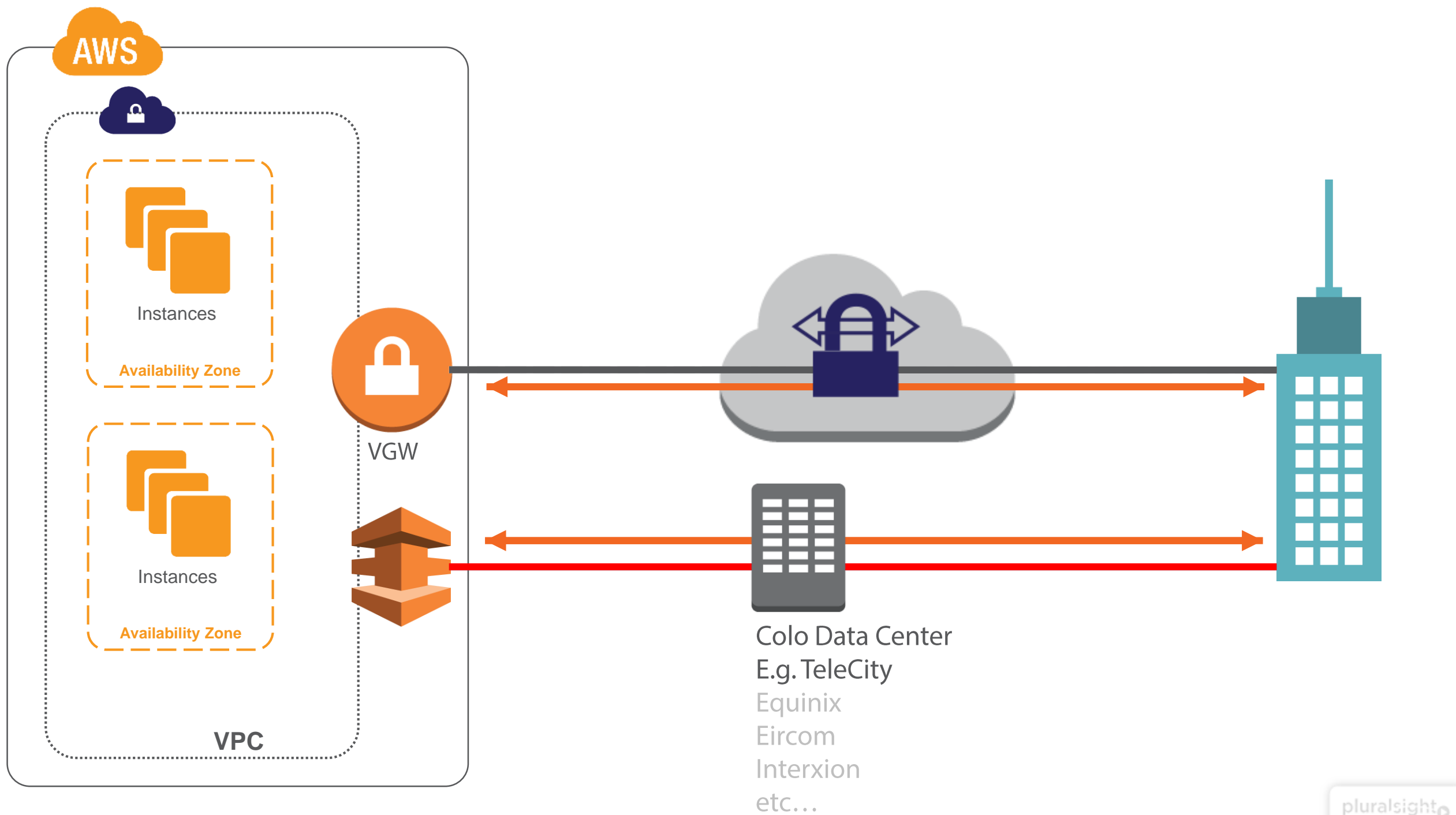












Summary

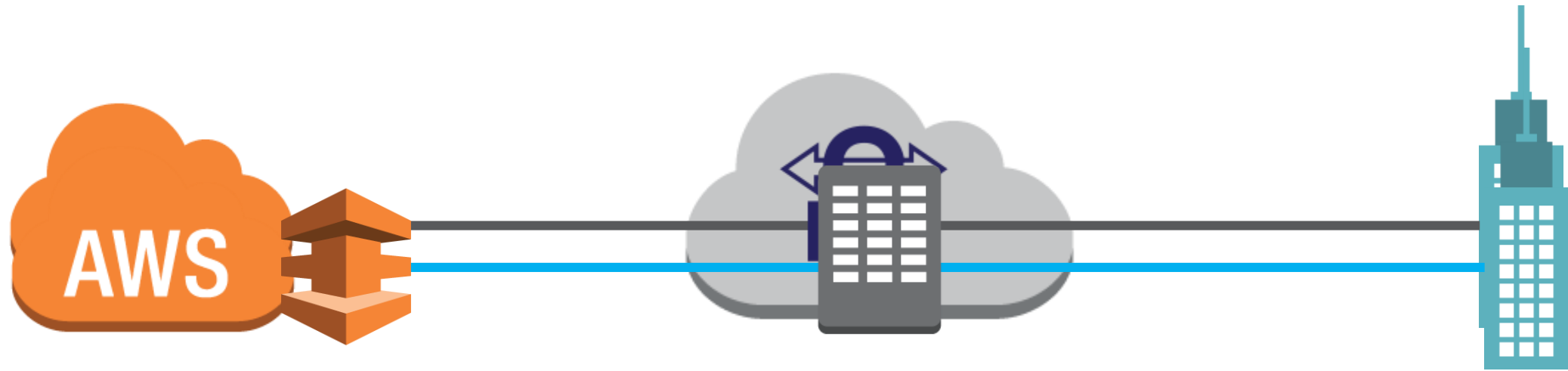


Pros

- IPsec (secure)
- Reliable (H/A etc)
- Allow private IPs

Cons

- High latency
- Unreliable throughput



Pros

Dedicated fiber

- Better network performance
- Higher throughput

Cons

Not much here 😊

Coming up next...

Q&A
