



Network Segmentation

ACE Team

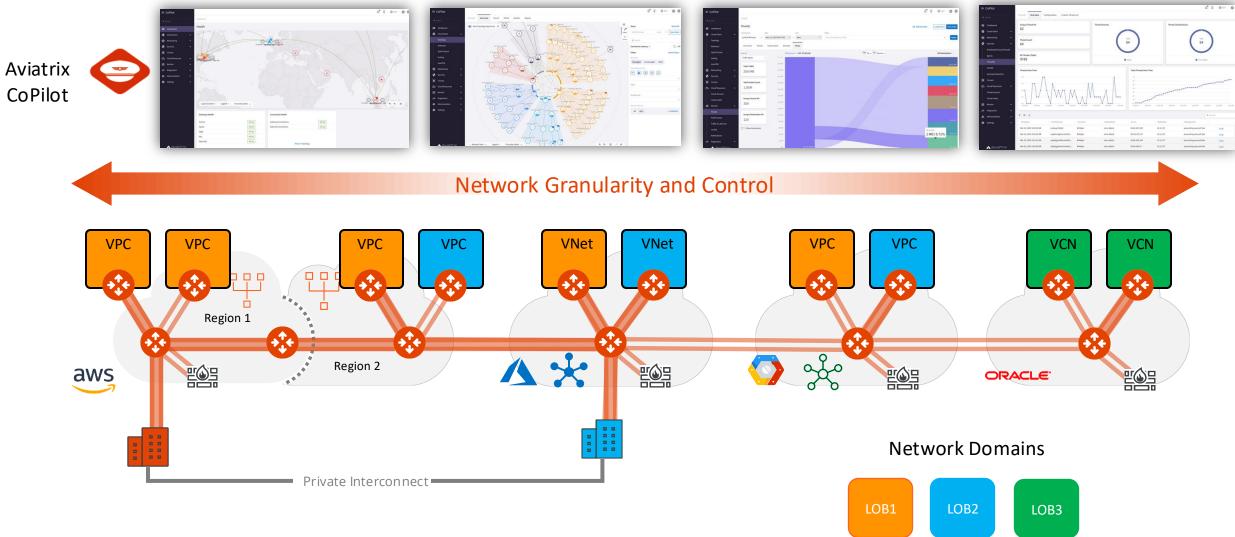
Segmentation



- Main Purpose: Enables ZTNA across multi-region and multicloud, including on-premises environment
- Group VNets/VPCs/VCNs/Apps with similar security policies
- Define your own domains
- Use Cases
 - Compliance
 - Governance
 - Audits
- The Network Segmentation is also called Macro-Segmentation
 - A Network Domain can encompass one or multiple VPCs as a unique logical container (i.e. Routing Domain)

Multicloud Network Segmentation





Multicloud Network Segmentation



Policy Based Network Segmentation

- Global
- Consistent / Repeatable
- Across accounts, subscriptions & projects

Cloud and Connection Agnostic

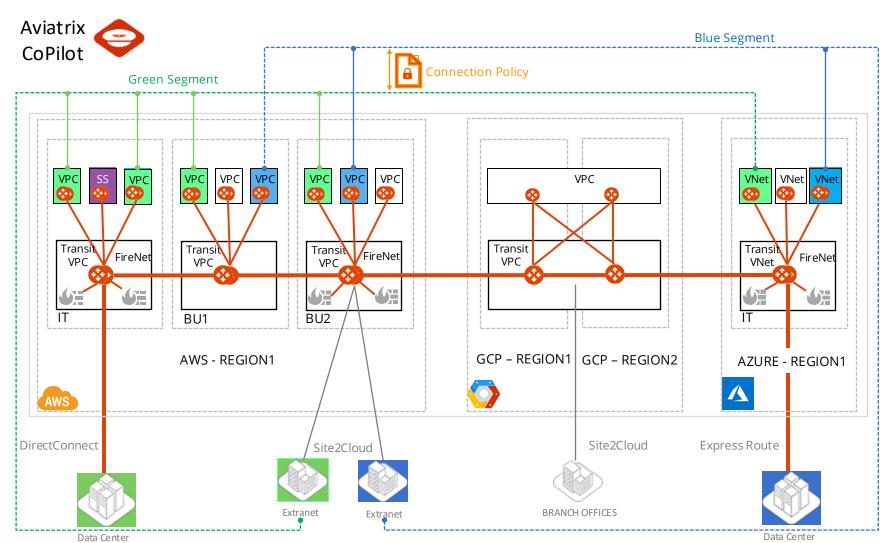
- Single cloud
- Intra-region or inter-region
- Multiple clouds

Edge/Access Segmentation

- On-Prem DCs
- Branches
- Extranets
- Cloud Peering

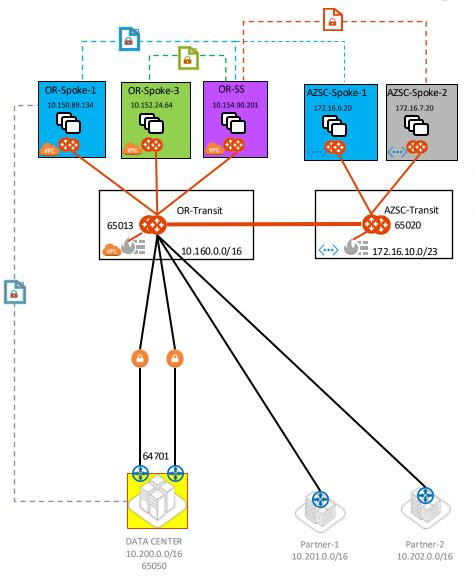
On-Demand Compliance/Governance

- Security Posture within minutes
- Aviatrix control plane realizes the intent
- Zero-Trust
- Flexible
- Automated



Multicloud Network Segmentation



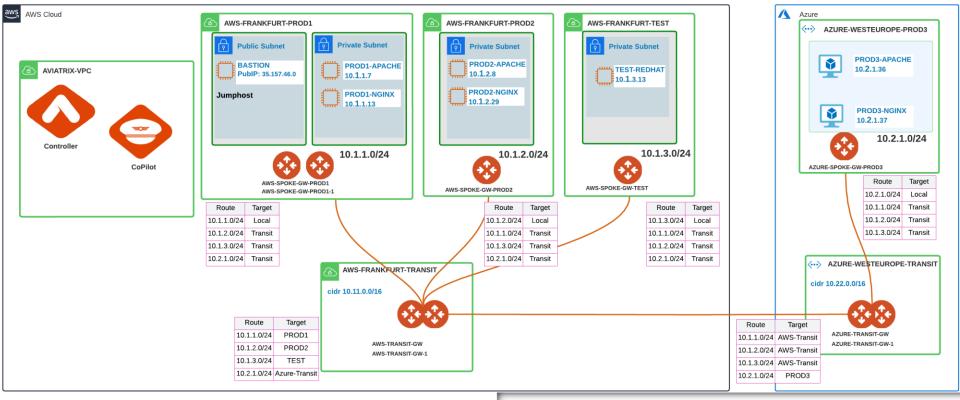


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DESTINATION	VIA	DEV	NEXTHOP IP	NEXTHOP GATEWAY	
default	172.16.6.65	eth0			
10.154.0.0/16		tun-AC100A44-0	172.16.10.68	AZSC-Transit-AGW	Purple
10.150.0.0/16		tun-AC100A44-0	172.16.10.68	AZSC-Transit-AGW	Remote-Blue
10.200.0.0/16		tun-AC100A44-0	172.16.10.68	AZSC-Transit-AGW	Yellow
172.16.6.0/24	172.16.6.65	eth0			Local-Blue
172.16.6.64/26		eth0			
172.16.6.132		tun-3499E255-0	52.153.226.85	AZSC-Spoke1-AGW-hagw	

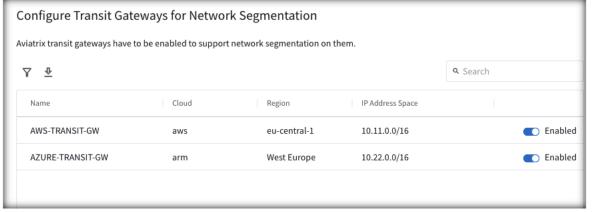
1. Enable Transit Gateways for Network Segmentation





Enable the Network Segmentation:

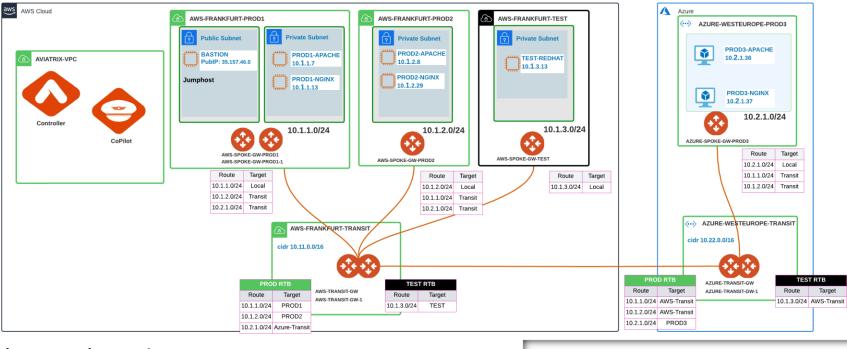
• Choose the Transit Gateway(s) that will route traffic for its members.





2. Create and Associate a Network Domain





Transit Gateway

- Multiple RTBs (per each Network Domain)
- Main RTB:
 - The main RTB will host the Transit Routes (i.e. the routes of the backbone layer) and the routes that belong to Unmanaged Network Domains (i.e. VPCs/Vnets not assigned to any Network Domains yet).

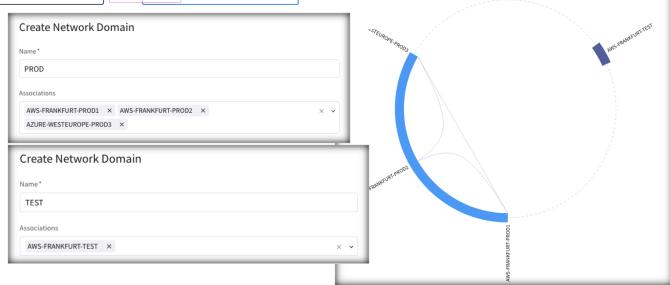
Spoke Gateway

Single RTB (Main)

Create the Network Domains:

- · Assign a Name to each Network Domain
- Associate the Spoke VPCs/Vnets and/or Site2Cloud Connections to the Network Domain

CAVEAT: You can create maximum **200** Network Domains per each Transit Gateway





3. Apply the Connection Policy (optional)

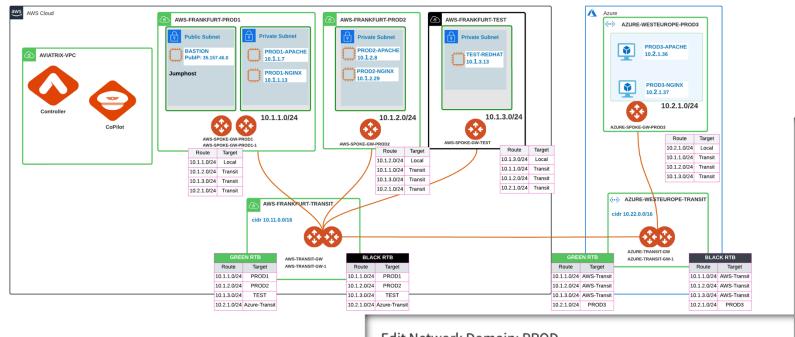


Black

Connection

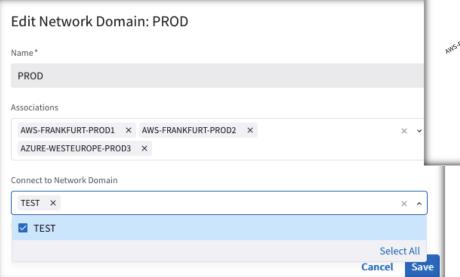
Policy

Green



Optionally, enable the Connection Policy:

• Network Domains' routing tables are merged (i.e. *vrf leaking*).







Next: Lab 3 - Network Segmentation

