

Network Segmentation

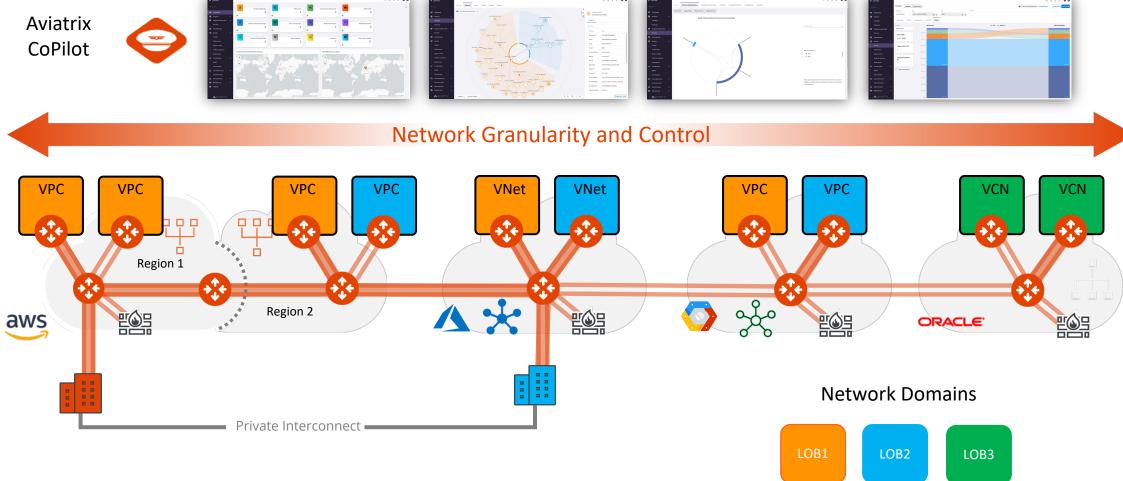
Segmentation



- 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

Multicloud Network Segmentation





Multicloud Network Segmentation



Policy Based Network Segmentation

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

Cloud and Connection Agnostic

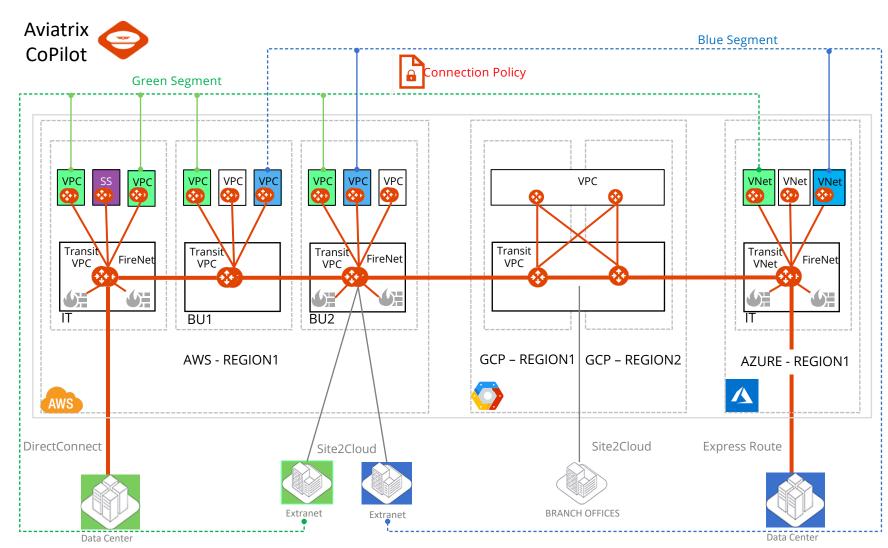
- Single cloud
- Intra-region or inter-region
- Multiple clouds

Edge/Access Segmentation

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

On-Demand Compliance/Governance

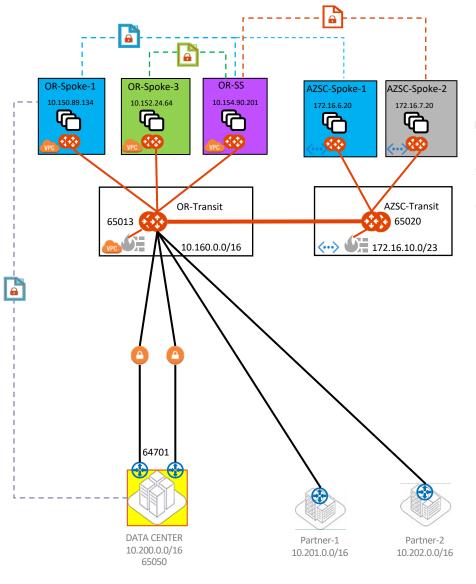
- Security Posture within minutes
- Aviatrix control plane realizes the intent
- Zero-Trust
- Flexible
- Automated





Multicloud Network Segmentation



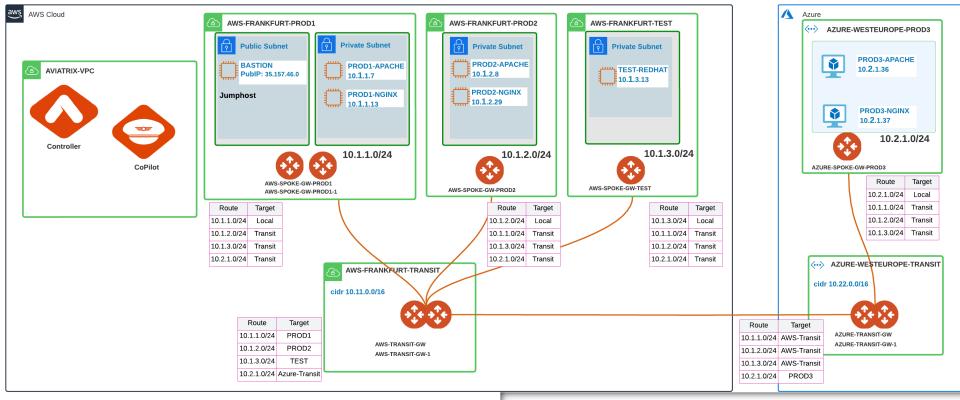


Name.	A7SC-Sr	nokel-	$\Delta G M$

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	

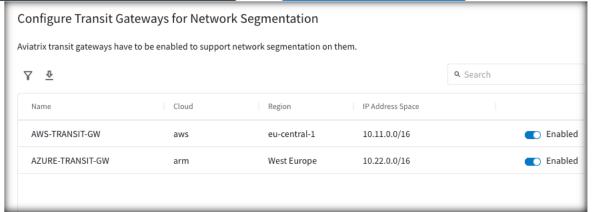
1. Enable Transit Gateways for Network Segmentation





Enable the Network Segmentation:

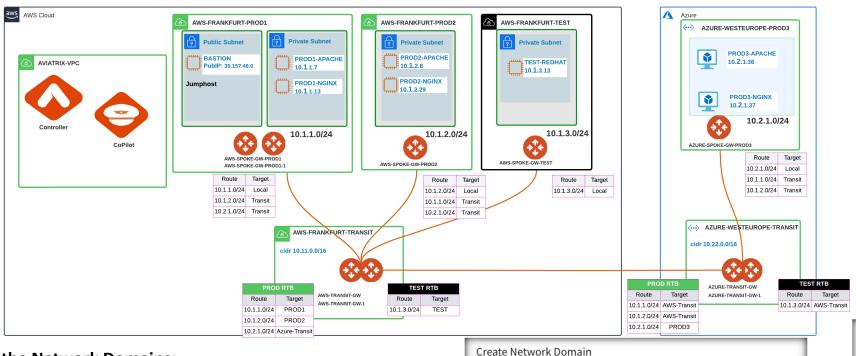
• Choose the Transit Gateway(s) that will route traffic for its members.





2. Create and Associate a Network Domain





PROD

AWS-FRANKFURT-PROD1 × AWS-FRANKFURT-PROD2 ×

AZURE-WESTEUROPE-PROD3 ×

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: A network-domain name can only have letters, digits, a hyphen (-), and an underscore (_). The name must start with a letter and must have 2-27 characters. For example, **Dev_Domain**.

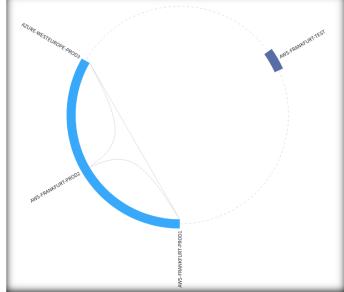


Transit Gateway

- 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

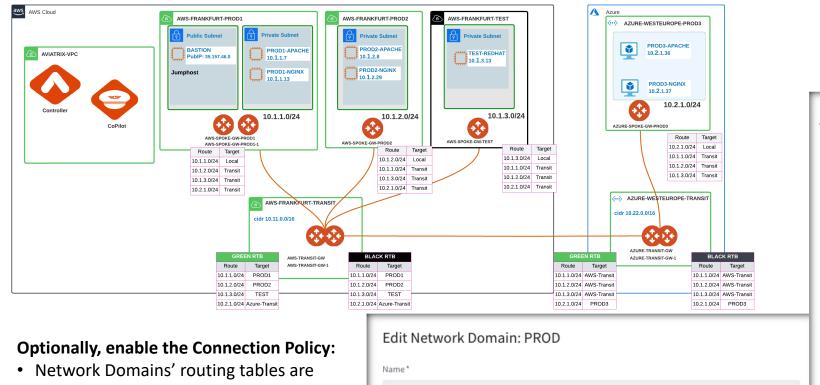
Single RTB (Main)



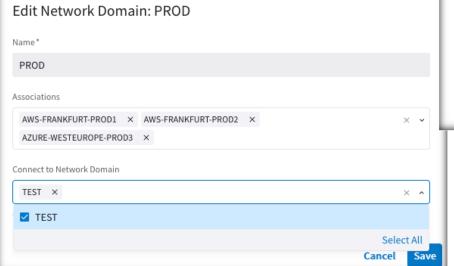


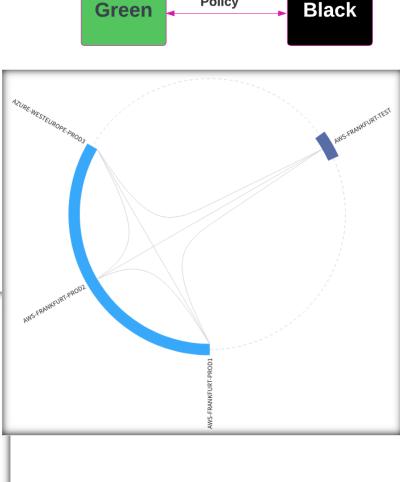
3. Apply the Connection Policy (optional)





merged (i.e. vrf leaking).





Connection

Policy

Green





Next: Lab 3 - Network Segmentation

