

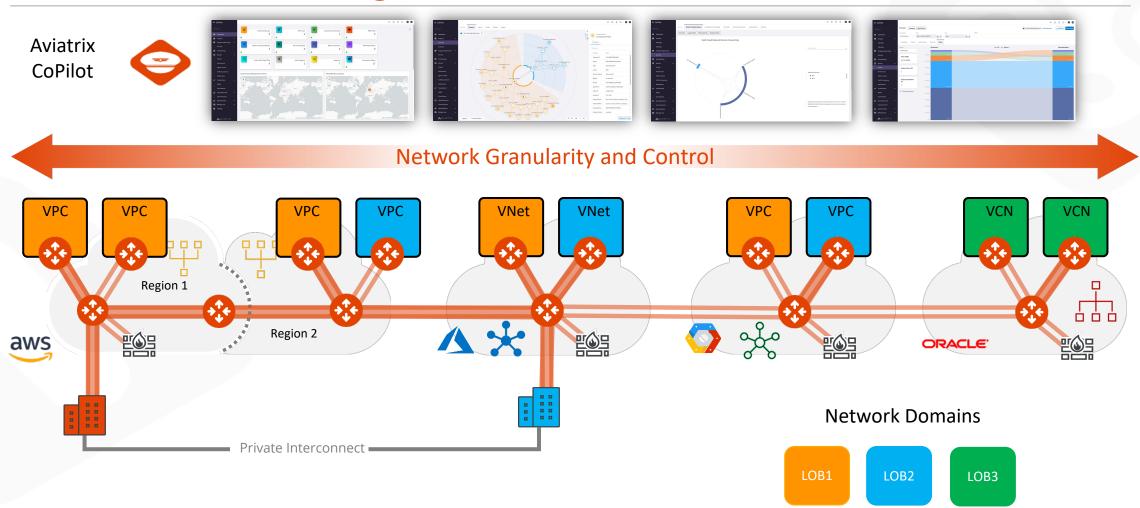
# **Network Segmentation**

## Segmentation

- Main Purpose: Enables ZTNA across multi-region and multicloud, including onpremises 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**

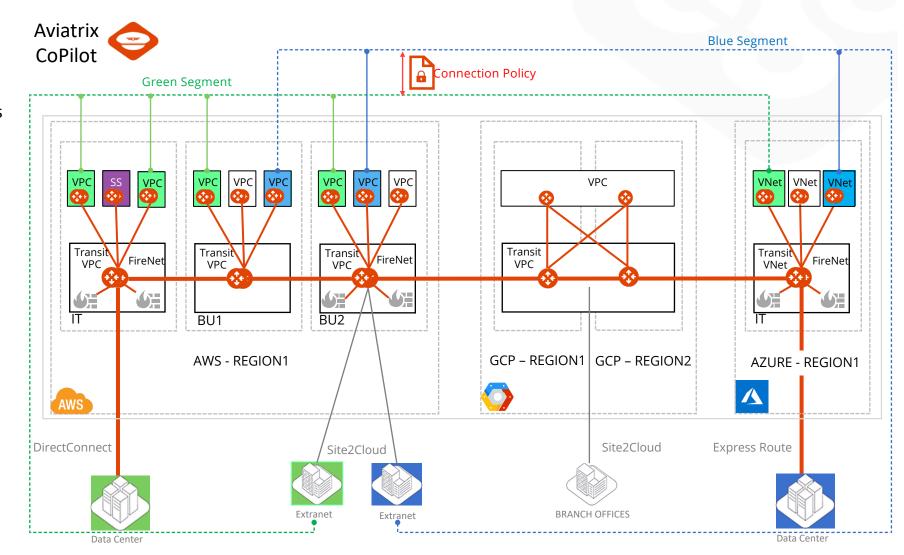
- Single cloud
- Intra-region or inter-region
- Multiple clouds

### **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





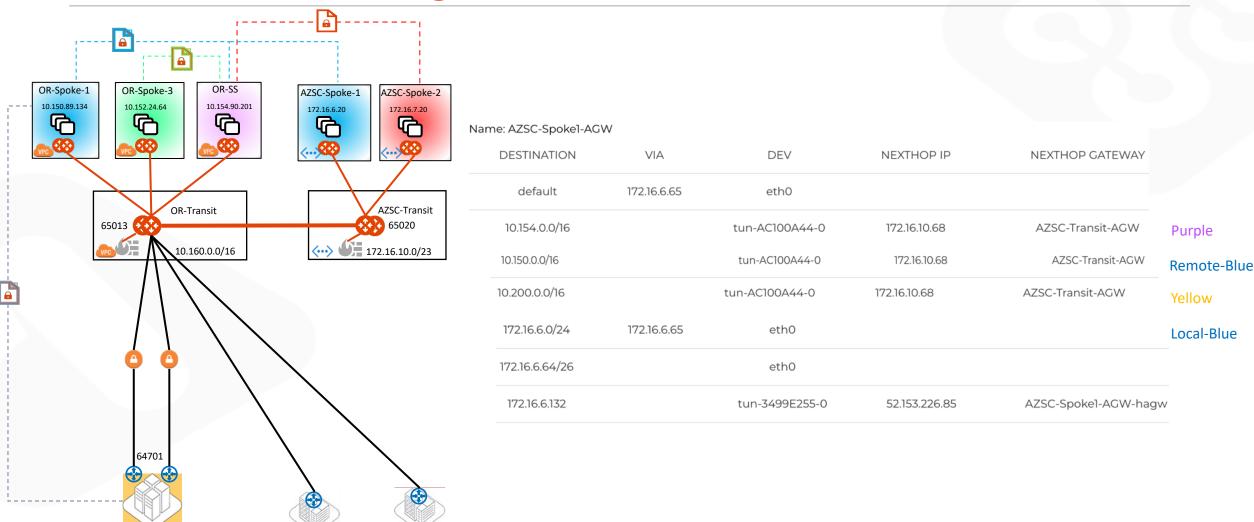
### Multicloud Network Segmentation

Partner-1

10.201.0.0/16

Partner-2

10.202.0.0/16



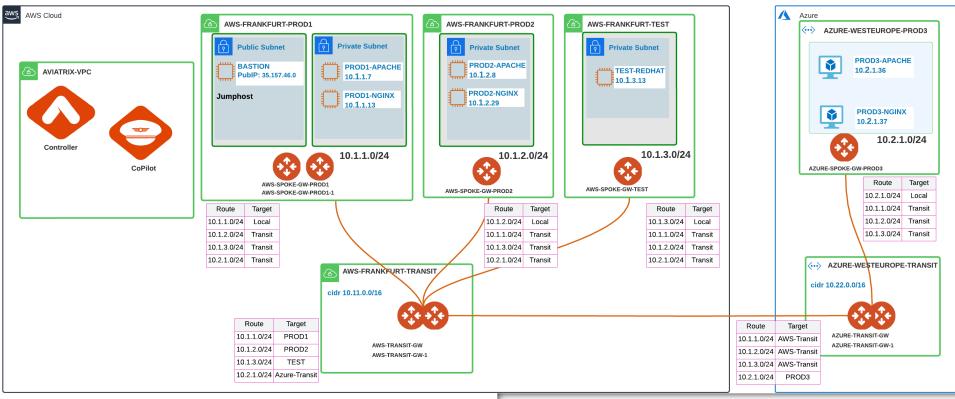


**DATA CENTER** 

10.200.0.0/16

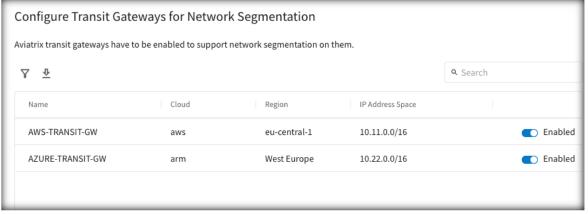
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# 1. Enabling Transit Gateways for Network Segmentation



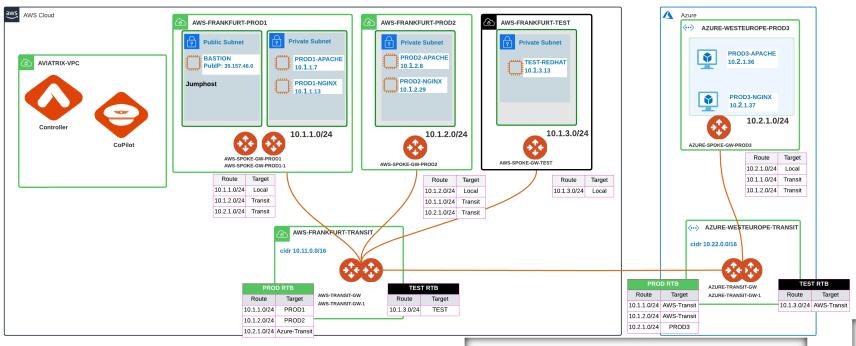
#### **Enable the Network Segmentation:**

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





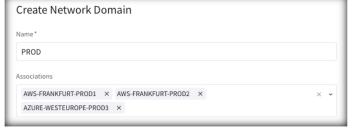
### 2. Creating and Associating a Network Domain



#### **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**.



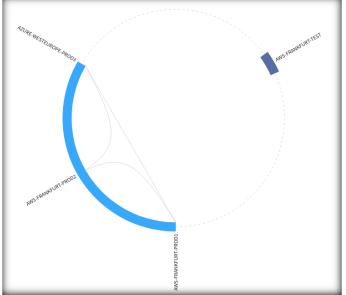
Create Network Domain		٦
Name*		
TEST		
Associations		
AWS-FRANKFURT-TEST ×	×	

#### **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).

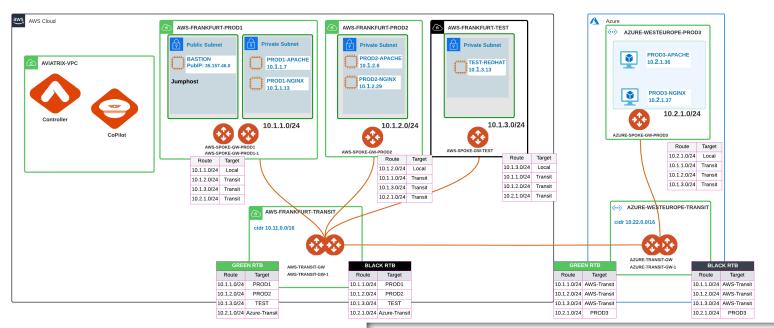
#### **Spoke Gateway**

• Single RTB (Main)



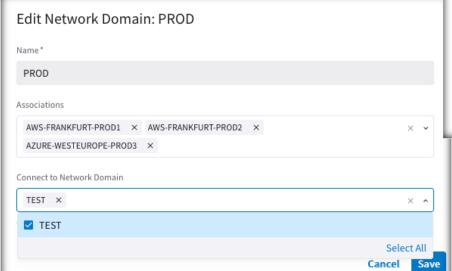


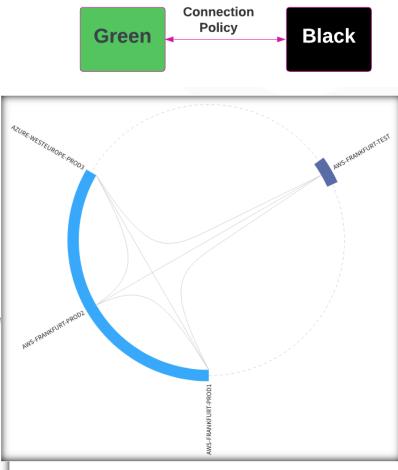
# 3. Apply the Connection Policy (optional)



### Optionally, enable the Connection Policy:

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









Next: Lab 3 - Network Segmentation