

# **Network Segmentation**

### Segmentation

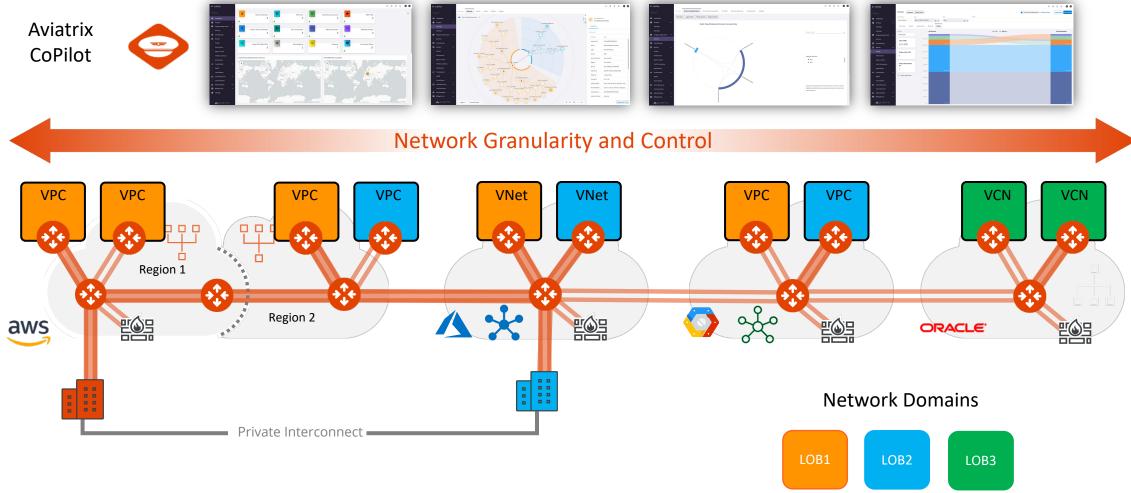


- Enables ZTNA across multi-region and multicloud, including on-premises environment
- Group VNets/VPCs/VCNs/Apps with similar security policies
- Define your own domains
- Use Cases
  - Compliance
  - Governance
  - Audits



# Cloud and Multicloud Network Segmentation







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#### **Policy Based Network Segmentation**

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

#### **Cloud and Connection Agnostic**

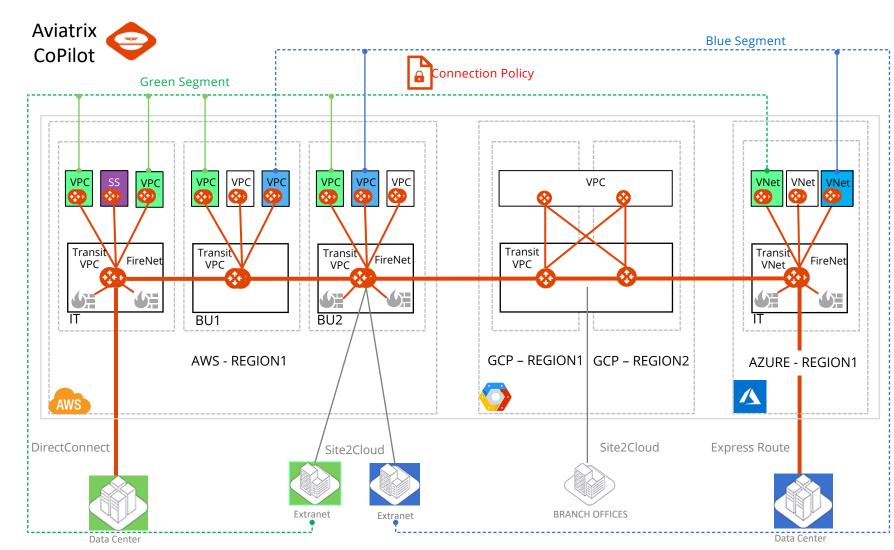
- Single cloud
- Intra-region or inter-region
- Multiple clouds

#### **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

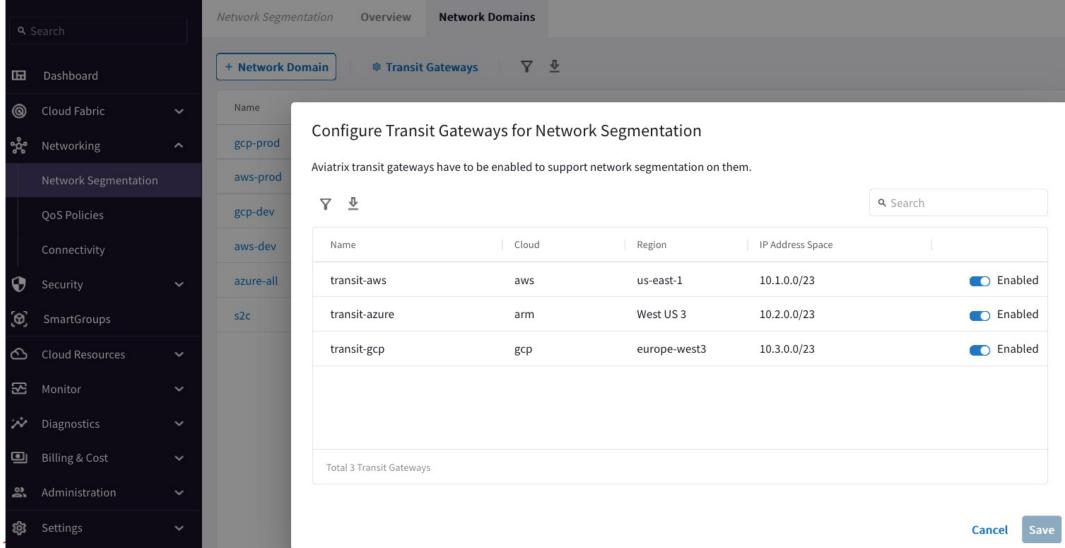




# **Network Segmentation**



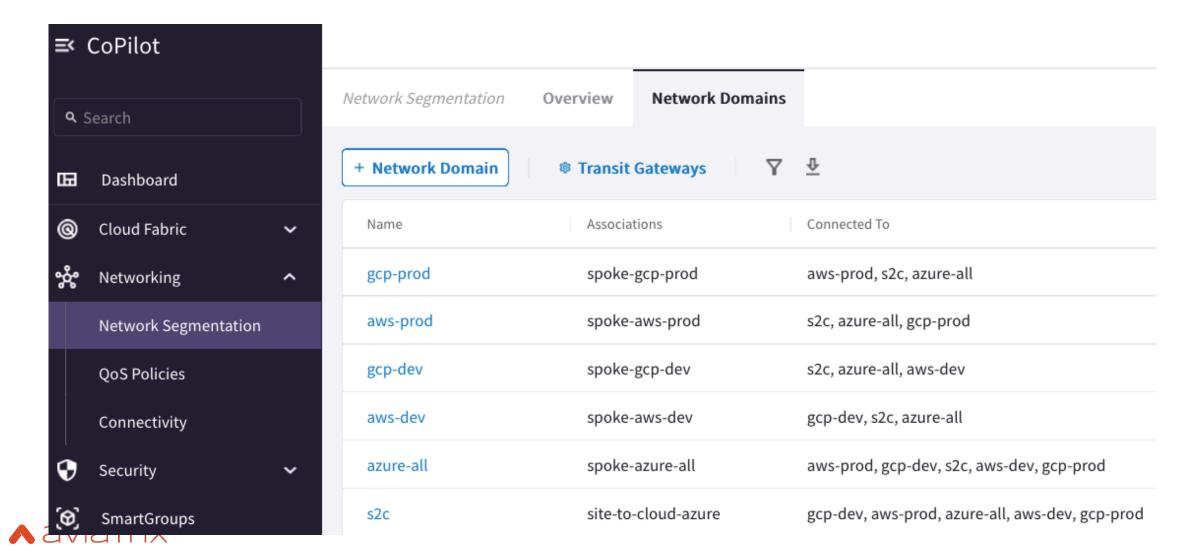
### 1- Enable Transit Gateway for Segmentation



# **Network Segmentation**

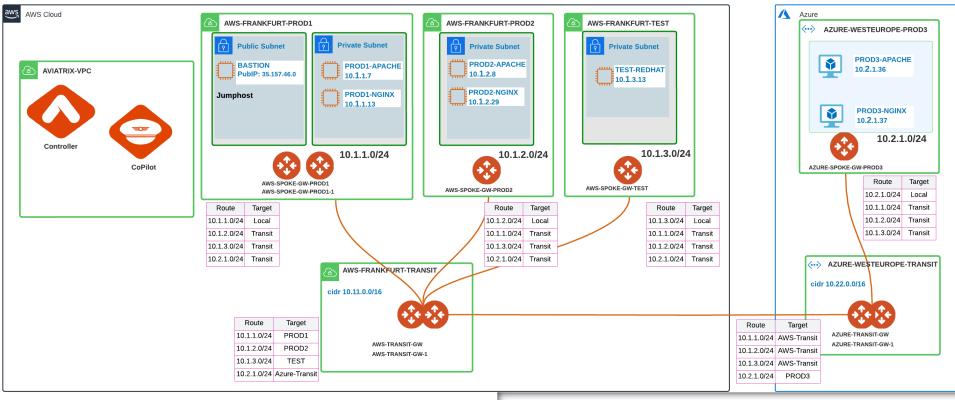


- 2- Create Network Domain (aka Network Segments think of them as VRFs)
- 3- Create the association between Network Domains (aka Network Segments)



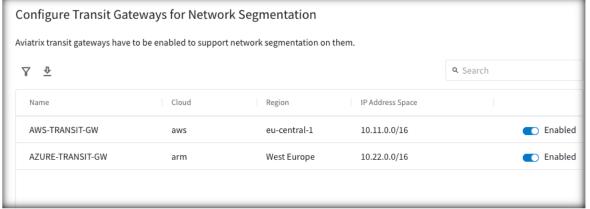
# 1. Enabling a Transit Gateway for Network Segmentation





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

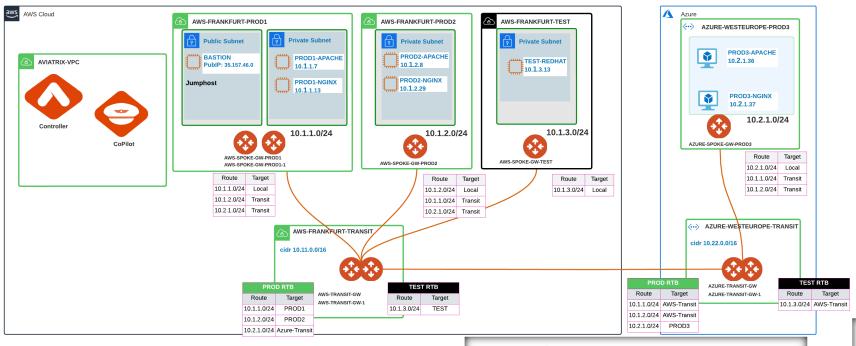
• Choose the Transit Gateway(s) that will route traffic for its members.





# 2. Creating, Connecting, 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 Dor	nain	
lame*		
PROD		
Associations		
AWS-FRANKFURT-PROD1 ×	AWS-FRANKFURT-PROD2 ×	× •
AZURE-WESTEUROPE-PROD3	×	

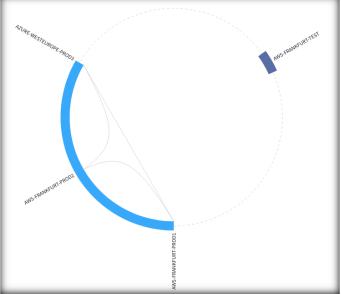
Create Network Domain	
Name *	
TEST	
Associations	
AWS-FRANKFURT-TEST ×	× •

#### **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).

#### **Spoke Gateway**

• Single RTB (Main)



# 3. Apply the Connection Policy

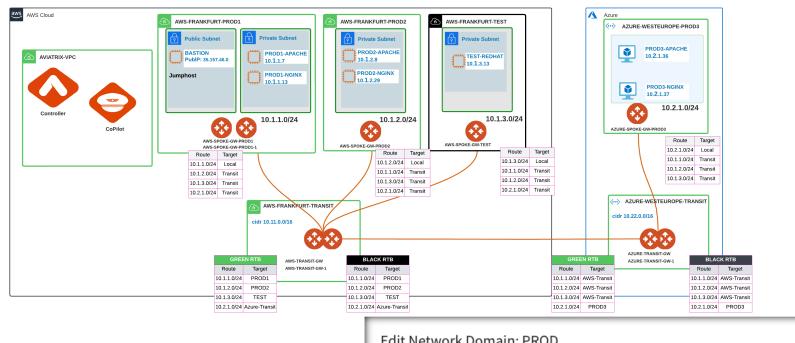


Black

Connection

**Policy** 

Green



### Optionally, enable the Connection Policy:

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

