

# Aviatrix Edge

## Technical Details

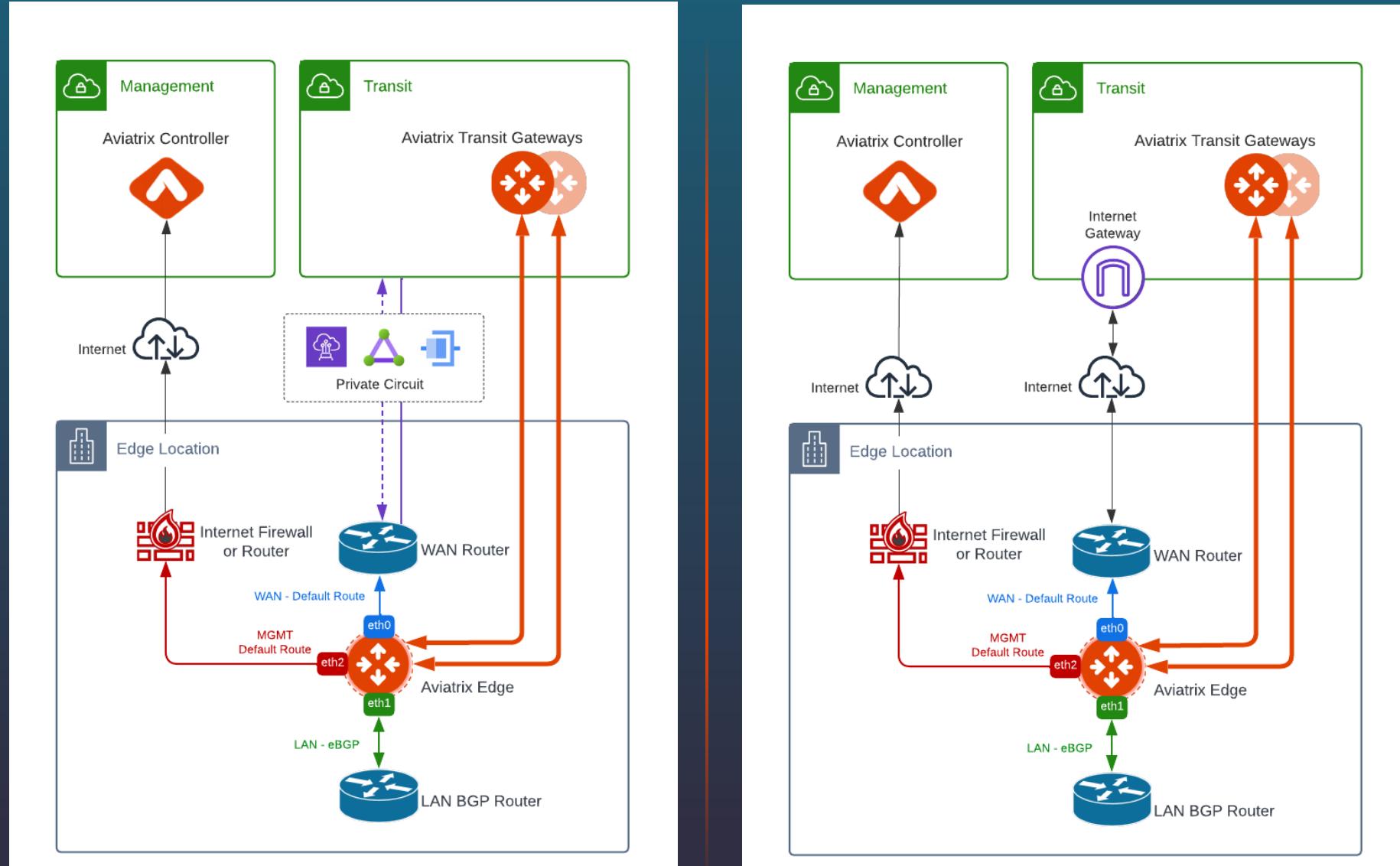


# Aviatrix Edge

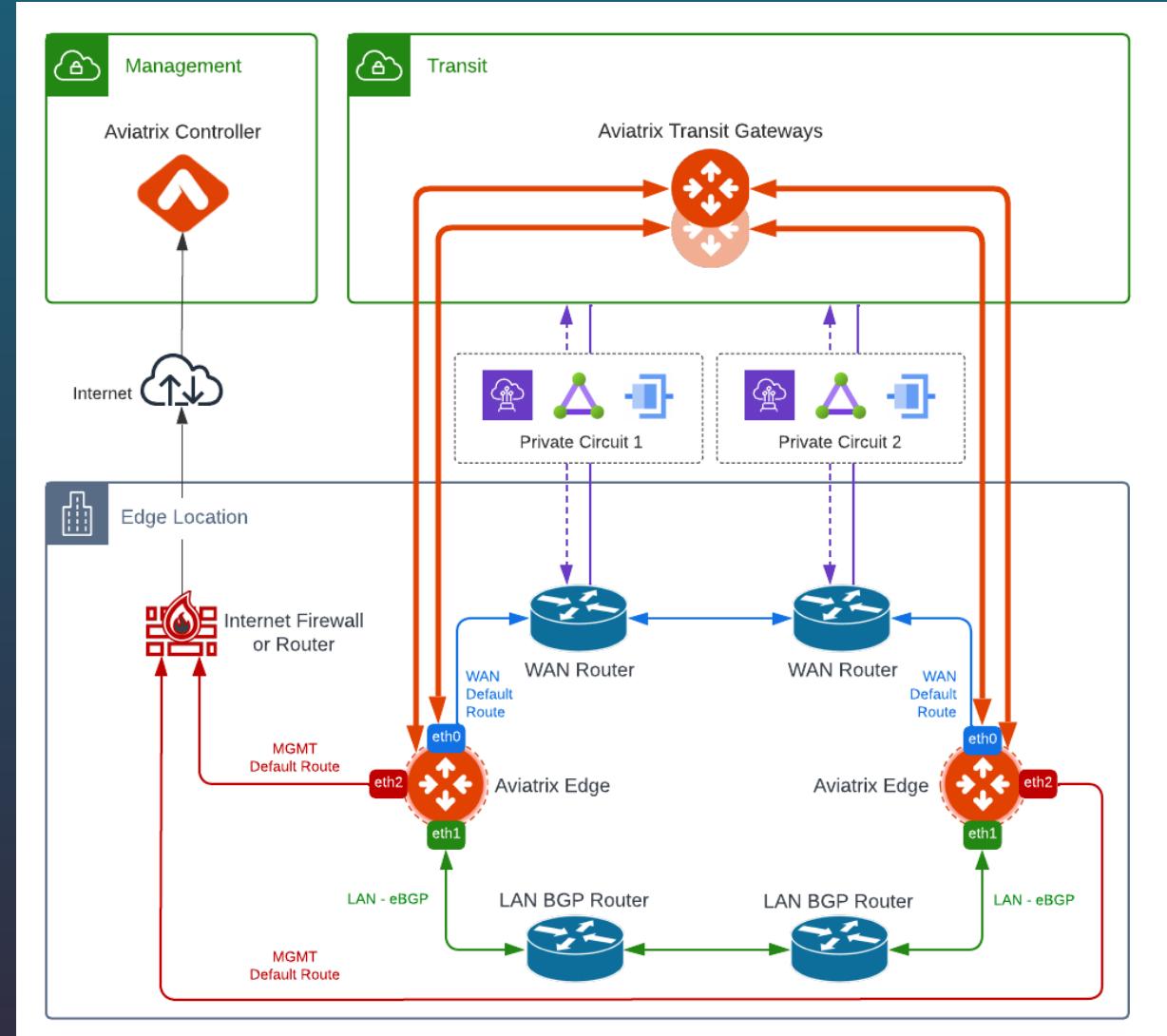
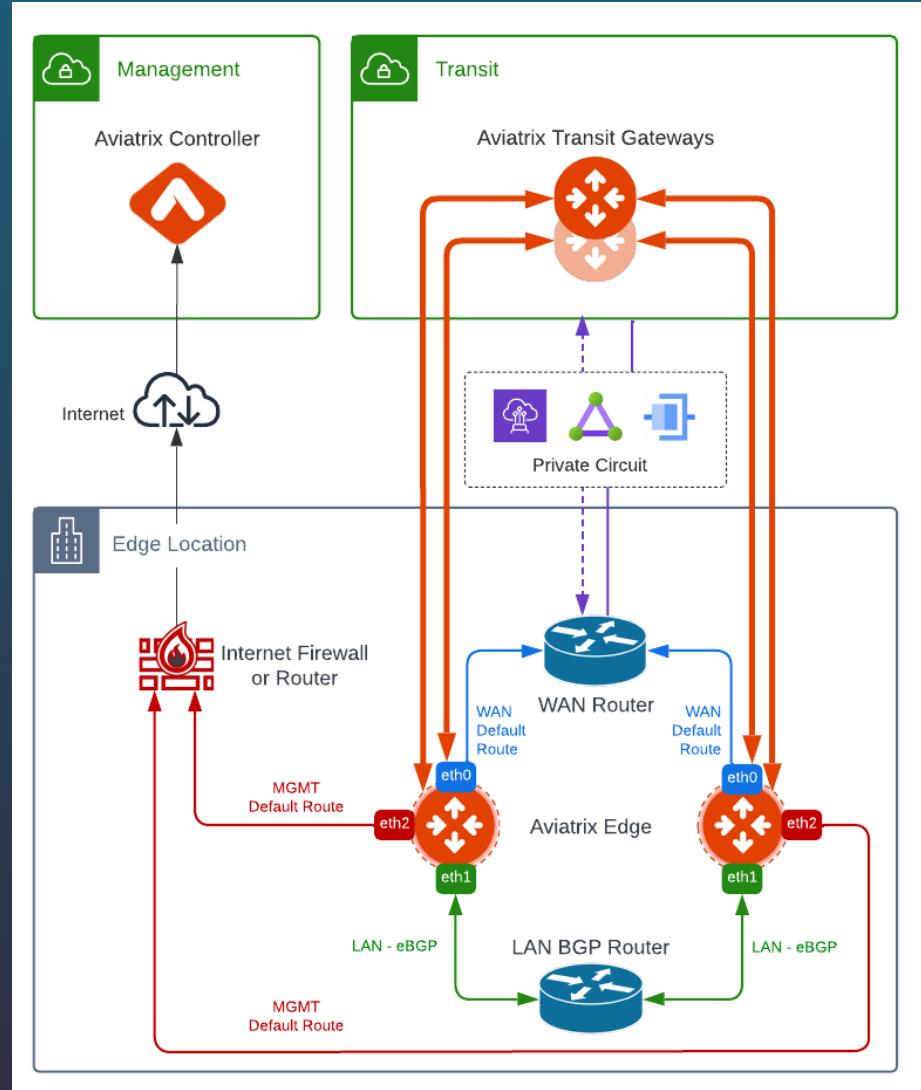
- **WAN Interface**
  - Connects to underlay
- **LAN Interface**
  - Connects to LAN switches, routers, firewalls, virtual devices
- **Management Interface**
  - Outbound access to Aviatrix Controller & software patches
- **Tunnel Interface**
  - Number of overlay tunnel interfaces



# Aviatrix Edge Spoke to Aviatrix Transit Attachment

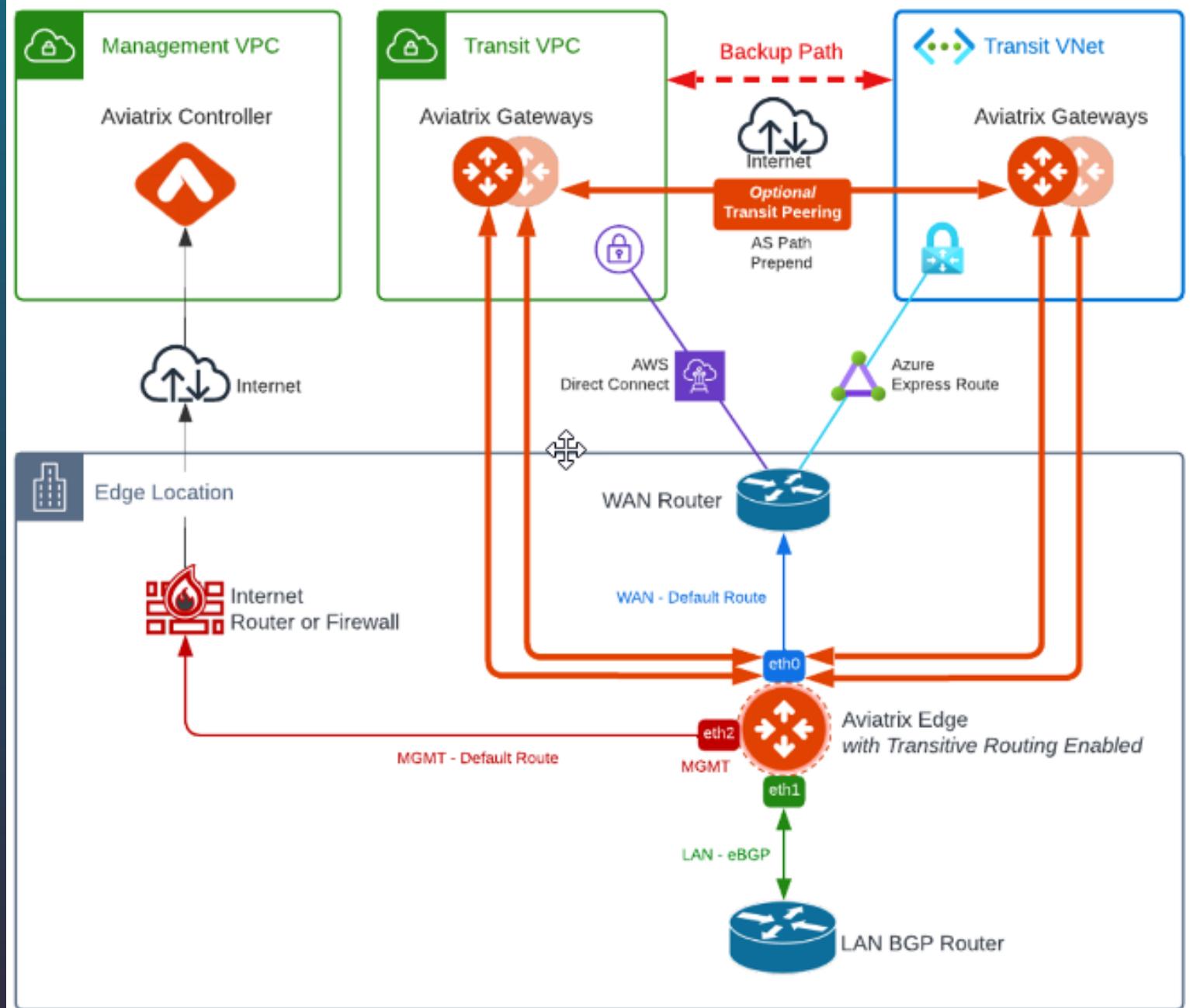


# Redundant Edge Spoke Connectivity

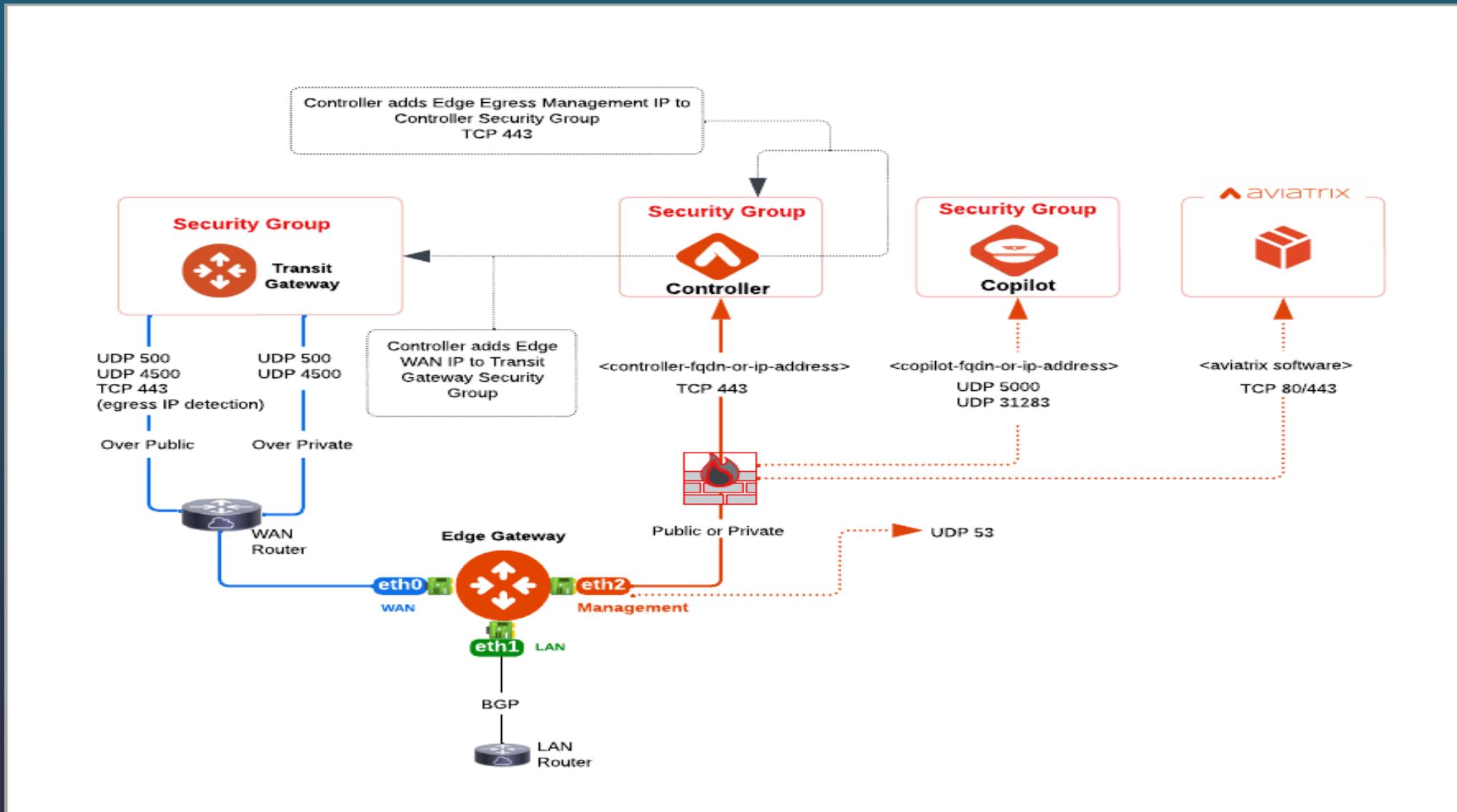


# Transitive Routing

- Aviatrix Edge enables forwarding of routes between multiple Transit Gateways
- Transitive Routing is disabled by default
- Configurable feature



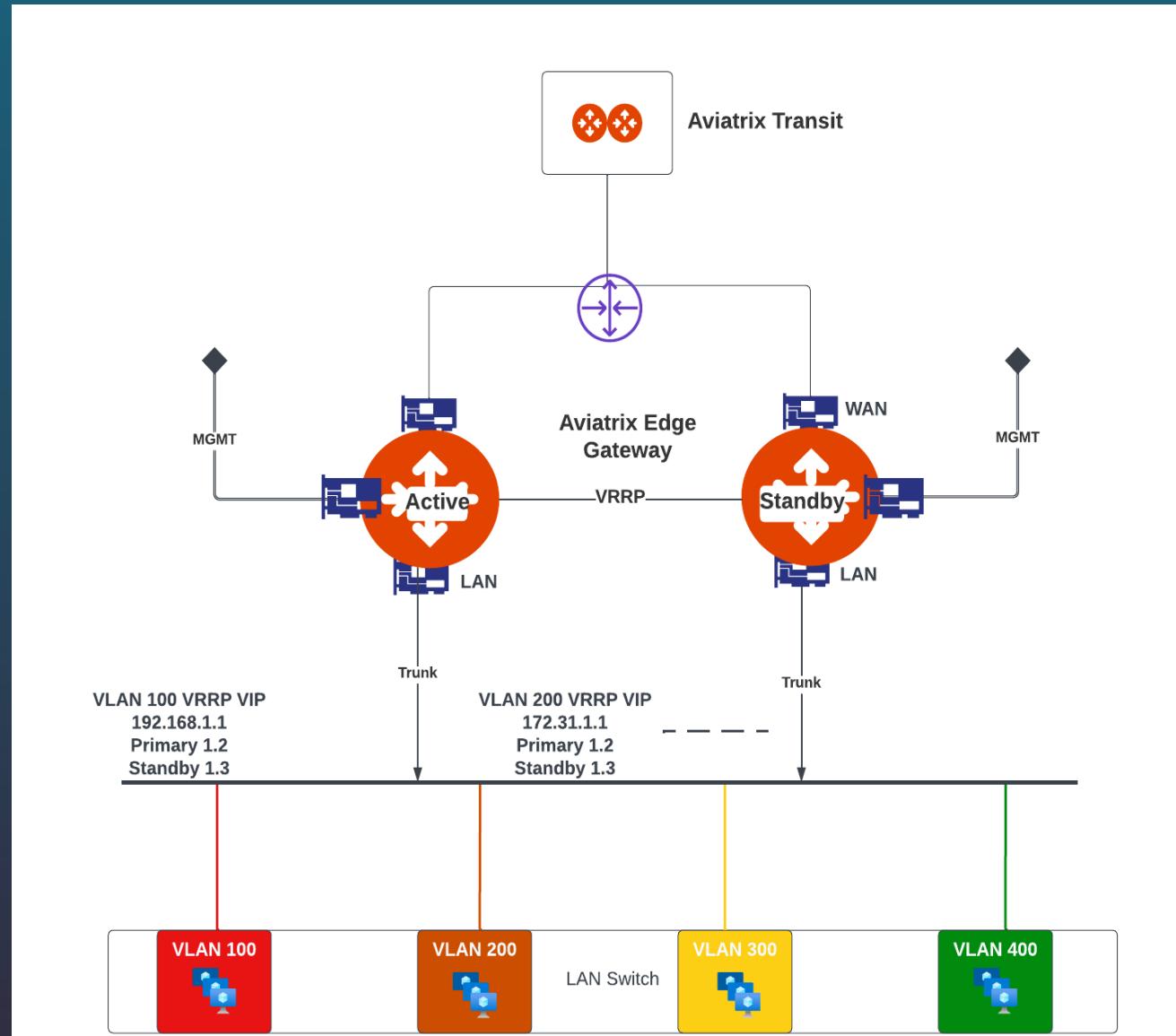
# Aviatrix Edge as Spoke Gateway Interfaces Ports and Protocols



# Aviatrix Edge as Spoke - VLAN and VRRP Support

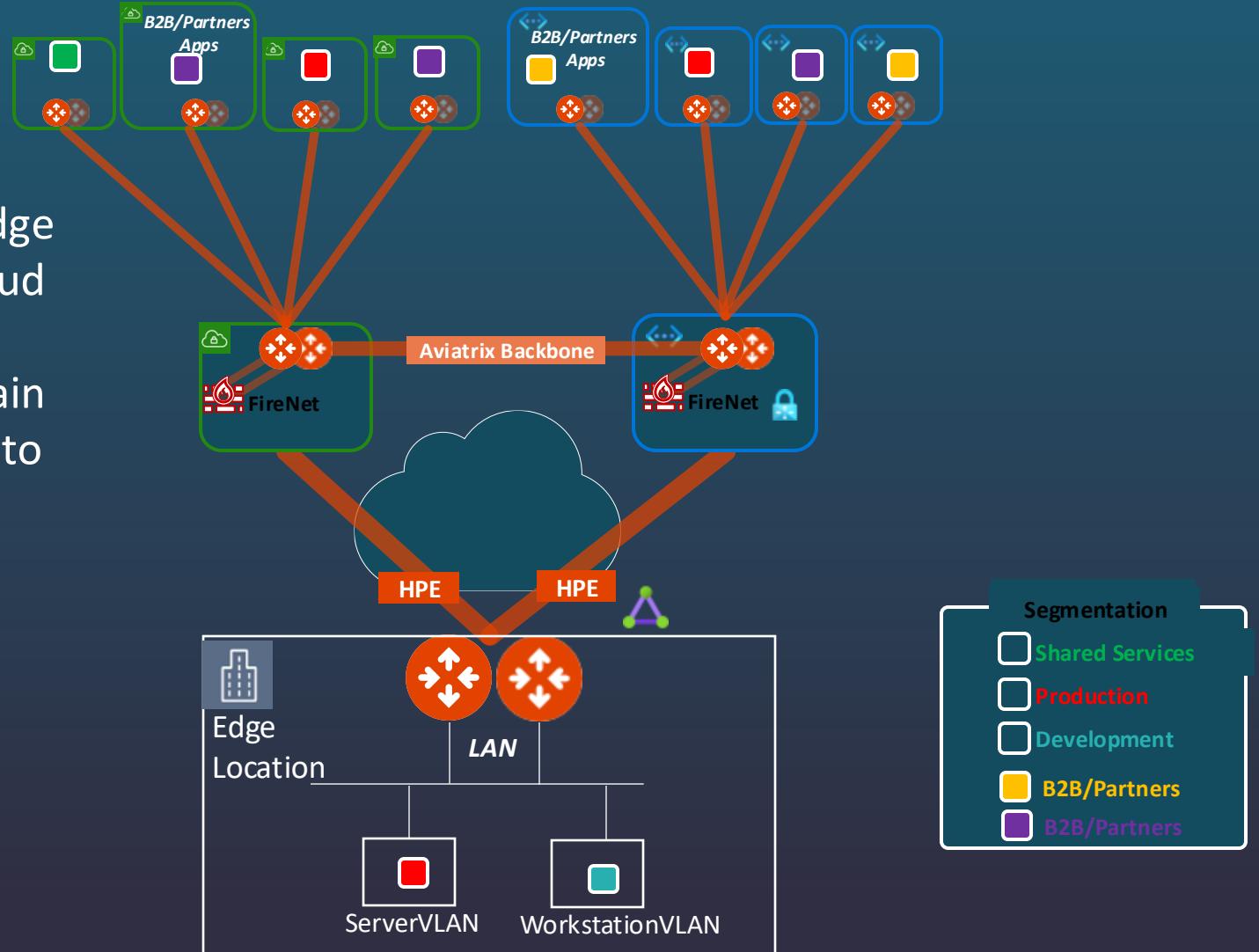
Use case: Large office hub, Factory location with LAN side need

- VLAN support
  - Edge GW can support multiple VLANs on LAN side.
  - Edge as default GW for VLANs CIDRs
  - VLAN range supported: 2-4092
- VRRP support on LAN side:
  - VRRP HA on LAN side – A/S mode
  - Primary GW is active for all VLANs



# Aviatrix Edge as Spoke - VLAN Network Domains

- Maintain network isolation from cloud to edge
- Simplified and consistent policies across cloud and network
- VLANs can be associated to a network domain
- Define domain connection policy for VLANs to CSP Spokes and/or VLAN to VLAN traffic
- Easily extend the segmentation domains to new connections



# Aviatrix Edge - DCF using CIDRs

- DFW policy enforcement using CIDRs at Edge
- Secure workload access on-prem <-> cloud

The screenshot shows the Aviatrix DCF interface under the 'Rules' tab. A single rule is listed:

Priority	Name	Source	Destination	Action
0	● LANServertoDBAcc	LANServer	DBServer	Allow

Details for the rule:

Priority	Source	Destination	Protocol
0	LANServer	DBServer	Any

Action details:

Action	Port	Logging	Traffic Count
Allow		On	150

Entity details:

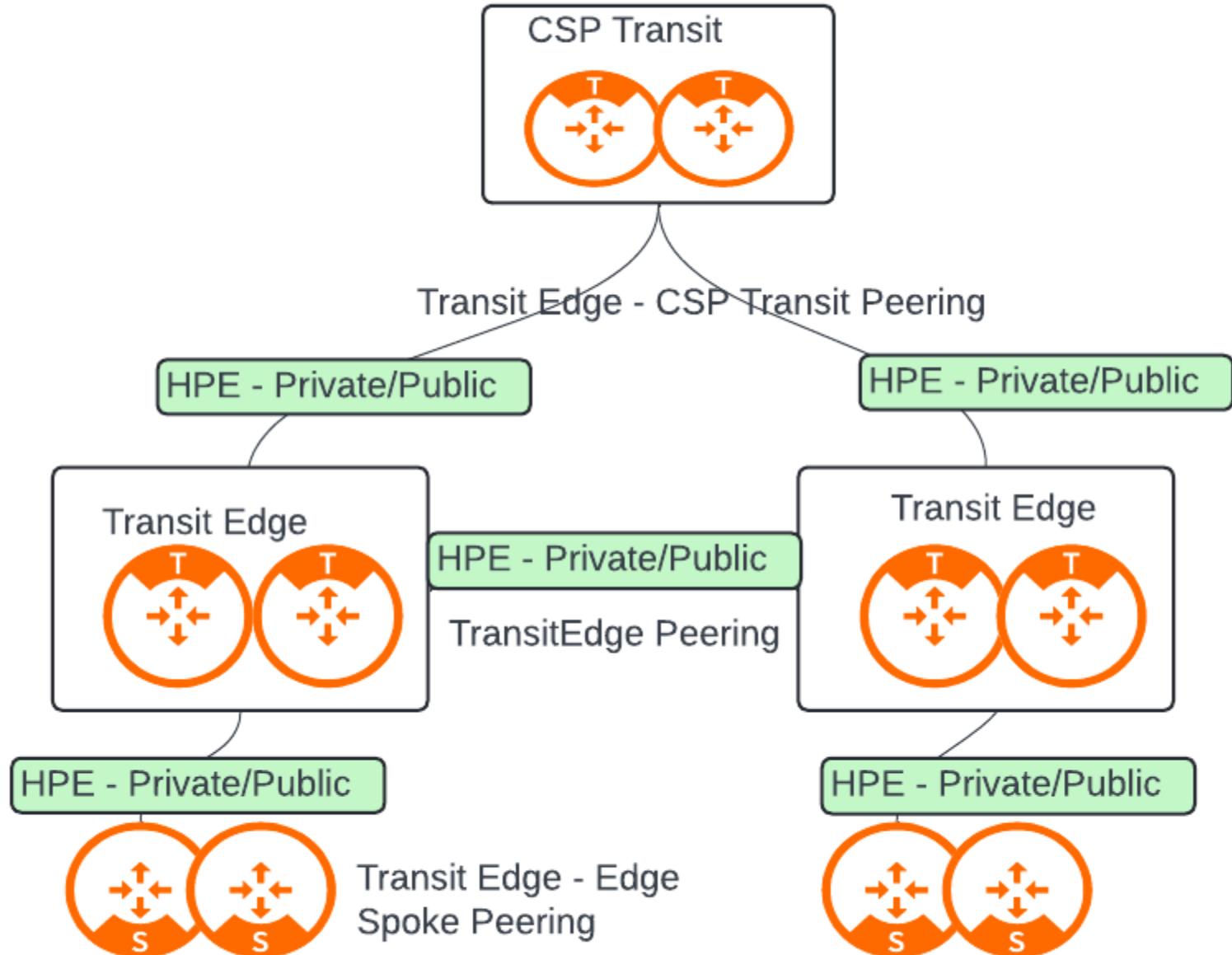
Source Entities (1)		Destination Entities (1)		Statistics
Name	Type	Cloud	Region	
10.222.42.1	IP Address			

Central Intent Policy —→ Distributed Enforcement

# Transit Edge – Peering

Aviatrix Edge Platform (AEP)

Type	HPE		non-HPE	
	Public	Private	Public	Private
EaT - CSP Transit	Yes	Yes	Yes	Yes
EaT - EaT	Yes	Yes	Yes	Yes
EaT - EaS	Yes	Yes	Yes	Yes

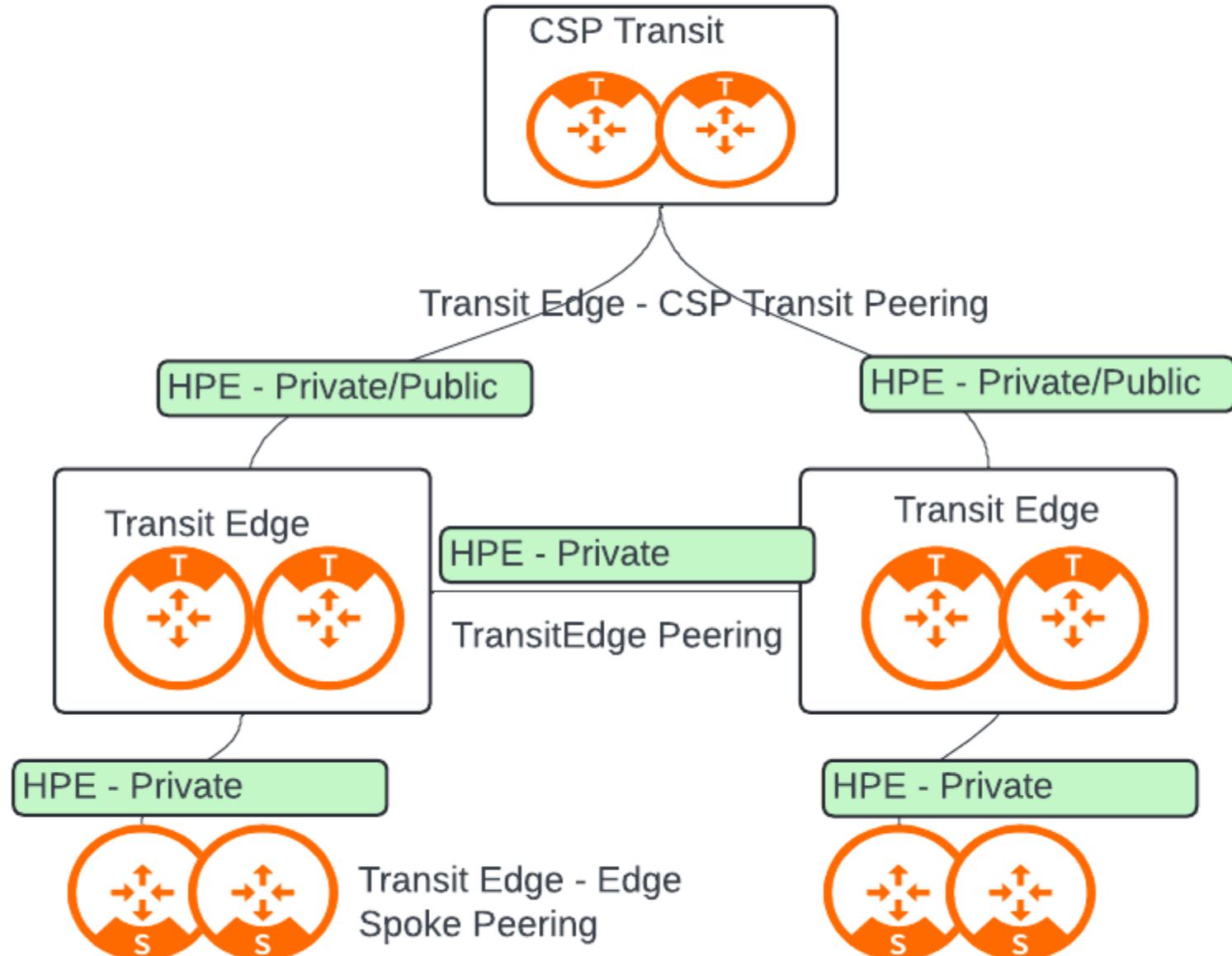


# Transit Edge – Peering

Equinix

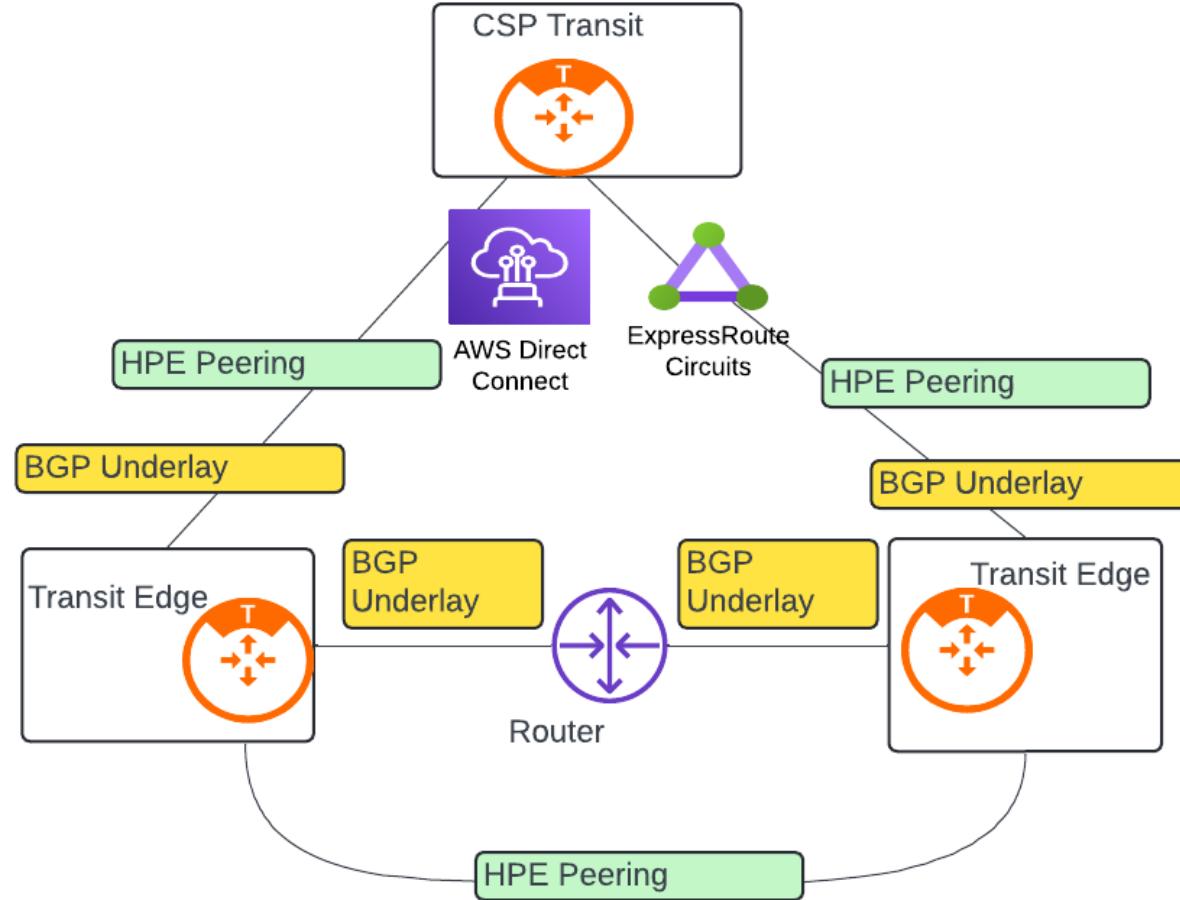
Type	HPE		non-HPE	
	Public	Private	Public	Private
EaT - CSP Transit	Yes	Yes	Yes	Yes
EaT - EaT*	No	Yes	Yes	Yes
EaT - EaS*	No	Yes	Yes	Yes

Equinix Network Edge does not support multiple public IP addresses on a virtual device interface



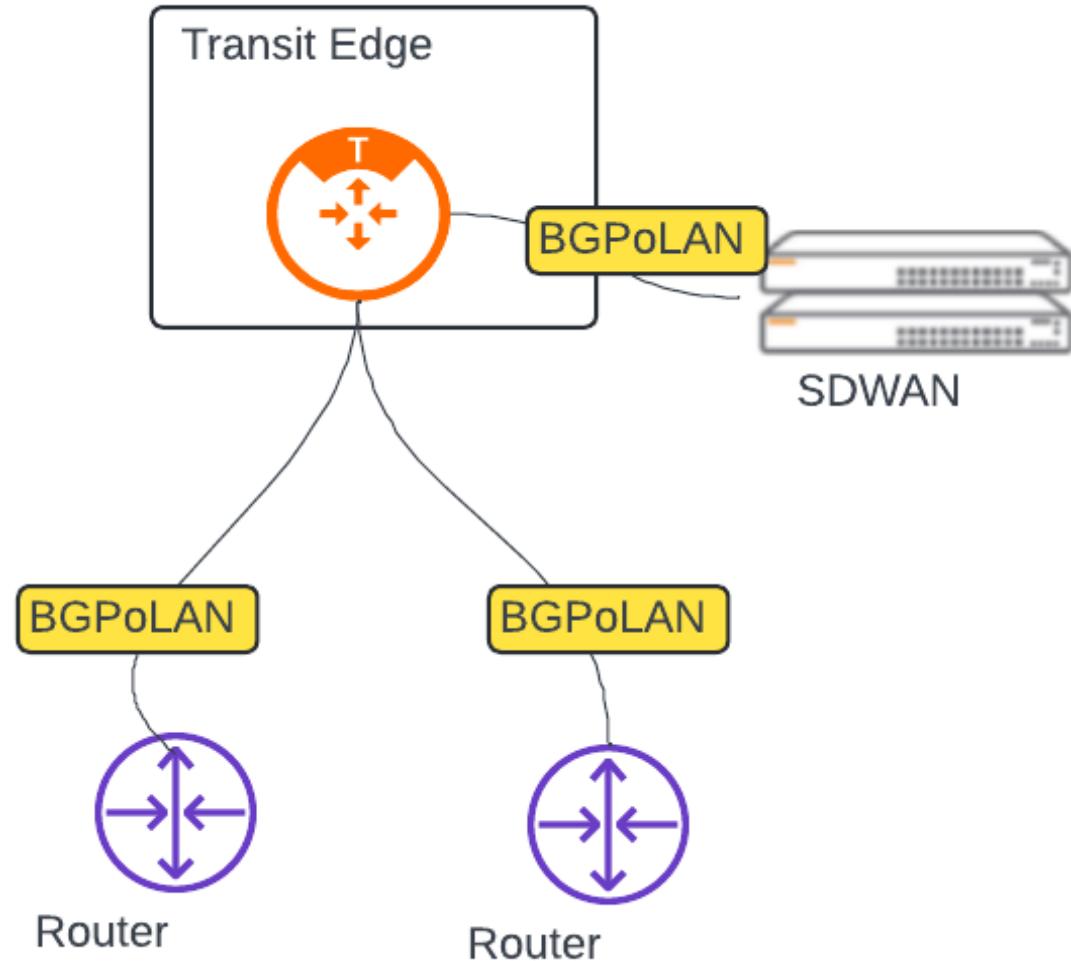
# Transit Edge- BGP Underlay

- BGP underlay to private CSP circuits (DX, ER)
- BGP underlay to DC router



# Transit Edge- BGPoLN

- BGPoLN to DC routers
- BGPoLN to SDWAN



# Transit Edge

- EaT supports most CSP transit features
  - AS path prepend
  - BGP configuration
  - BGP manual summary
  - Route Approval
  - Connected Transit
  - MTT
  - Segmentation

The screenshot shows the AviatrIX interface for managing a Transit Edge gateway named "e2e-edge-transit-1". The top navigation bar includes icons for back, forward, and search, followed by the gateway name and edit, copy, and delete buttons. Below the navigation is a horizontal menu bar with tabs: Details, Instances, Gateway Interfaces, Attachments, VPC/VNet Route Tables, Gateway Routes, Interface Stats, Route DB, Performance, and Settings (which is currently selected). A search bar is located below the menu. The main content area displays several sections: "Network Address Translation (NAT)", "General", "Border Gateway Protocol (BGP)", and "Routing". Each section has a small expand/collapse arrow icon to its left.