Aviatrix Edge

Technical Details

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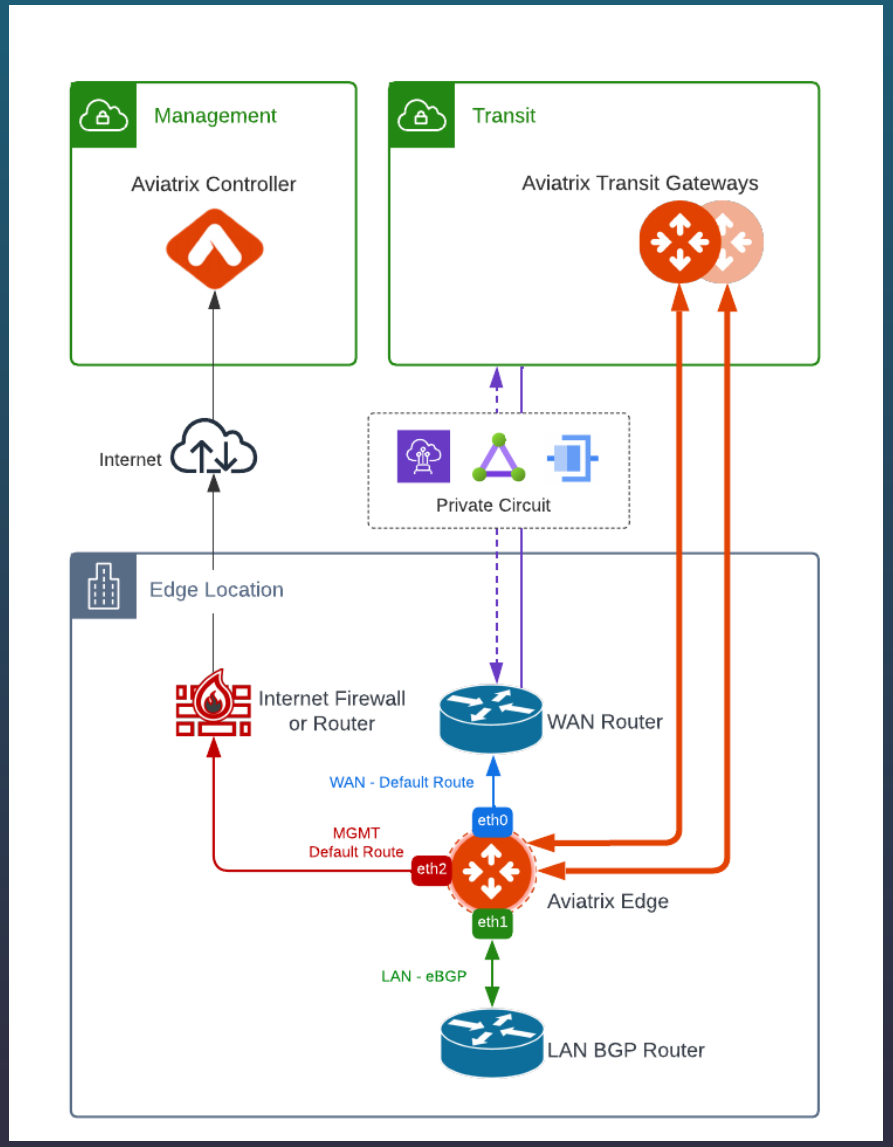
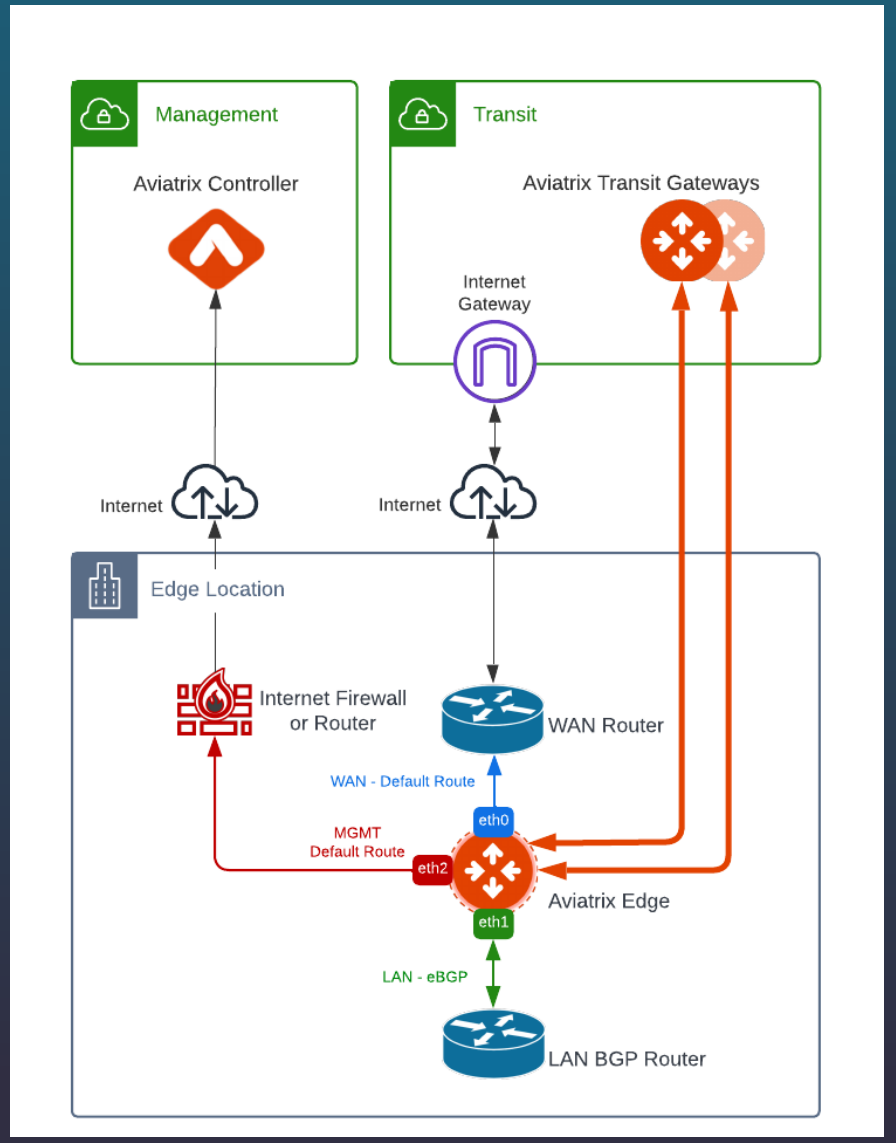
Aviatrix Edge

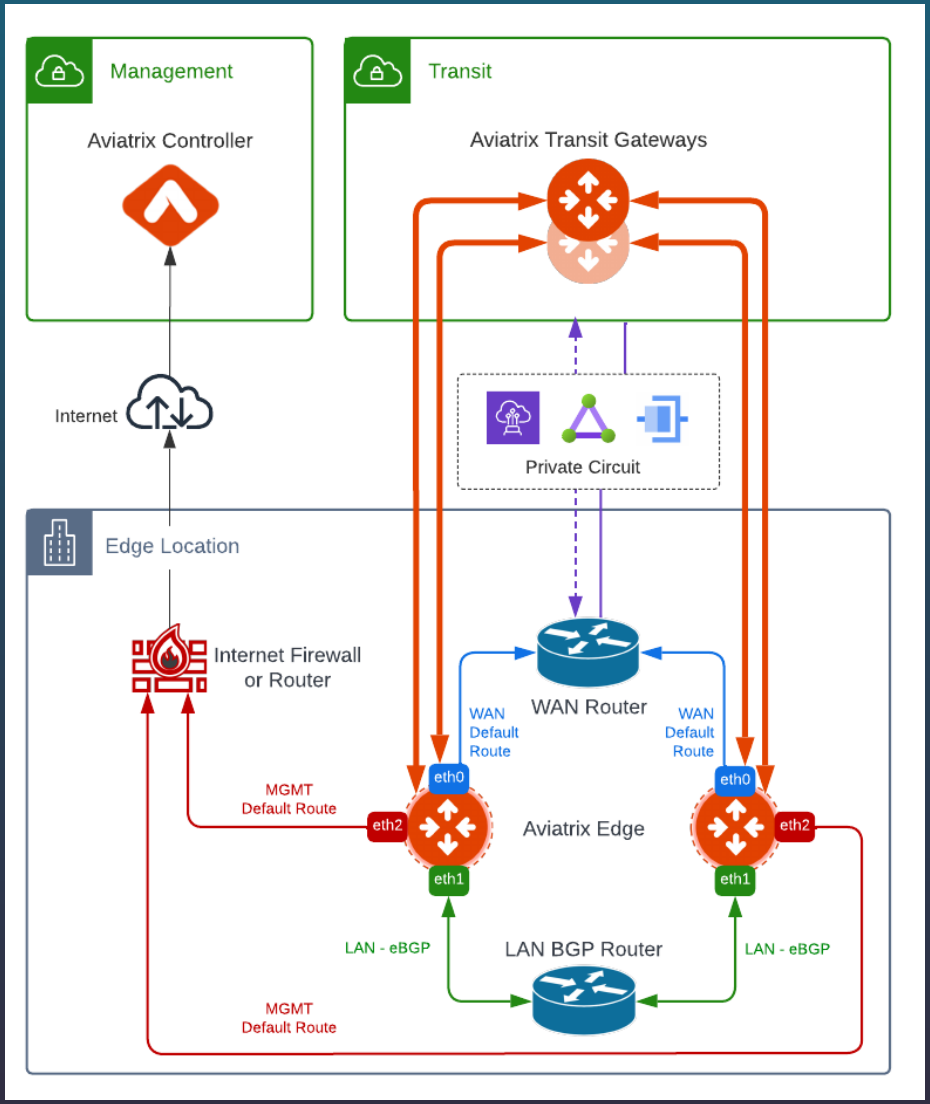
- **WAN Interface**
  - Connects to underlay
- **LAN Interface**
  - Connects to LAN switches, routers, firewalls, virtual devices
- **Management Interface**
  - Outbound access to Aviatrix Controller & software patches
- **Tunnel Interface**
  - Number of overlay tunnel interfaces

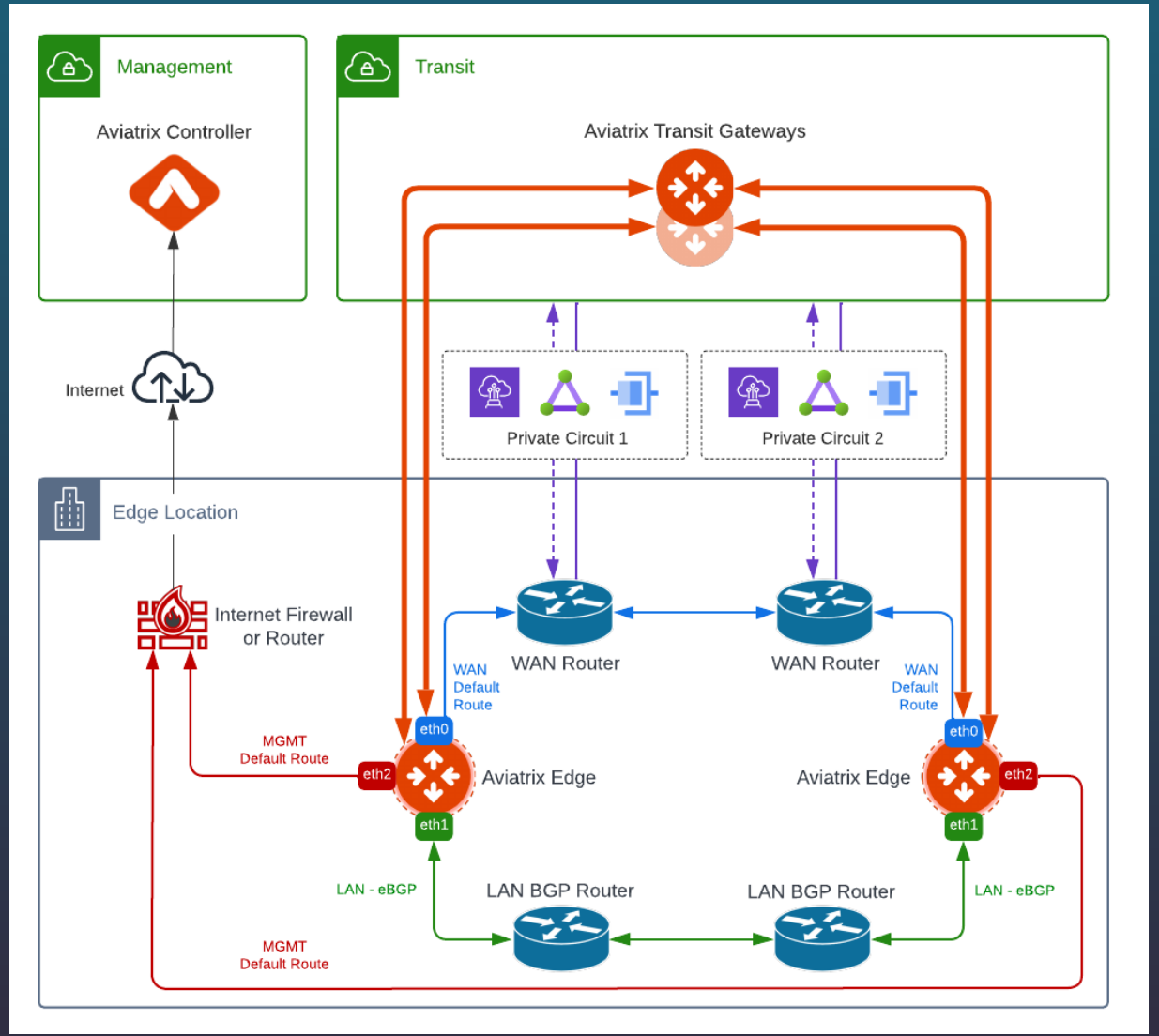
Aviatrix Edge Spoke to Aviatrix Transit Attachment





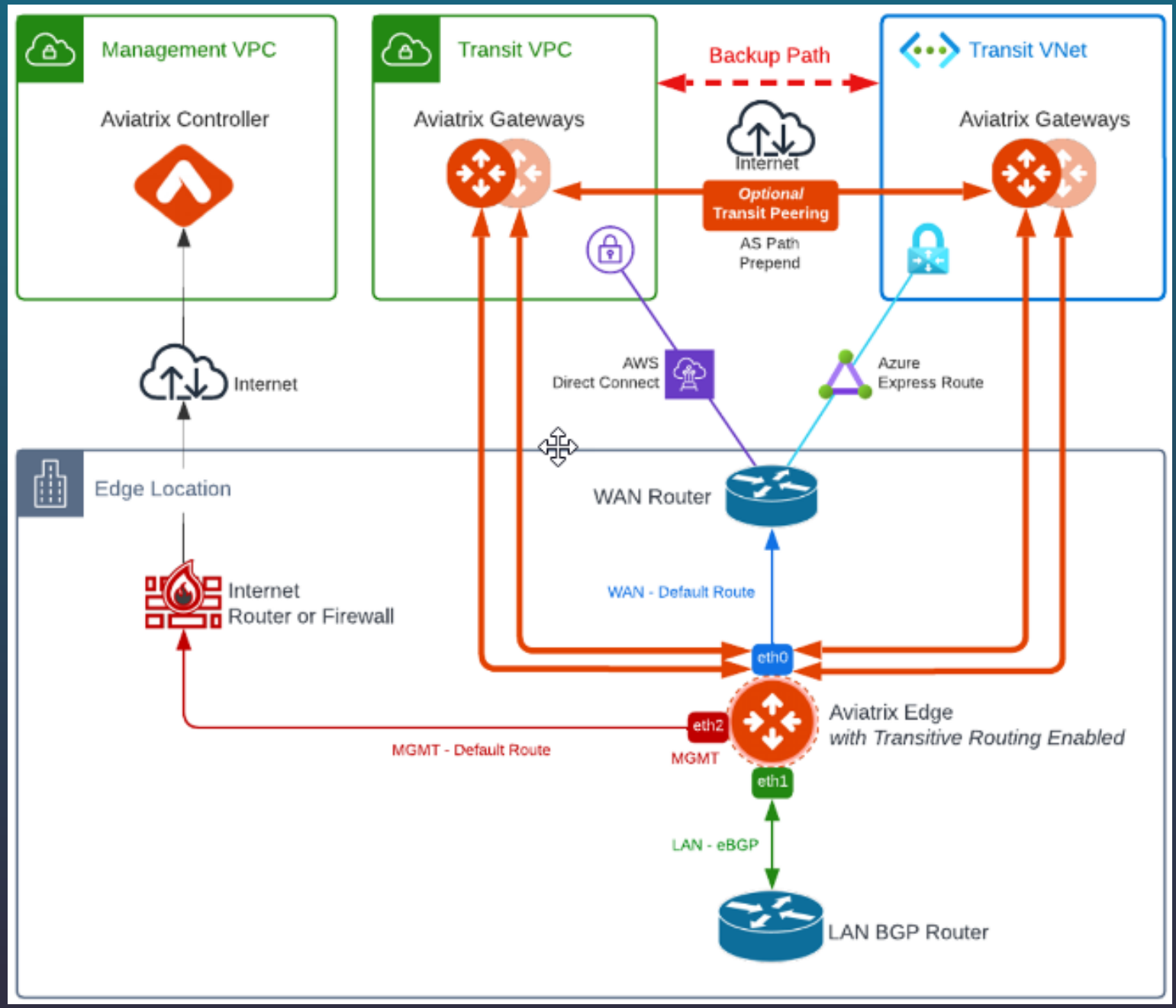
Redundant Edge Spoke Connectivity



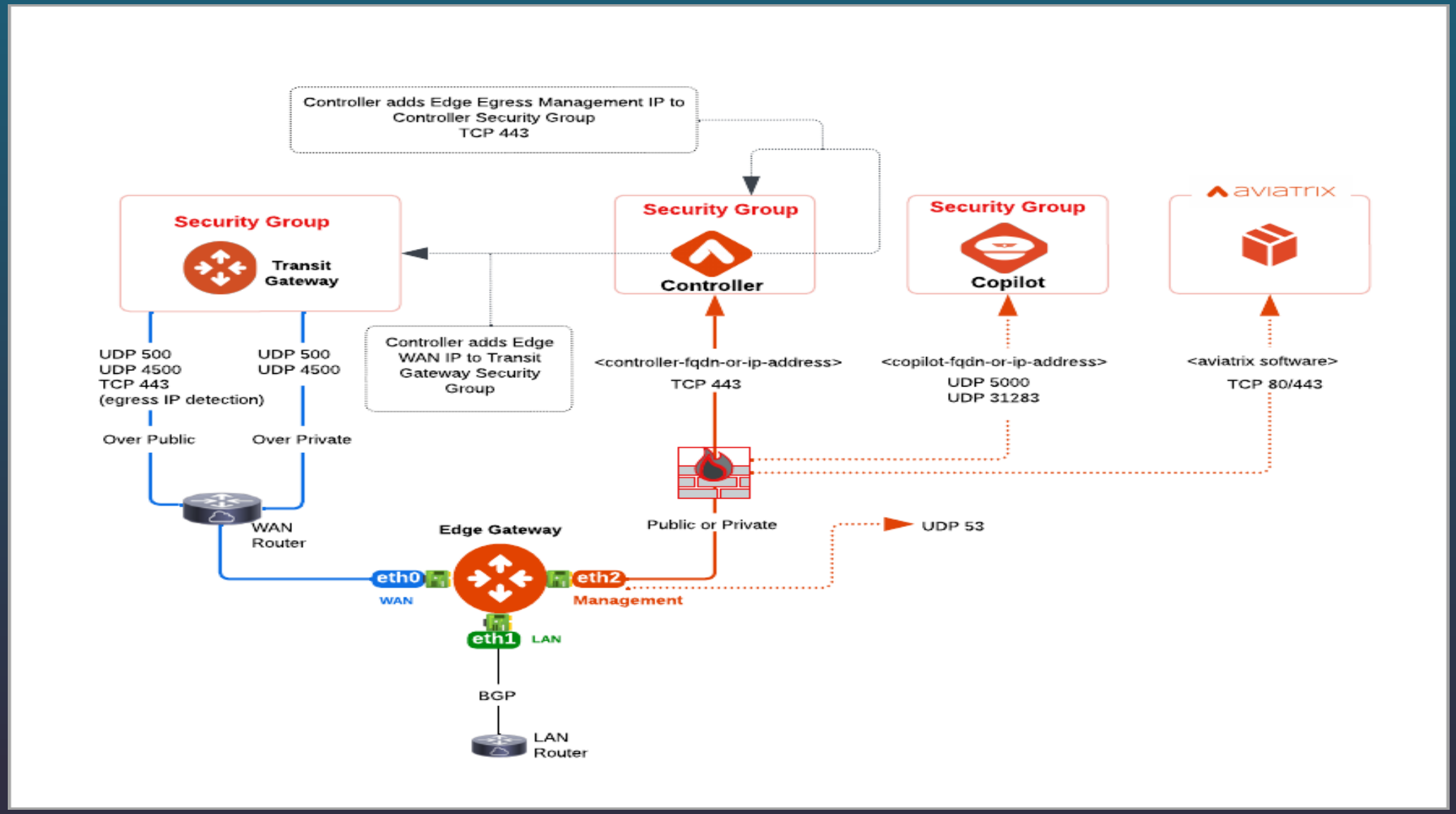


Transitive Routing

- 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

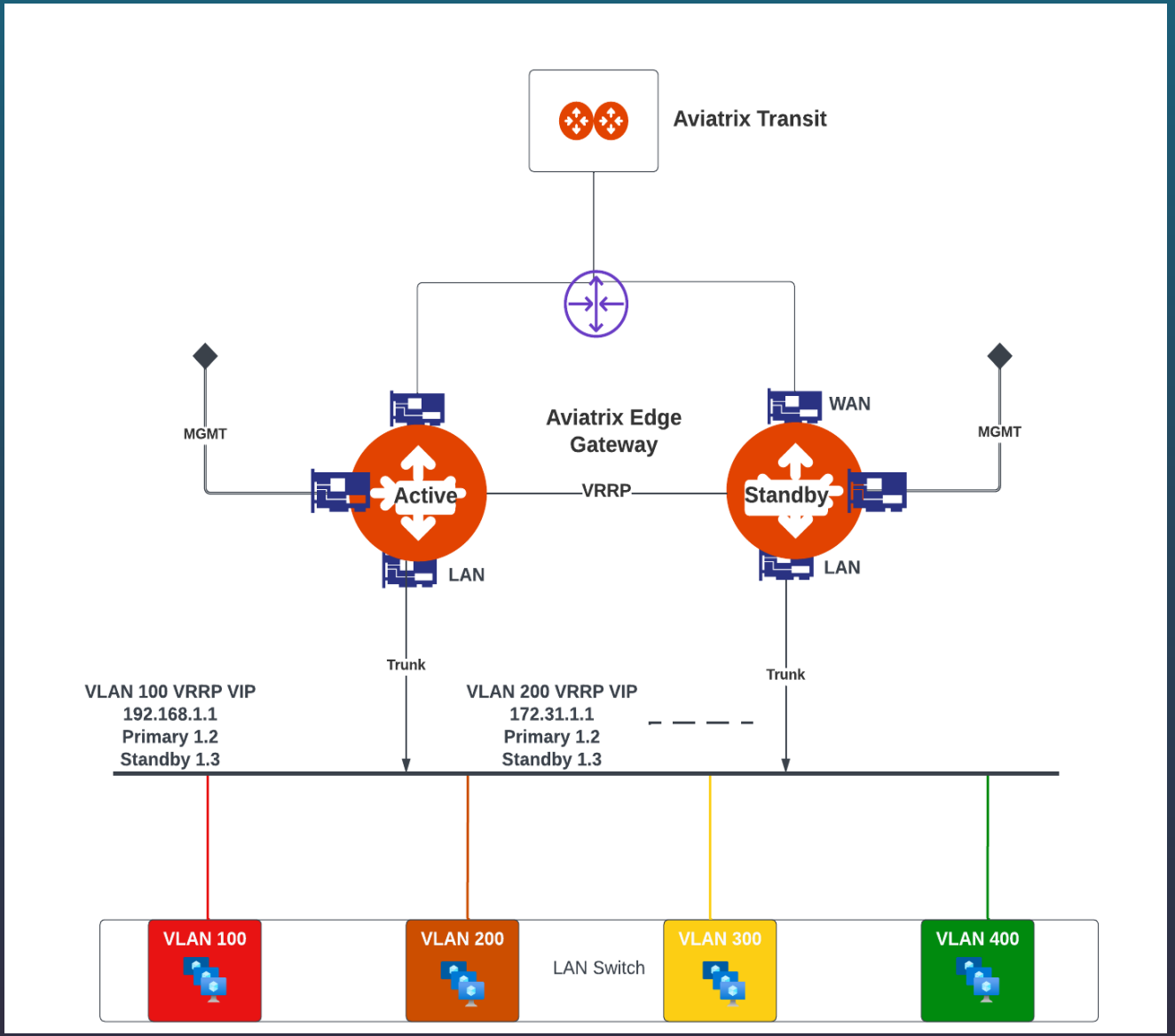


Aviatrix Edge as Spoke - VLAN and VRRP Support

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

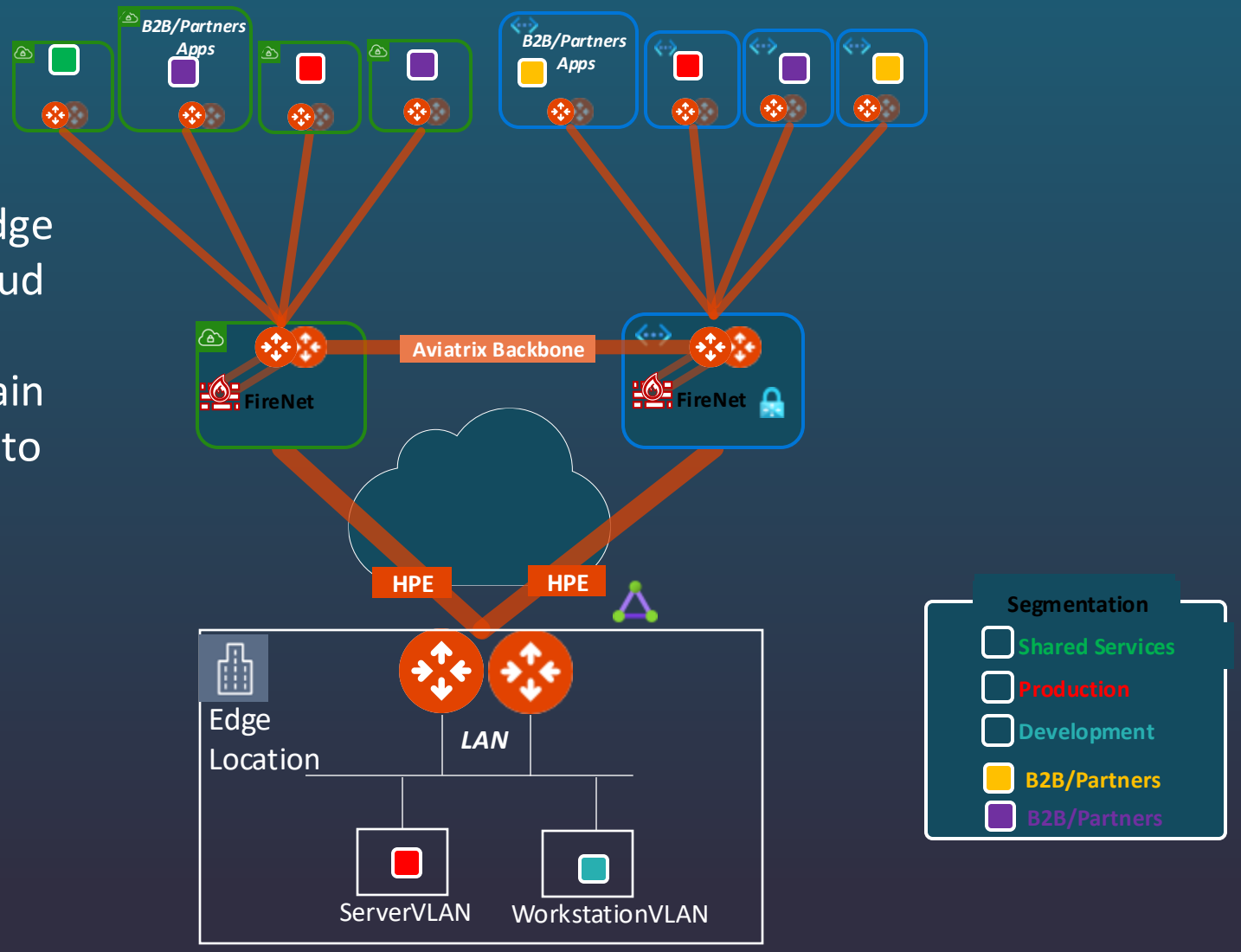
- VLAN support
  - Edge GW can support multiple VLANs on LAN side.
  - Edge as default GW for VLANs CIDRs
  - VLAN range supported: 2-4092

- VRRP support on LAN side:
  - VRRP HA on LAN side – A/S mode
  - Primary GW is active for all VLANs



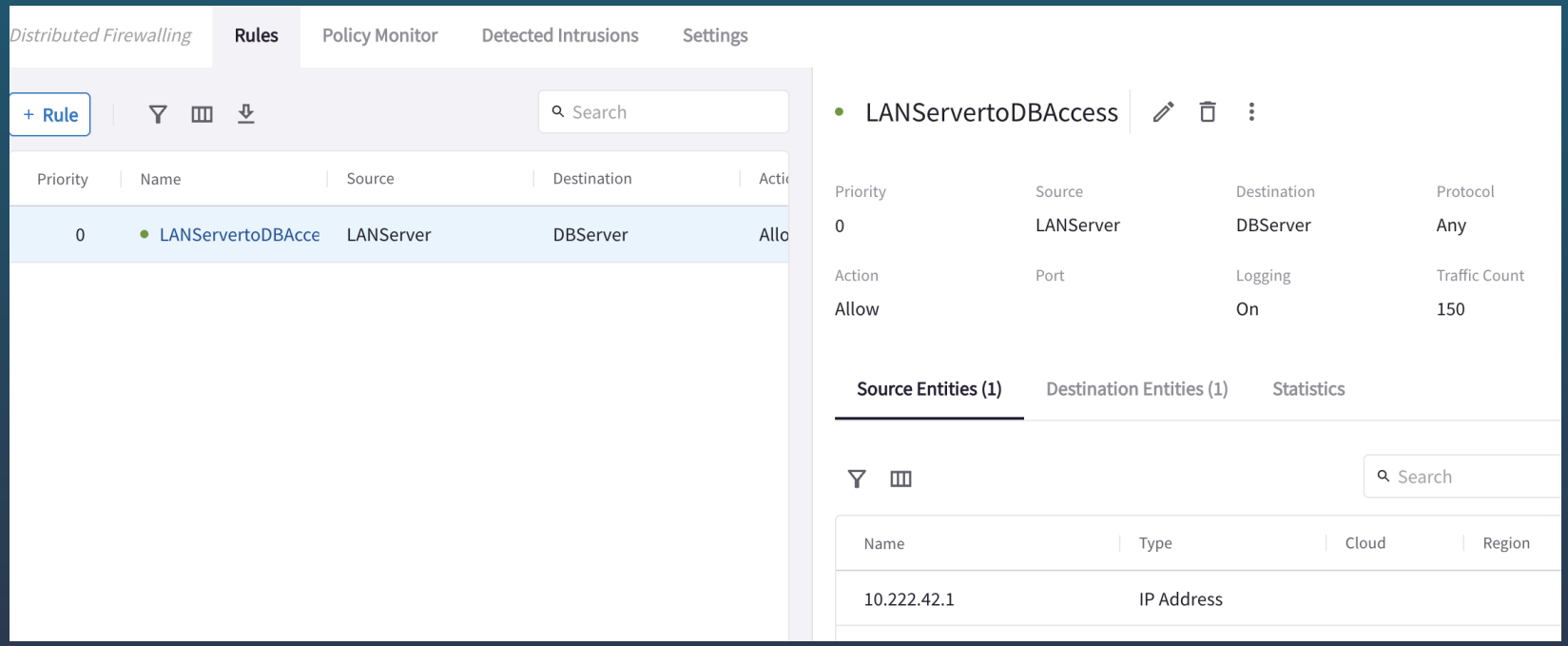
Aviatrix Edge as Spoke - VLAN Network Domains

- 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

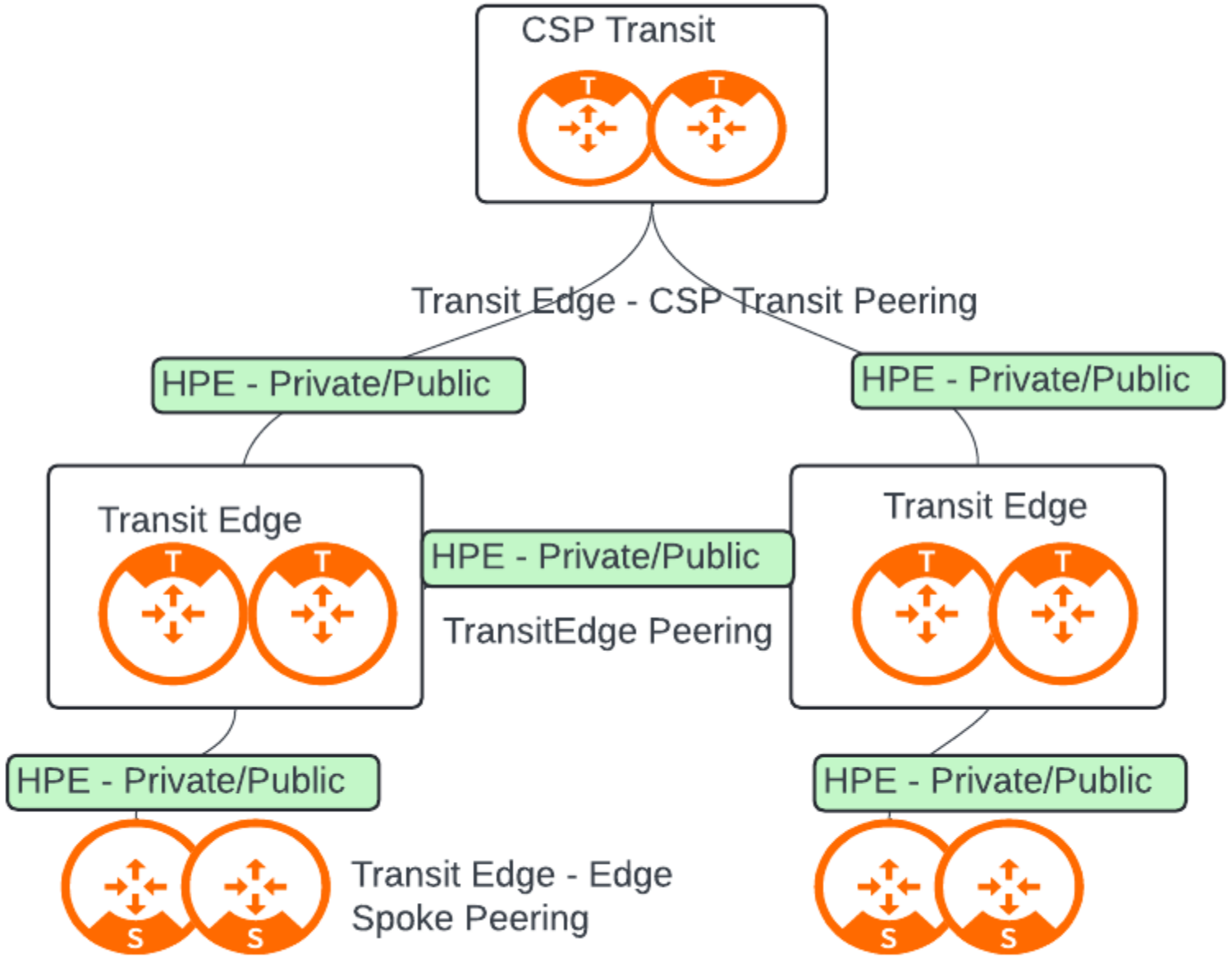


Central Intent Policy → Distributed Enforcement

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



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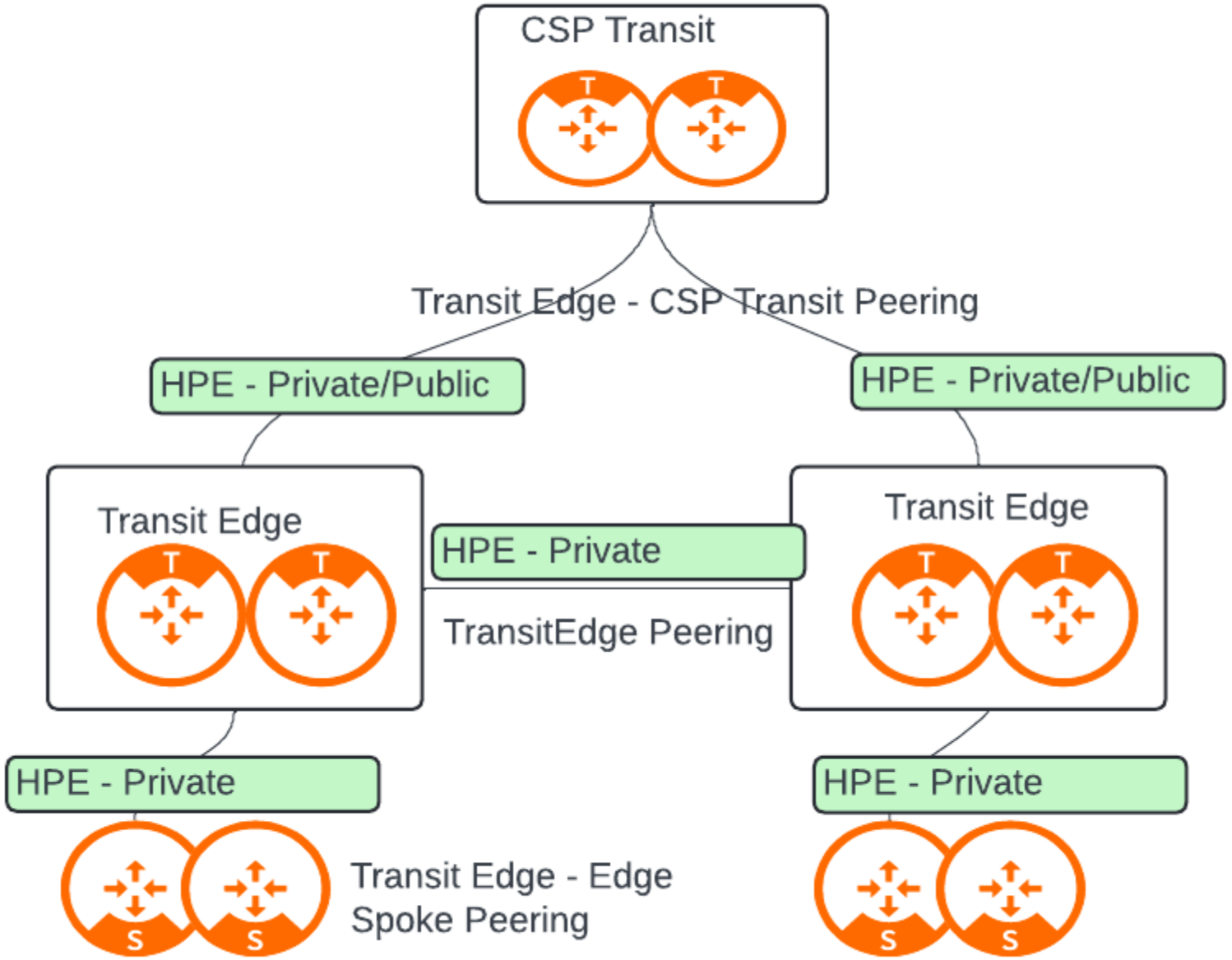
Transit Edge – Peering

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

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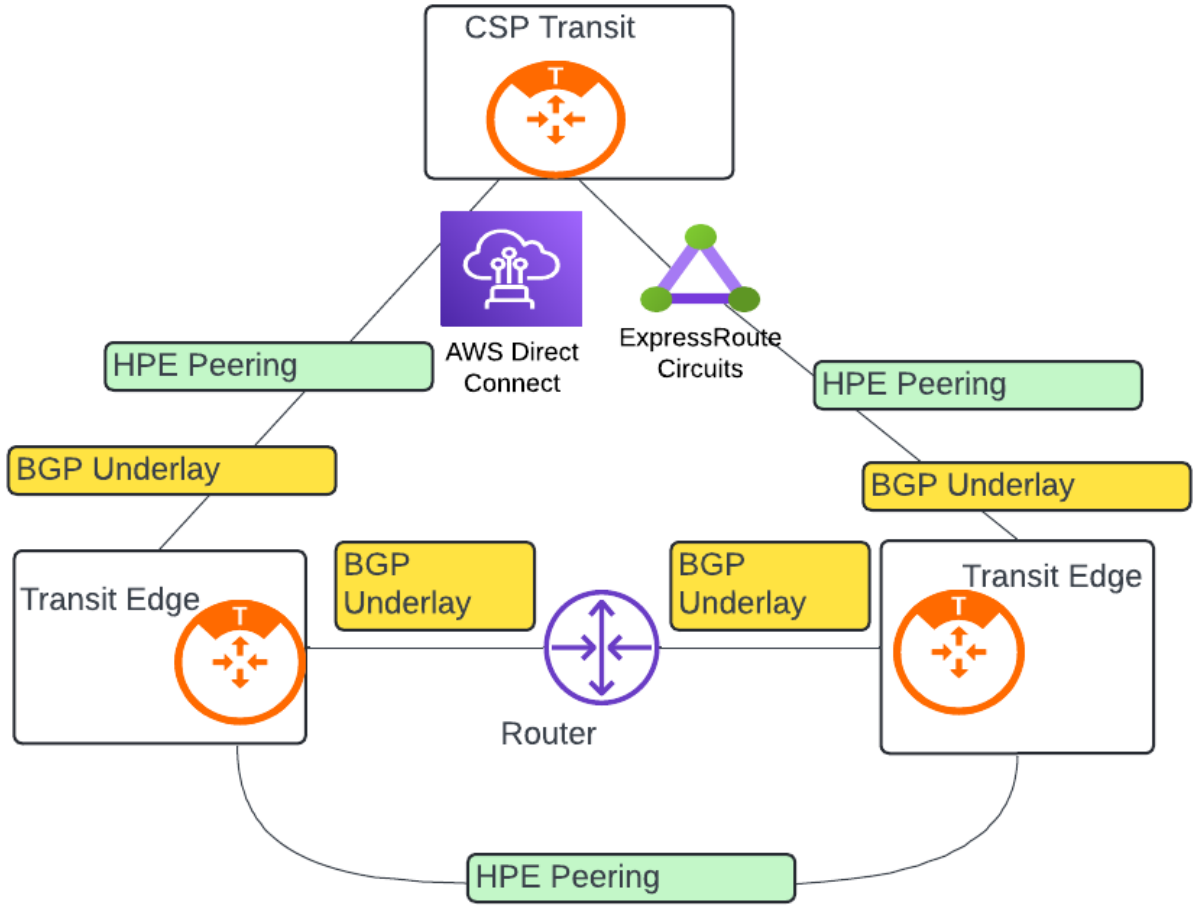
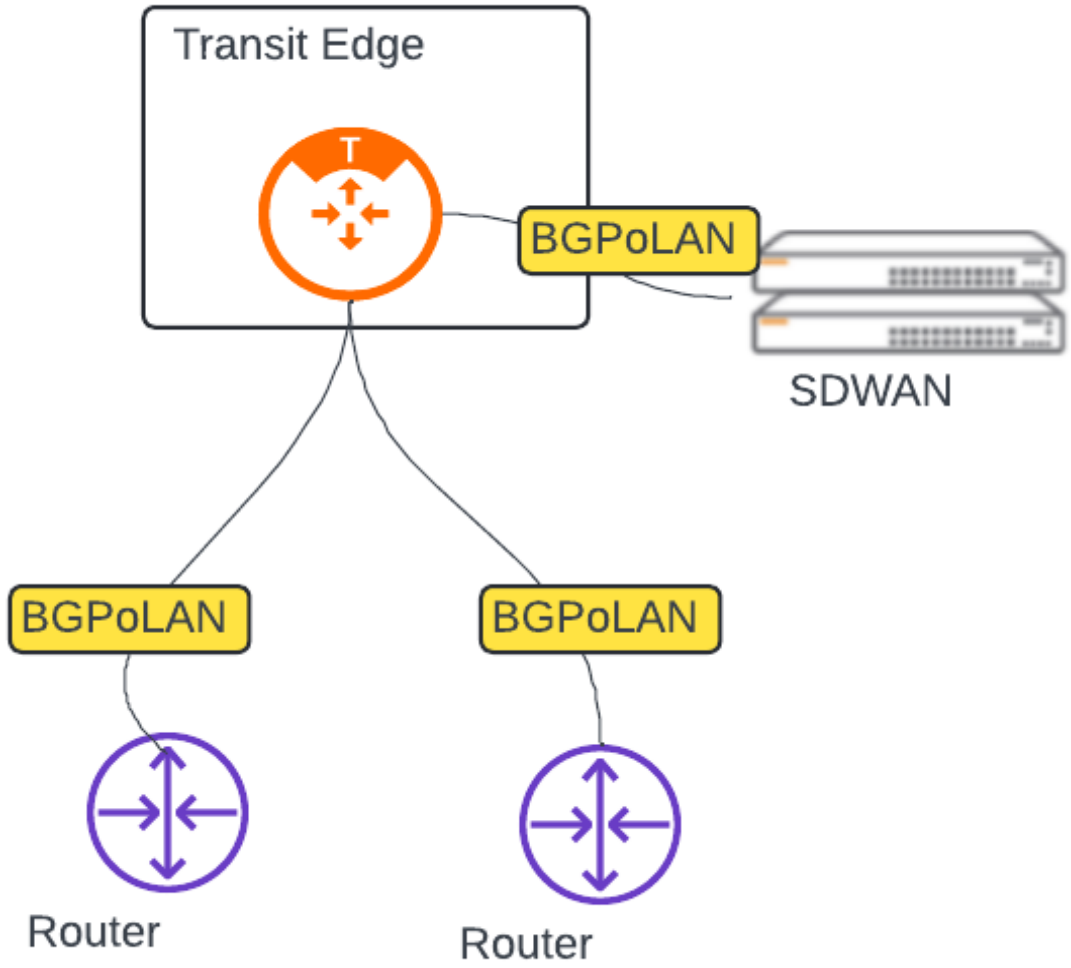
Transit Edge- BGP Underlay

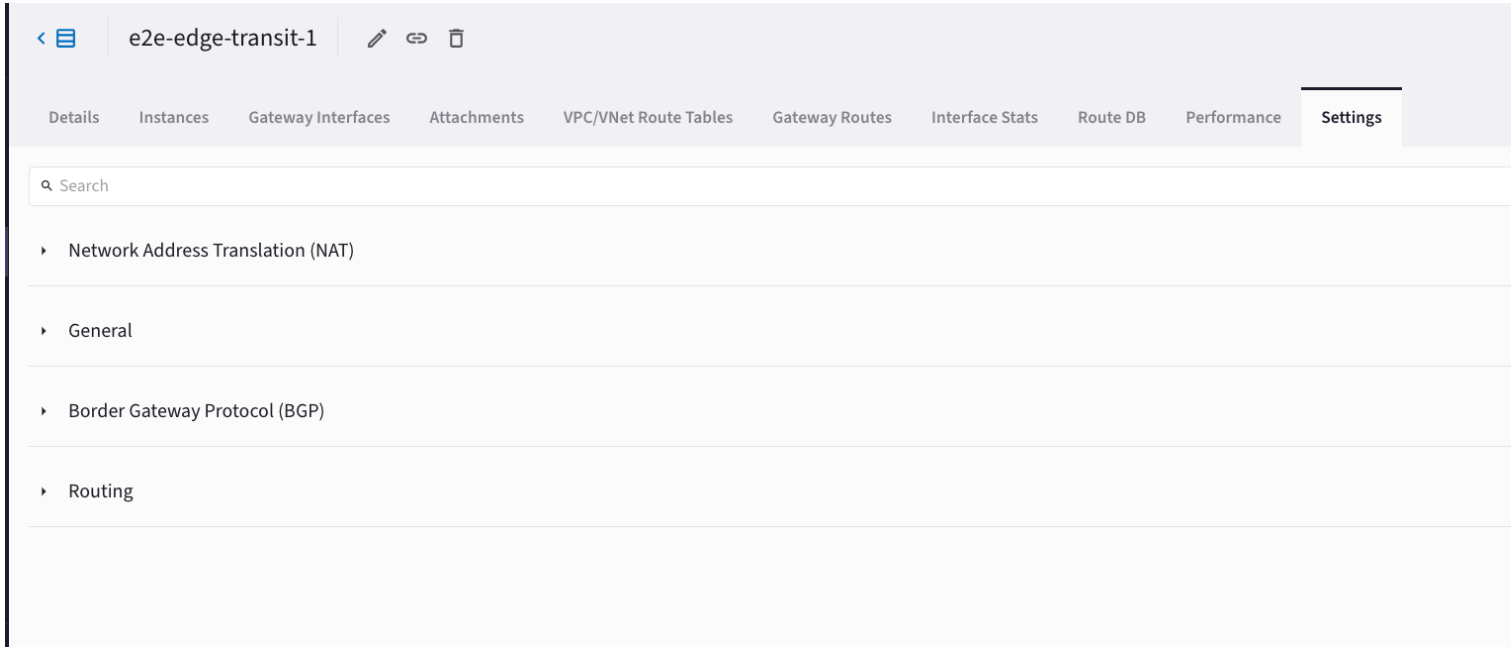
- BGP underlay to private CSP circuits (DX, ER)
- BGP underlay to DC router



Transit Edge- BGPoLAN

- BGPoLAN to DC routers
- BGPoLAN to SDWAN



Transit Edge

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