

# Aviatrix Edge

On  
Equinix NE/ Megaport MVE



# Rise of Hybrid, multi-cloud Why Now?

The rise of hybrid, multi-cloud strategies across industries demands:

- **End-to-End encryption** for data in transit and global scaling
- **Lower latency** and predictable performance
- **Resiliency and Operational efficiency** in these environments.
- Hybrid and multi-cloud environments are moving toward **automated, integrated** solutions to meet these demands.

# Edge – Platform and Features

<https://fabric.equinix.com/ne/new-virtual-device>

**Device Configuration File**  
This file usually includes the license, boot up configuration, Controller IP Address, and encryption key.  
  
Upload .txt files under 500 KB

**Device Resources**  
Select the appropriate resource below. [Learn More](#)

2 Cores, 4 GB Memory

4 Cores, 8 GB Memory

8 Cores, 16 GB Memory

16 Cores, 32 GB Memory

- **Equinix Network Edge(NE)**  
Aviatrix Edge (2-16 core VMs)
- Transit Edge:
  - 9 WAN Interfaces (max)
  - 1 Mgmt Interface
- Spoke Edge
  - 8 WAN Interfaces (max)
  - 1 Mgmt Interface
  - 1 Lan Interface



<https://portal.megaport.com/mve>

\* MVE Name

TransitEdge

\* Size

Select

Service Level Reference ?

MVE 2/8  
MVE 4/16  
MVE 8/32  
MVE 12/48

\* Cloud-init File

Virtual Interfaces (vNICs)

0

eth0

1

eth1

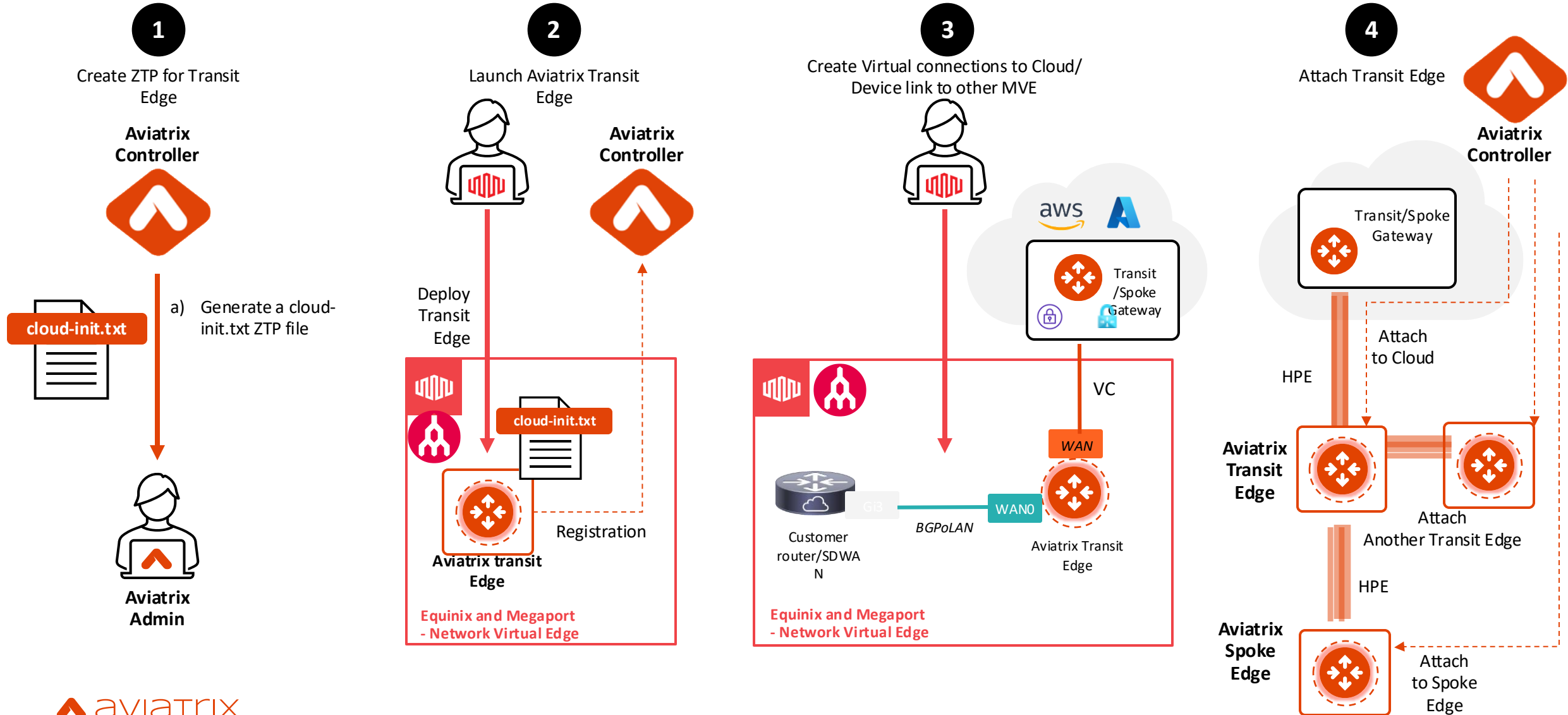
2

eth2

- **Megaport Virtual Edge (MVE)**  
Aviatrix edge (2-12 Core VMs)
- Transit Edge:
  - 4 WAN Interfaces (max)
  - 1 Mgmt Interface
- Spoke Edge
  - 3 WAN Interfaces (max)
  - 1 Mgmt Interface
  - 1 Lan Interface

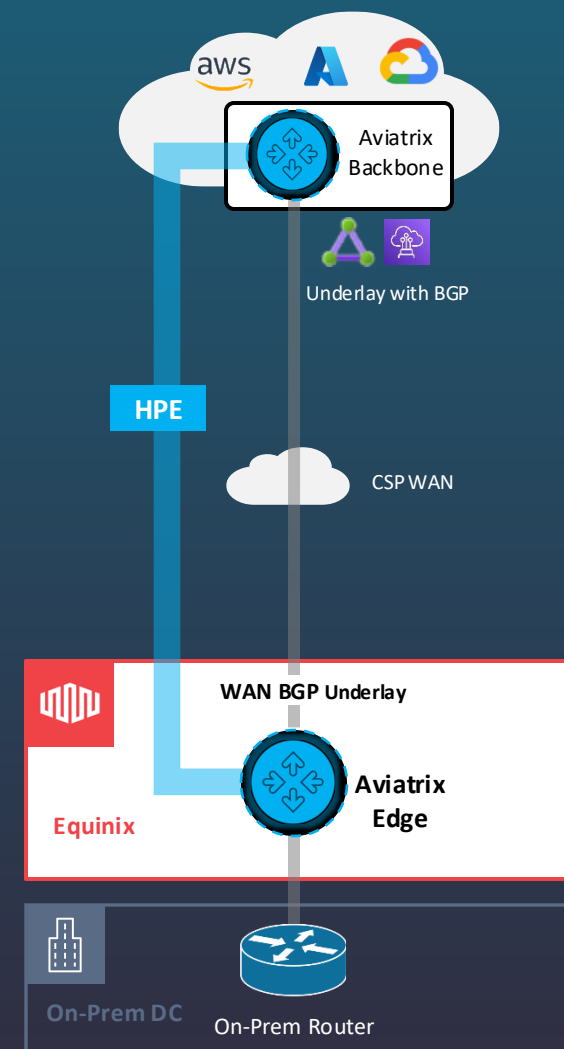
\*Megaport MVE supports 5 VNICs today

# Aviatrix Transit Edge - Equinix and Megaport Deployment Workflow



# Aviatrix Edge on MidMile Providers (Equinix/Megaport) Additional Capabilities

- BGP underlay
- Multi-WAN interface





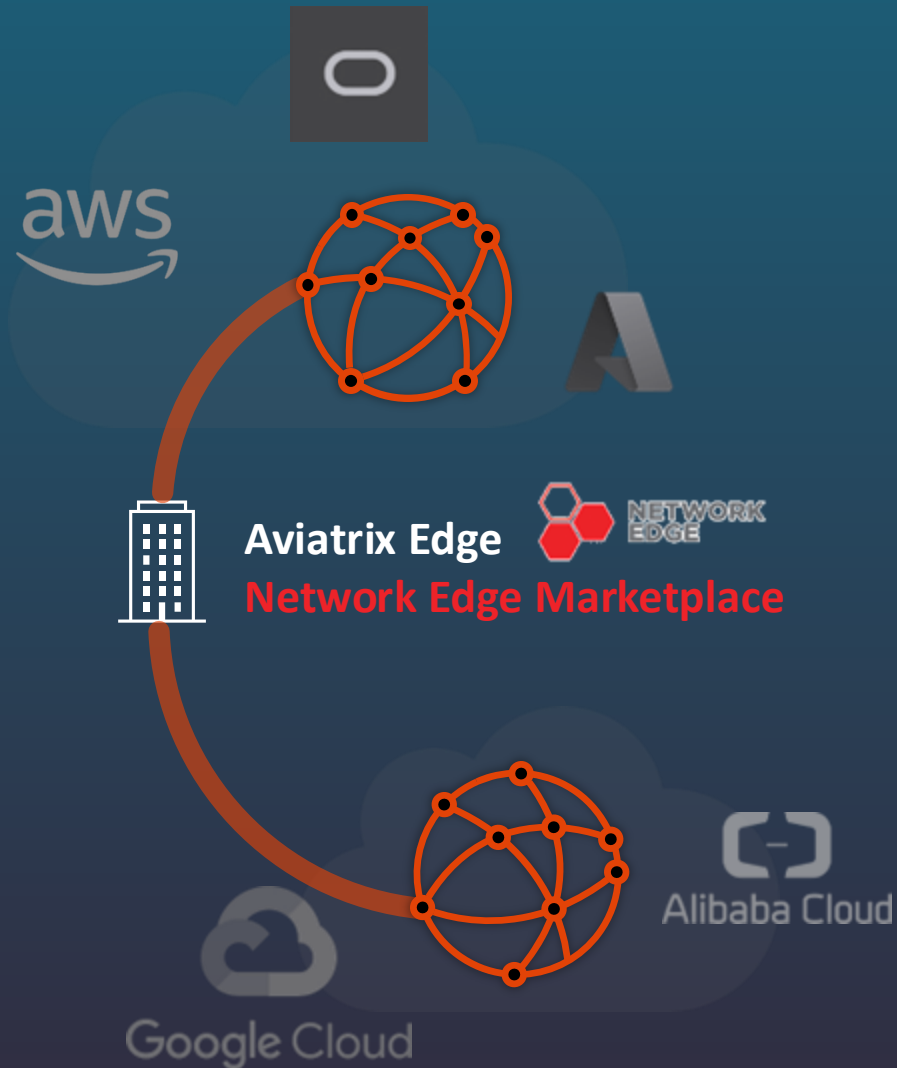
## Aviatrix Edge on **Network Edge**

TM

High Performance Encryption  
for Multicloud Connectivity



# Aviatrix Edge on Network Edge



## What is Aviatrix Edge on Network Edge?

- The Highest Performance Encrypted Connection to Cloud
- Extends the Aviatrix Intelligent Cloud Networking and Security platform to the Equinix Fabric
- Simplifies highly distributed deployments through Equinix cloud adjacent locations.
- Designed for multicloud and hybrid connectivity that provides a consistent architecture across these environments.

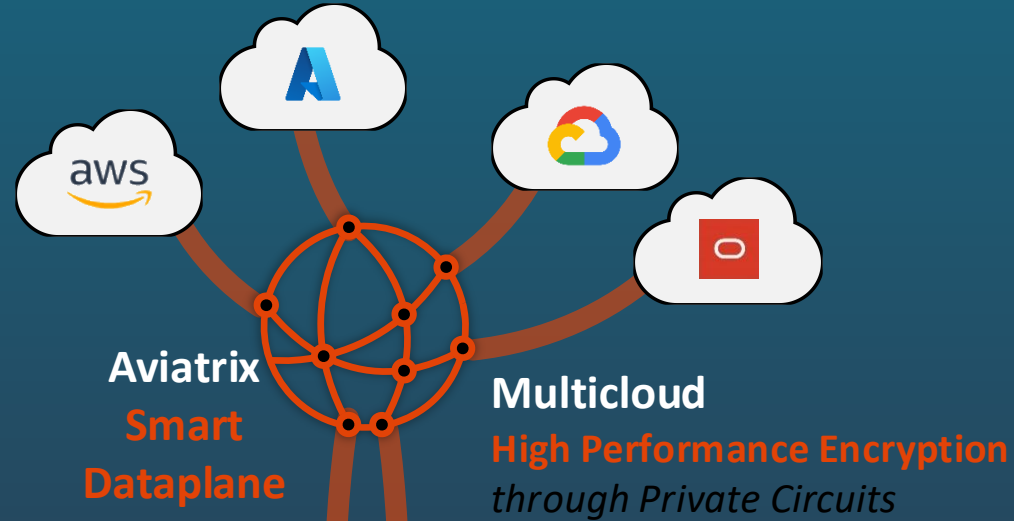
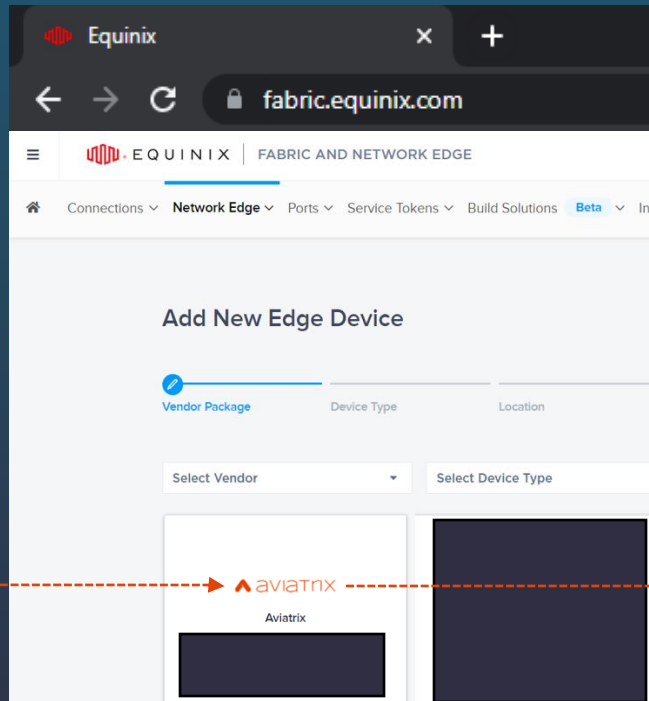
## Why Do Customers Deploy?

- Simplifies deployment of private multicloud connectivity leveraging the Equinix infrastructure.
- Multicloud connectivity over the Internet for backup.
- Accelerates enterprise cloud adoption by removing hardware requirements
- Edge connectivity that is secure, easily deployable, and reliable with visibility and control.
- A seamless operational model and consistent architecture across network edge and multicloud.
- Complete network traffic visibility and granular control across hybrid cloud environments.
- Support for overlapping IP addresses leveraging NAT

## Requirements?

- Aviatrix Edge launched on Network Edge Marketplace
- Aviatrix Transit Gateway in Cloud – software launched from cloud marketplace

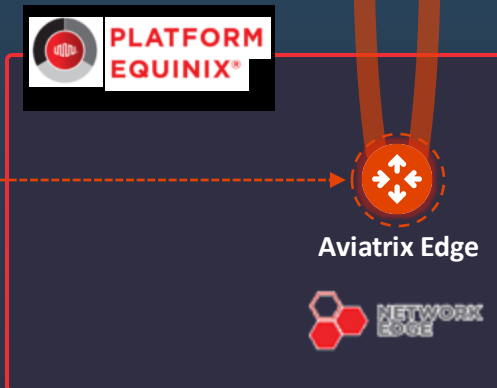
# Aviatrix Edge on Network Edge Marketplace



## How?

Standard IPsec encryption is **limited** to a single processor core and a single tunnel.

Aviatrix Edge aggregates multiple cores and multiple tunnels to form an ECMP with **High Performance Encryption** between Aviatrix Edge in Equinix to Aviatrix Transit Gateways in the Clouds over private circuits (e.g., AWS Direct Connect, Azure Express Route or GCP Cloud Interconnect)





# Enabling additional WAN interface.

Create Spoke Gateway: Interface Configuration

Supported Interface Configurations: 1-8 WANs, 1 LAN and 1 MGMT.

STEP 1 Gateway Configuration

STEP 2 Interface Configuration

WAN 0

Interface Labels

BGP Off

Primary Gateway

Interface CIDR

Default Gateway IP

Public IP Discover

WAN 1

Interface Labels

BGP On

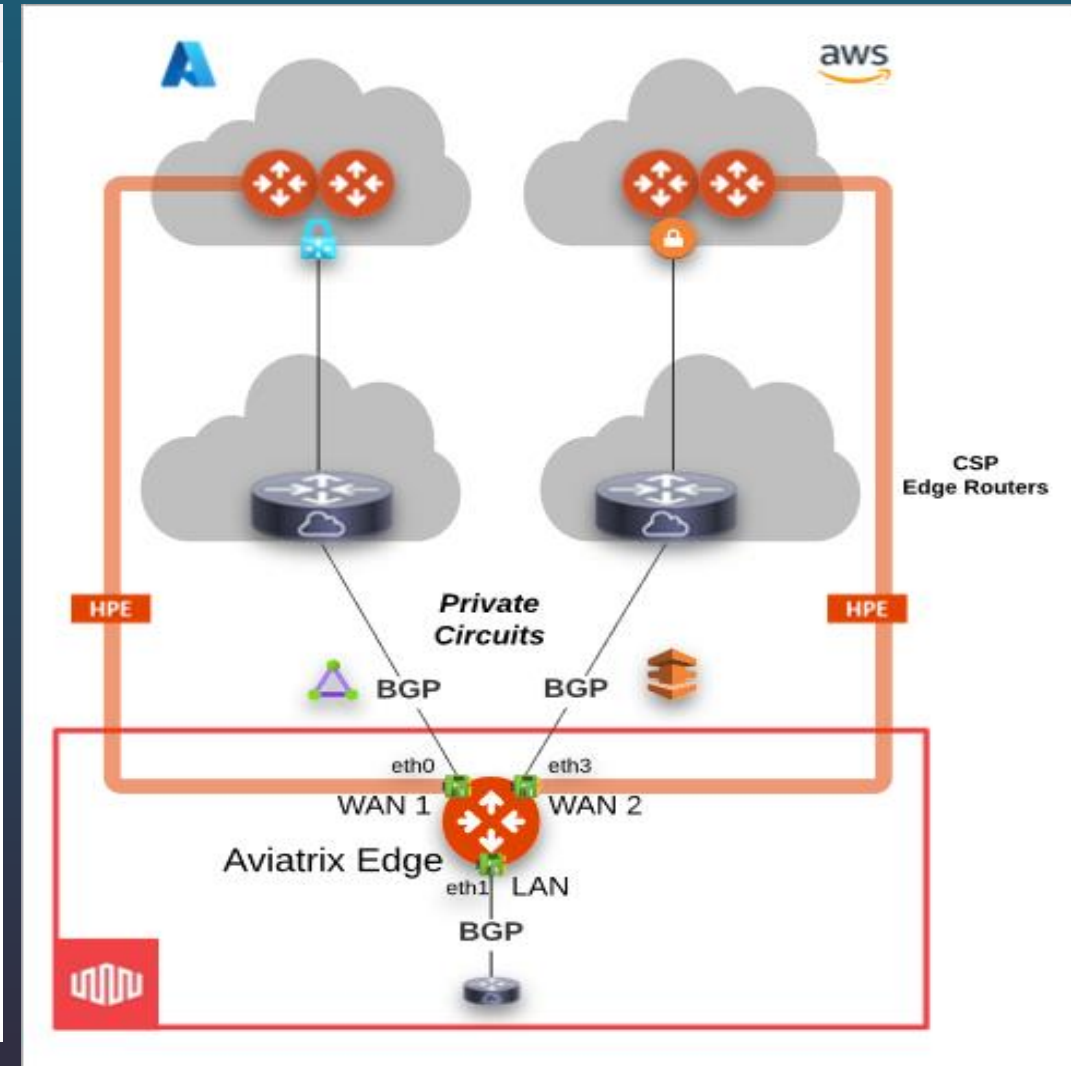
Link-Local Underlay CIDR

Default Gateway IP

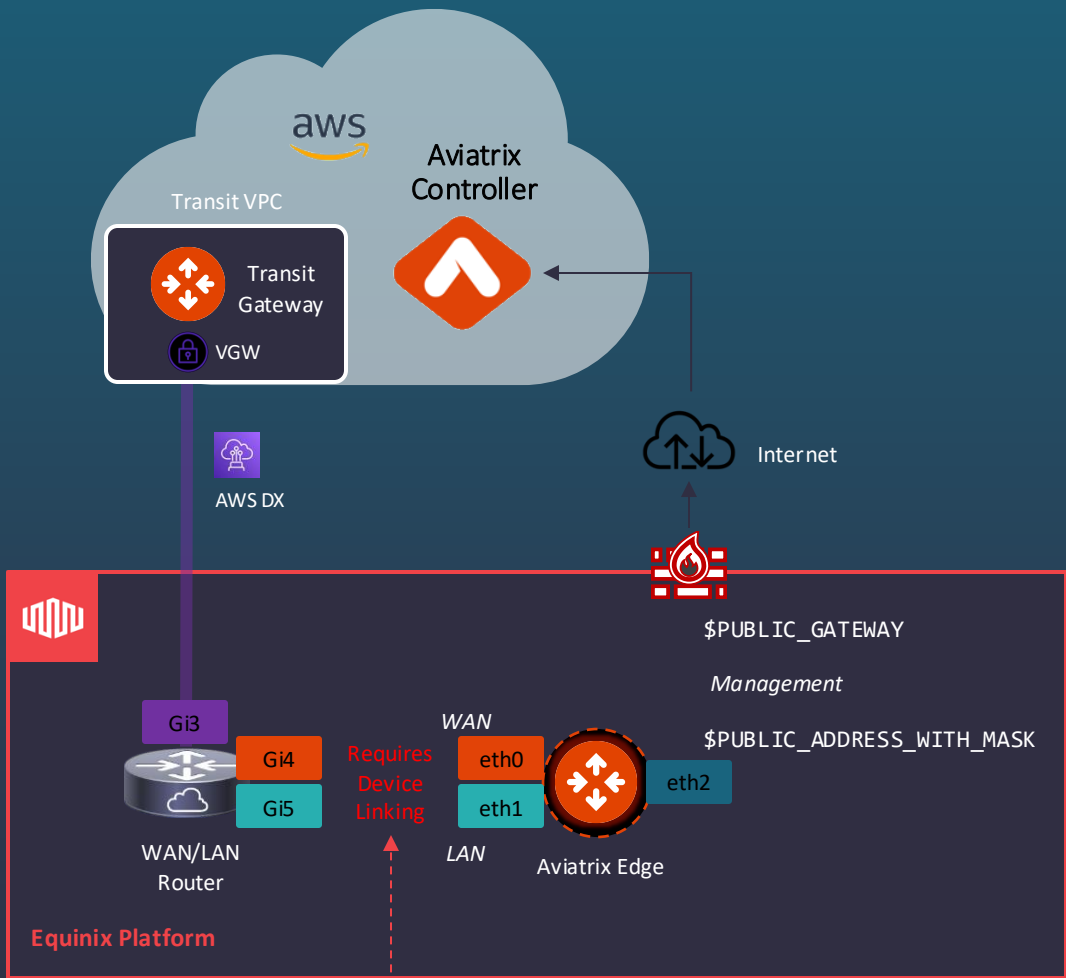
Public IP Discover

BGP Local ASN Remote ASN Local LAN IP Remote LAN IP Password

< Back Cancel Done



# Equinix Device Linking



Device Linking Table

| Device             | Interface        | Device        | Interface |
|--------------------|------------------|---------------|-----------|
| Third-party router | GigabitEthernet4 | Aviatrix Edge | eth0      |
| Third-party router | GigabitEthernet5 | Aviatrix Edge | eth1      |



Device Link

[Add New Device Link](#) ☒ Display only device link groups that this device is attached to.

Select from your provisioned devices and provide a unique name for the device link. It may take up to 10 minutes for the devices to be linked.



**Megaport**

## AviaTrix Edge on Megaport Virtual Edge (MVE)

High Performance Encryption  
for Multicloud Connectivity

# Aviatrix Edge on Megaport Virtual Edge (MVE)

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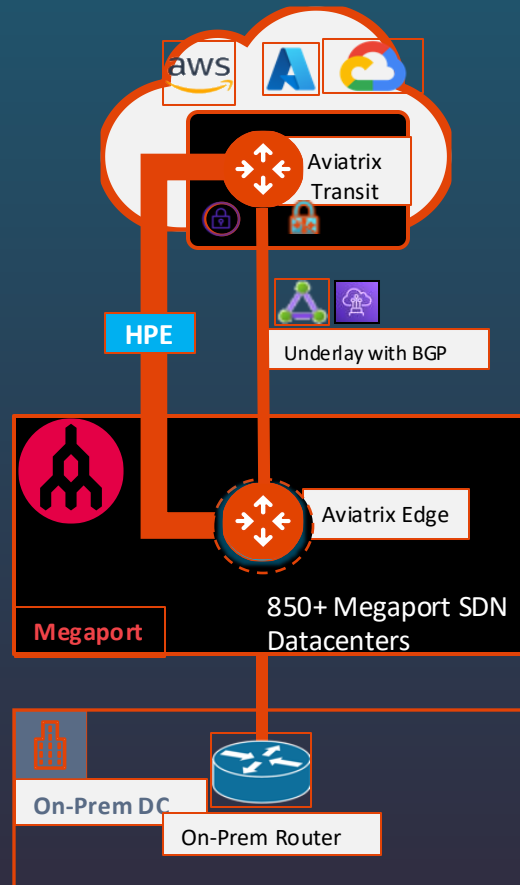
## Key Benefits

- A cloud-like experience for hybrid cloud environments across multicloud environments that provides a consistent, high performance, secure, and resilient architecture.
- On-demand provisioning of hybrid cloud edge and private connections leveraging Megaport fabric.
- Complete network traffic visibility and granular control across hybrid cloud environments.
- Support for overlapping IP addresses leveraging NAT.
- Segmentation capabilities across hybrid and multicloud environments to support workload isolation and security requirement with cloud orchestrated policies.

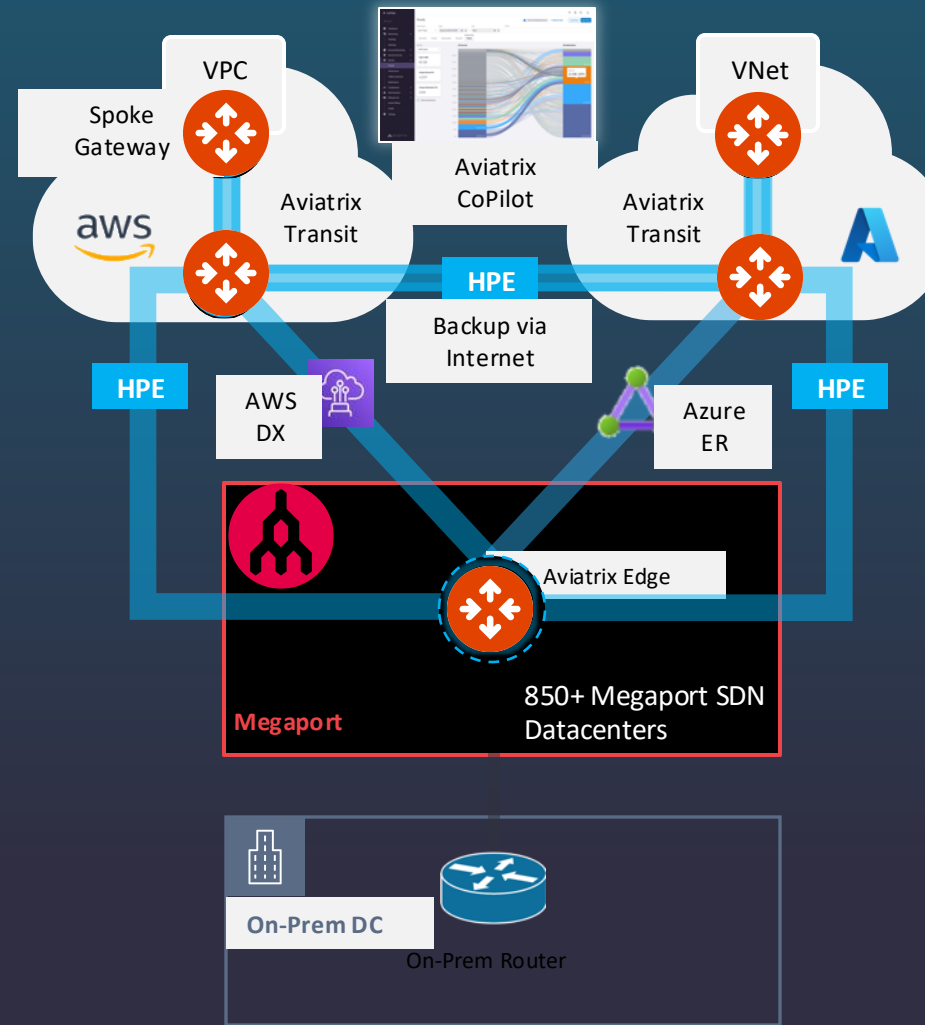
## Aviatrix Secure Edge in MVE – 2vCPU, 4 vCPU and 8 vCPU VM offering . No physical hardware

## Build Private line rate encrypted on-prem to cloud and cloud-cloud network with Aviatrix Edge in MVE – 50Mbps to 10G

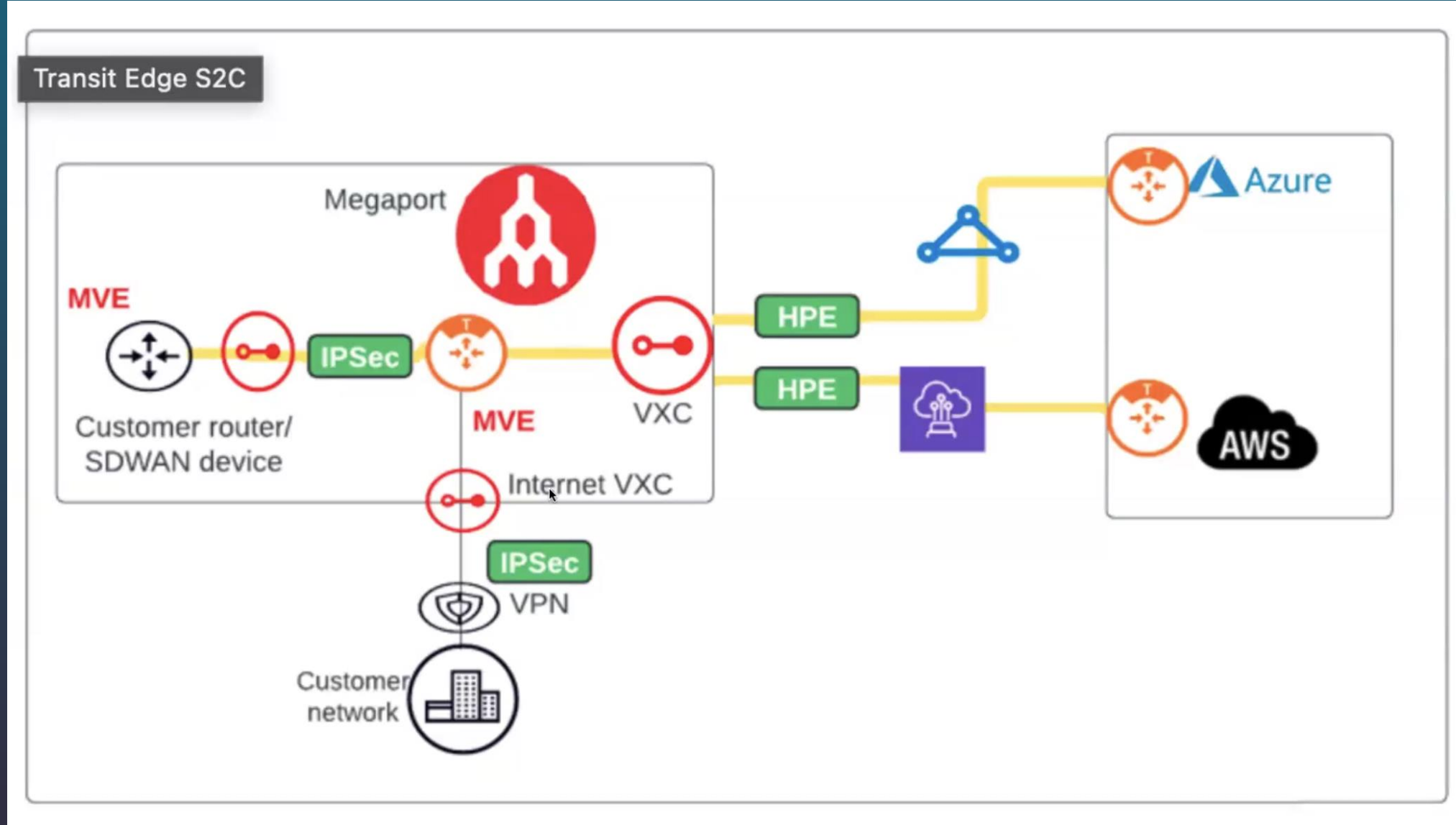
## Hybrid Connectivity with Option for End-to-End Encryption



## Hybrid, Multi-Cloud Connectivity



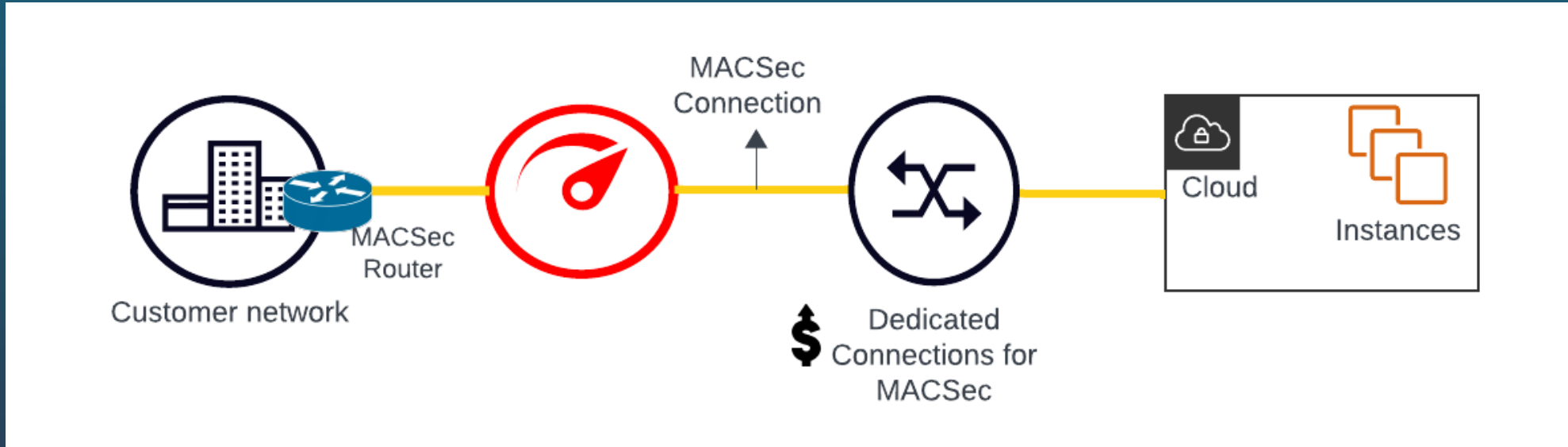
# Aviatrix Transit Edge in Megaport MVE



# MegaPort Limitations

- MegaPort supports max 5 Interfaces.
- Number of vNICs can't be changed after MVE is launched.
- Point to point device links.
  - Does not support Active Mesh peering or Active Mesh Site-2-Cloud without an additional router or MCR
  - Does not support on EaS (Edge as Spoke) VRRP and Vlan features.

# MACSec to Cloud

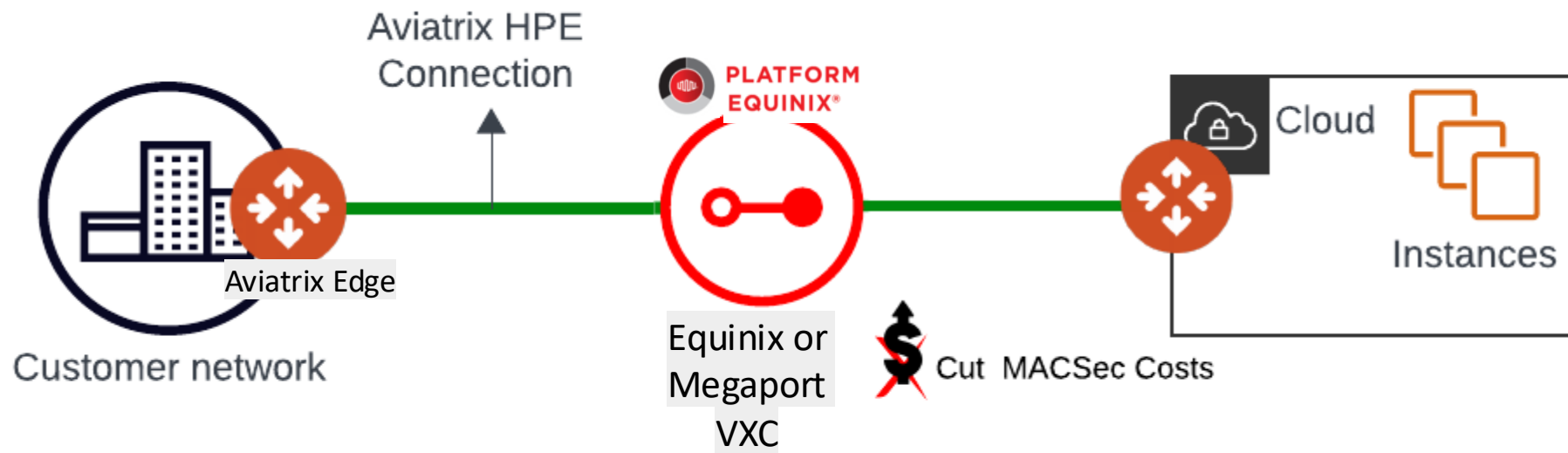


Requires (in addition to previous slide):

- 1) MACSec only supported by Cloud providers on dedicated private ports, which are 10x more expensive for 1G circuit and 2x for 10G circuit (Azure)
- 2) Implementation time is high (cabinets, routers, cross connects – leads to multiple days if not months) vs hosted on-demand connections (in minutes)
- 3) Azure only support 10G and 100G Port speed for MACSec. Incremental is not possible



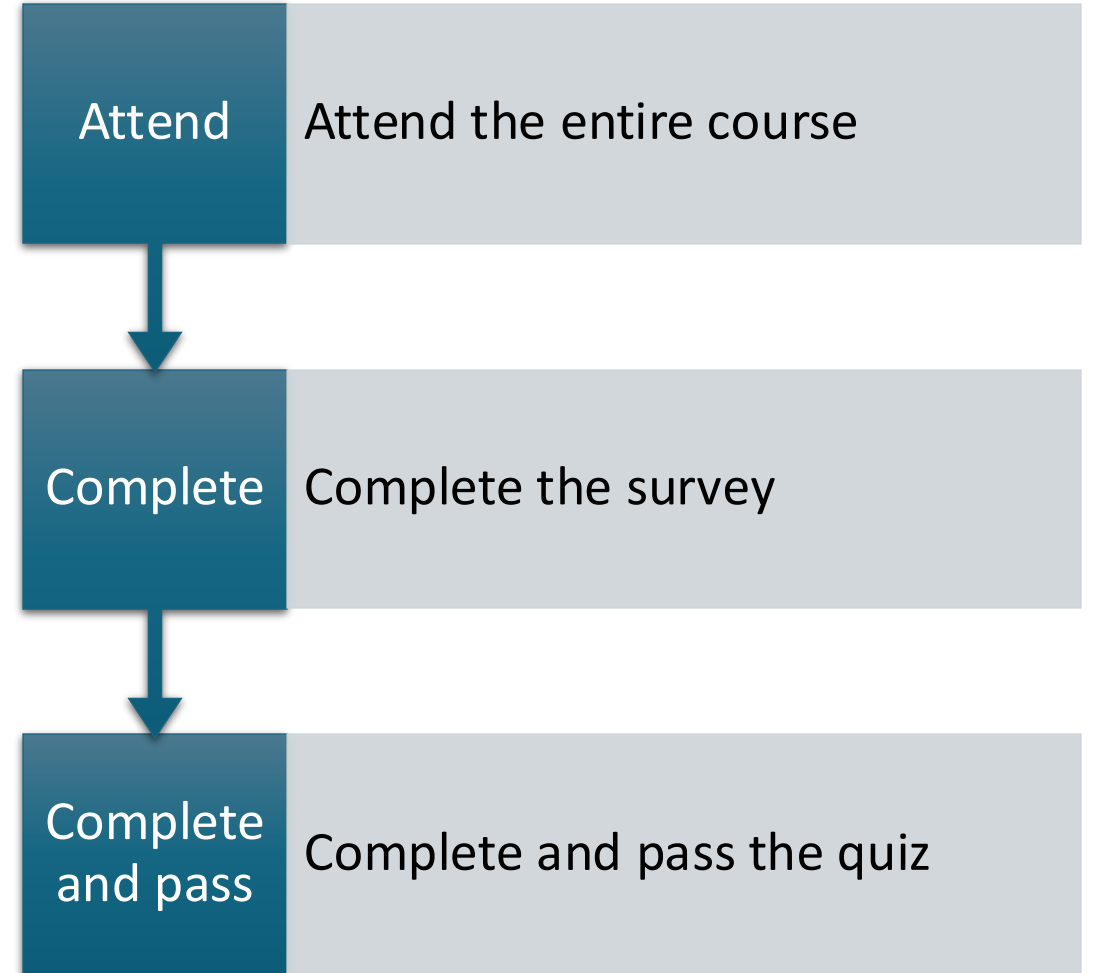
# Remove MACSec Configuration complexity and Significant cost savings



# ACE-Hybrid Cloud Certification Requirements

- Survey Link:

<https://pages.aviatrix.com/ace-hybrid-cloud-survey.html>





# Thank You!

For attending and completing  
the Survey



Aviatrix Certified Engineer (ACE)  
<https://aviatrix.com/ACE>



COMMUNITY  
<https://community.aviatrix.com>