

# 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.

test-EQXSVC-cloud-init.txt Remove it here.  
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

\* Size

Service Level Reference ?  
 MVE 2/8  
 MVE 4/16  
 MVE 8/32  
 MVE 12/48

\* Cloud-init File

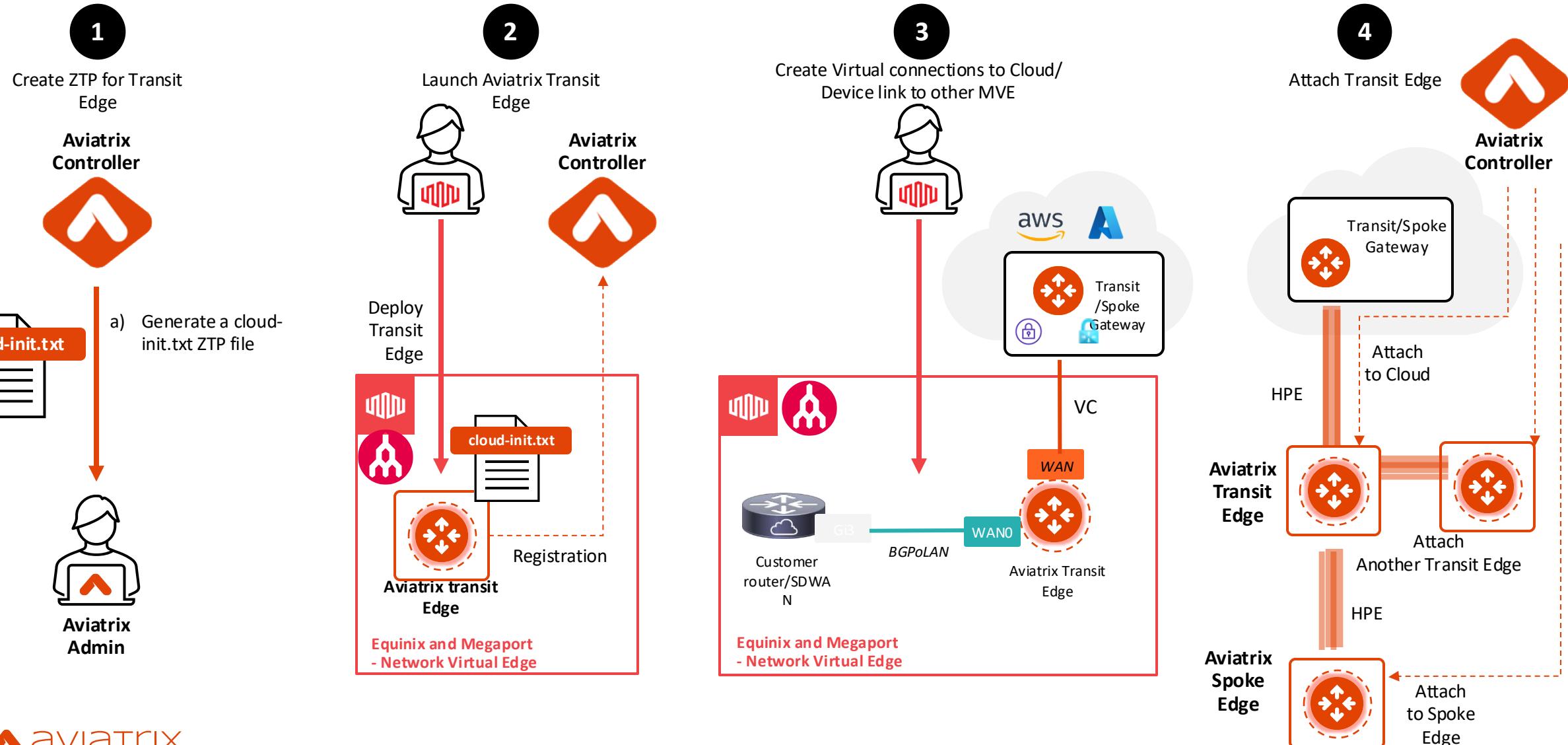
Virtual Interfaces (vNICs)  

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

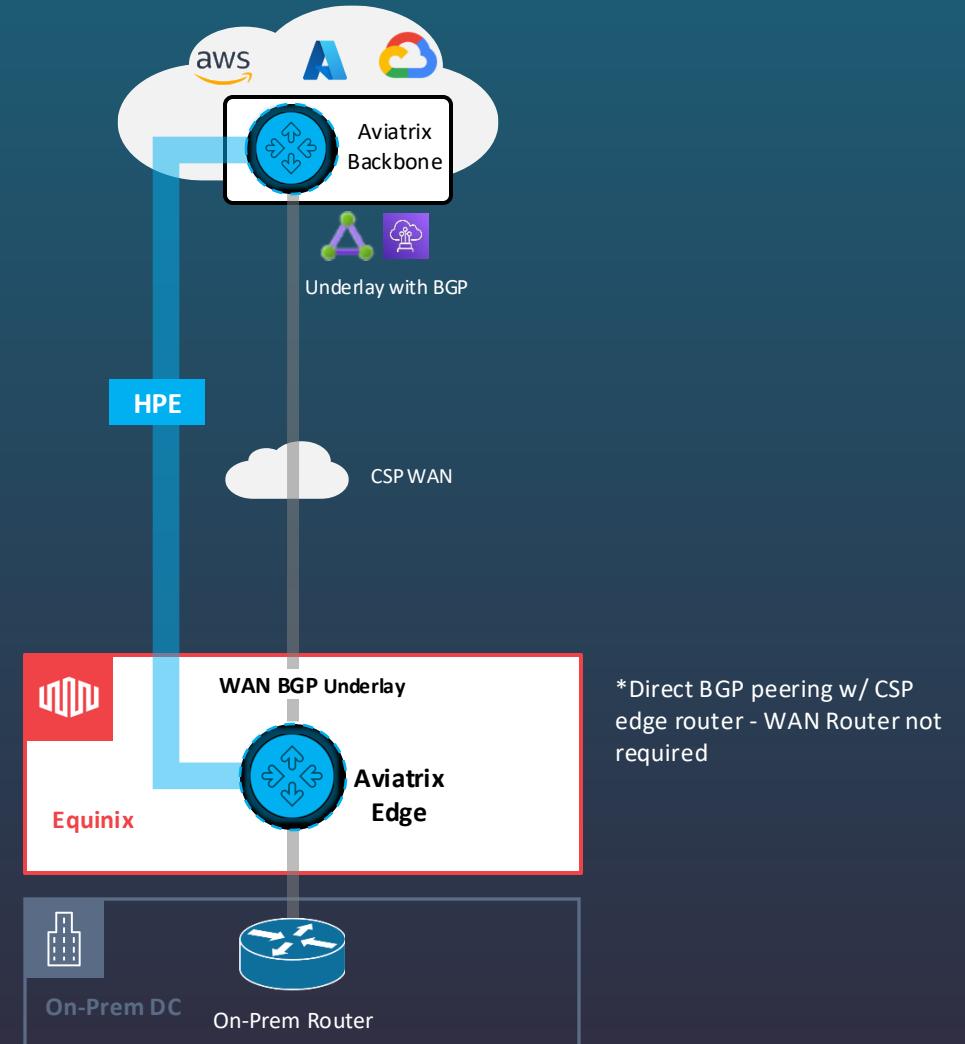
\*Megaport MVE supports 5 VNICs today

# Aviatrix Transit Edge - Equinix and Megaport Deployment Workflow



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

- BGP underlay
- Multi-WAN interface





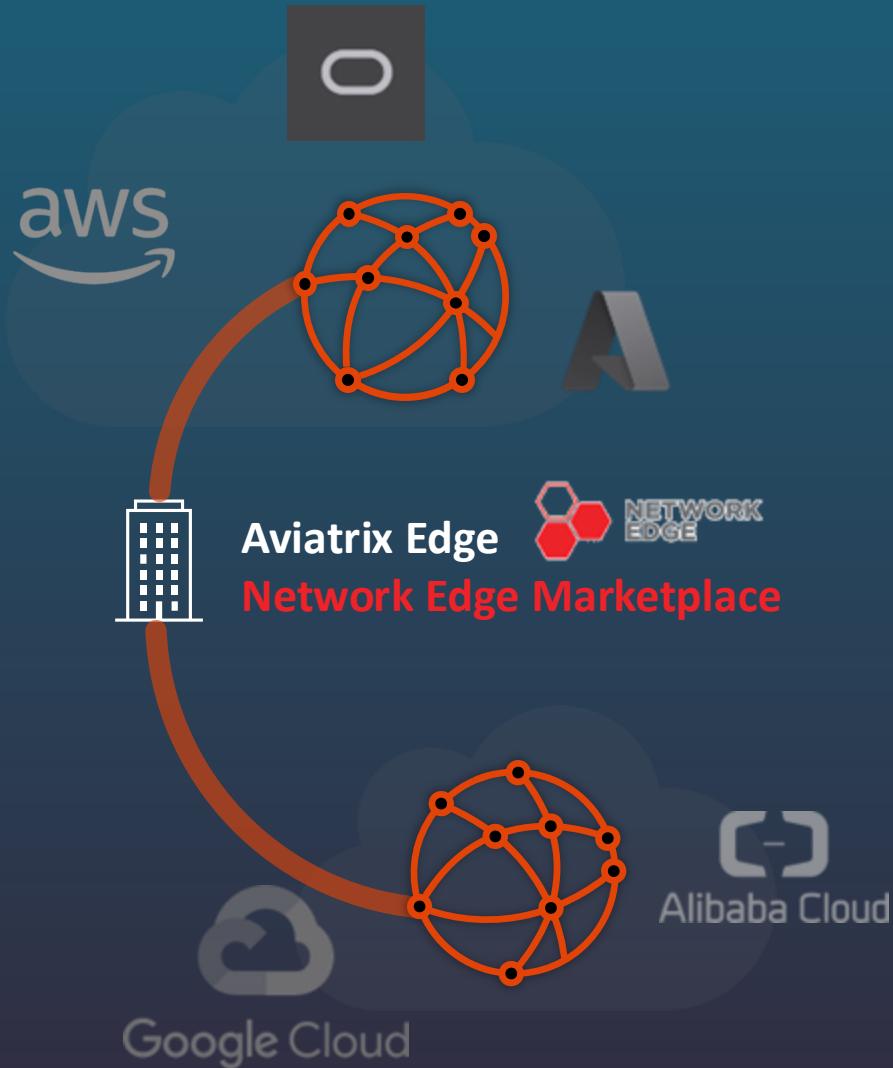
## Aviatrix Edge on **Network Edge**

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.

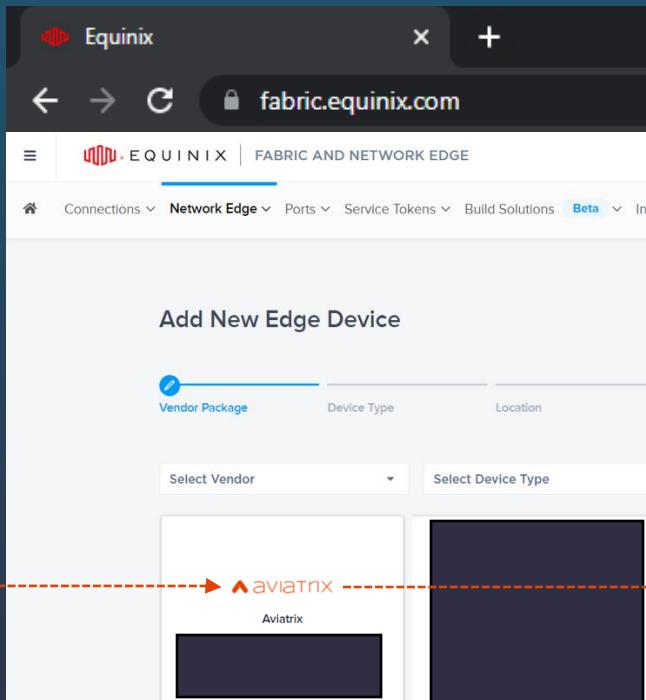
## Why Do Customers Deploy?

- 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

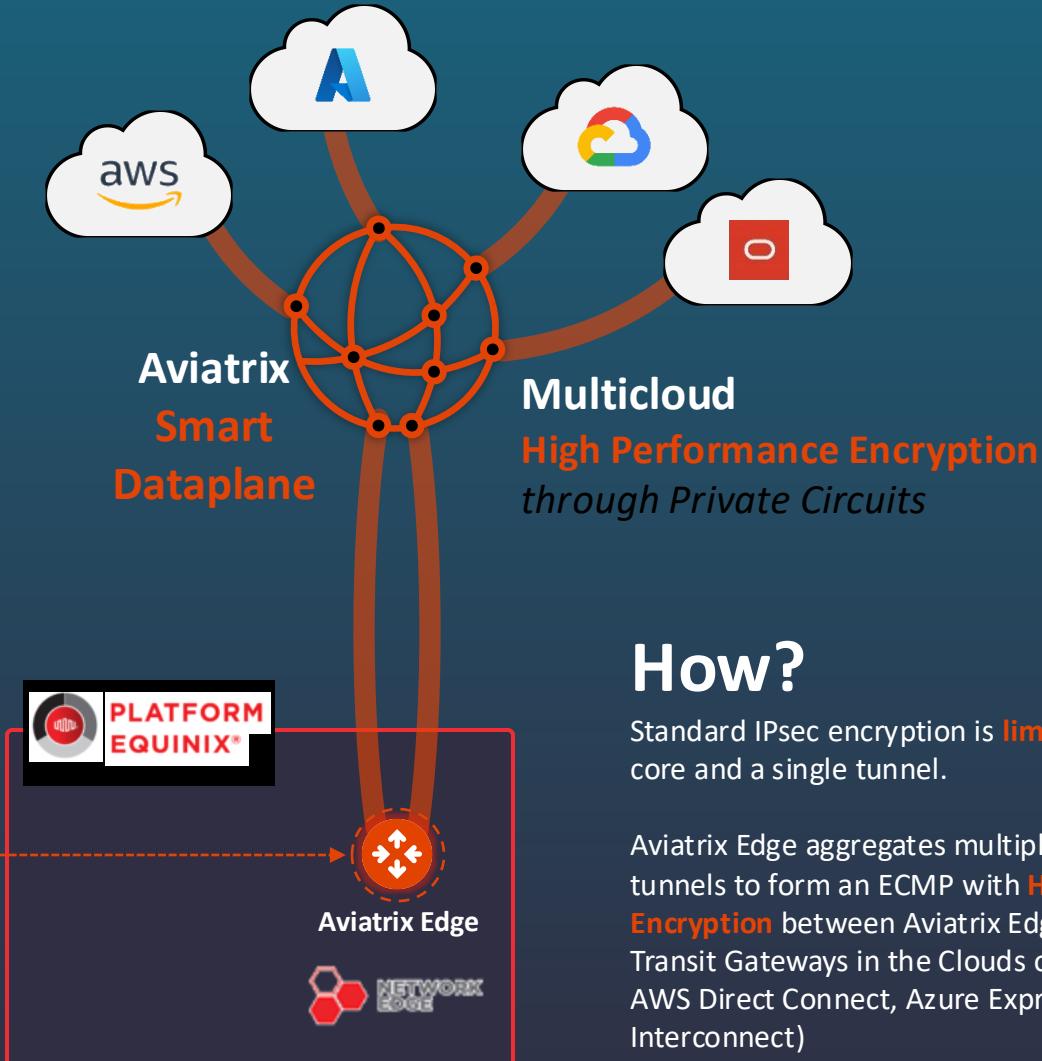
## Requirements?

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

# Aviatrix Edge on Network Edge Marketplace



The screenshot shows the Equinix Fabric interface with the URL [fabric.equinix.com](https://fabric.equinix.com). The main heading is "Add New Edge Device". Below it, there are fields for "Vendor Package", "Device Type", and "Location". Under "Vendor Package", a dropdown menu is open, showing "Select Vendor" and "aviatrix" highlighted with a red arrow. To the right of the dropdown are two empty input fields labeled "Select Device Type".



## 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

STEP 1  
Gateway  
Configuration

STEP 2  
Interface  
Configuration

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

WAN (selected) LAN 1 MGMT 1 + WAN Interface

Interface Labels BGP Off

WAN 0

Primary Gateway Interface CIDR Default Gateway IP Public IP (Optional Discover)

Interface Labels BGP Off

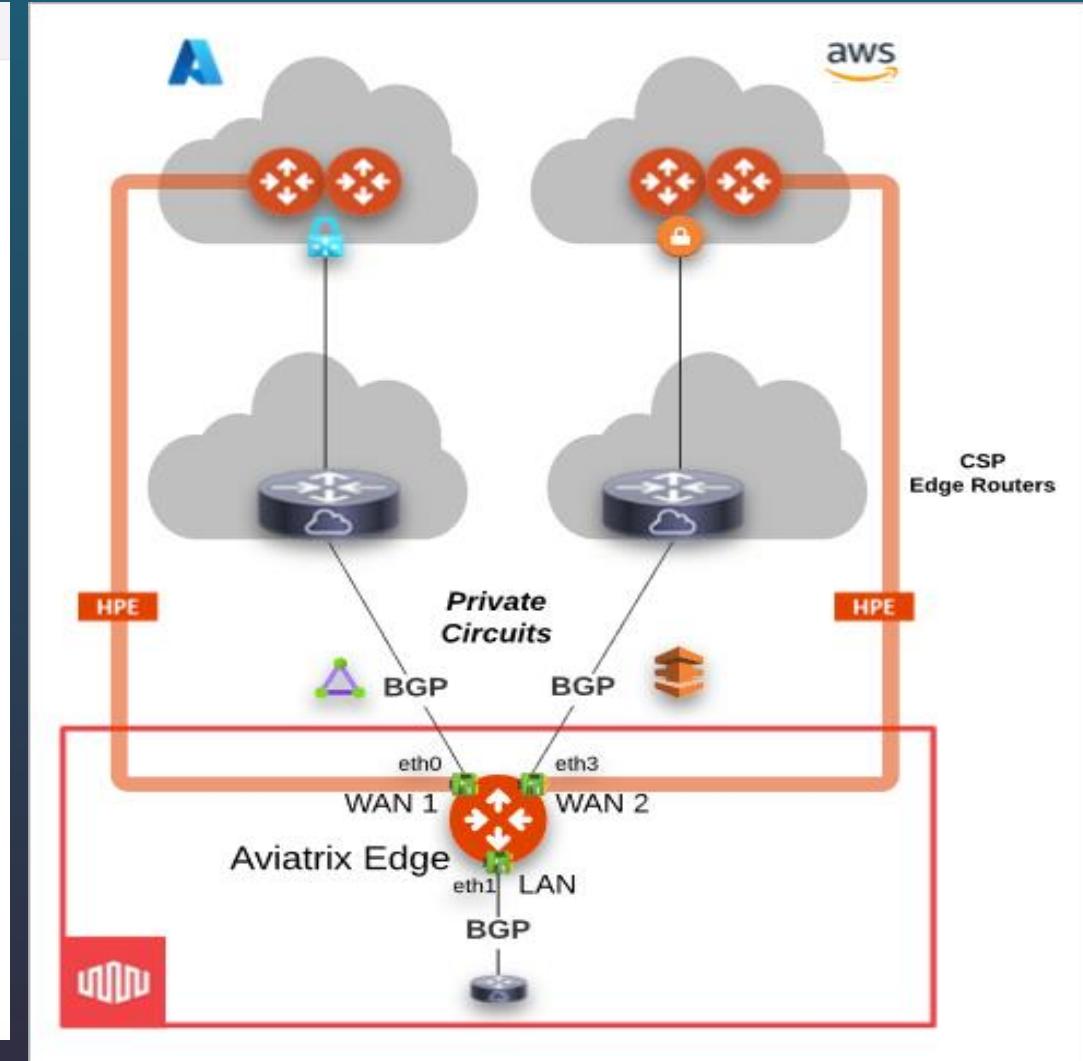
WAN 1

Primary Gateway Interface CIDR Link-Local Underlay CIDR Default Gateway IP

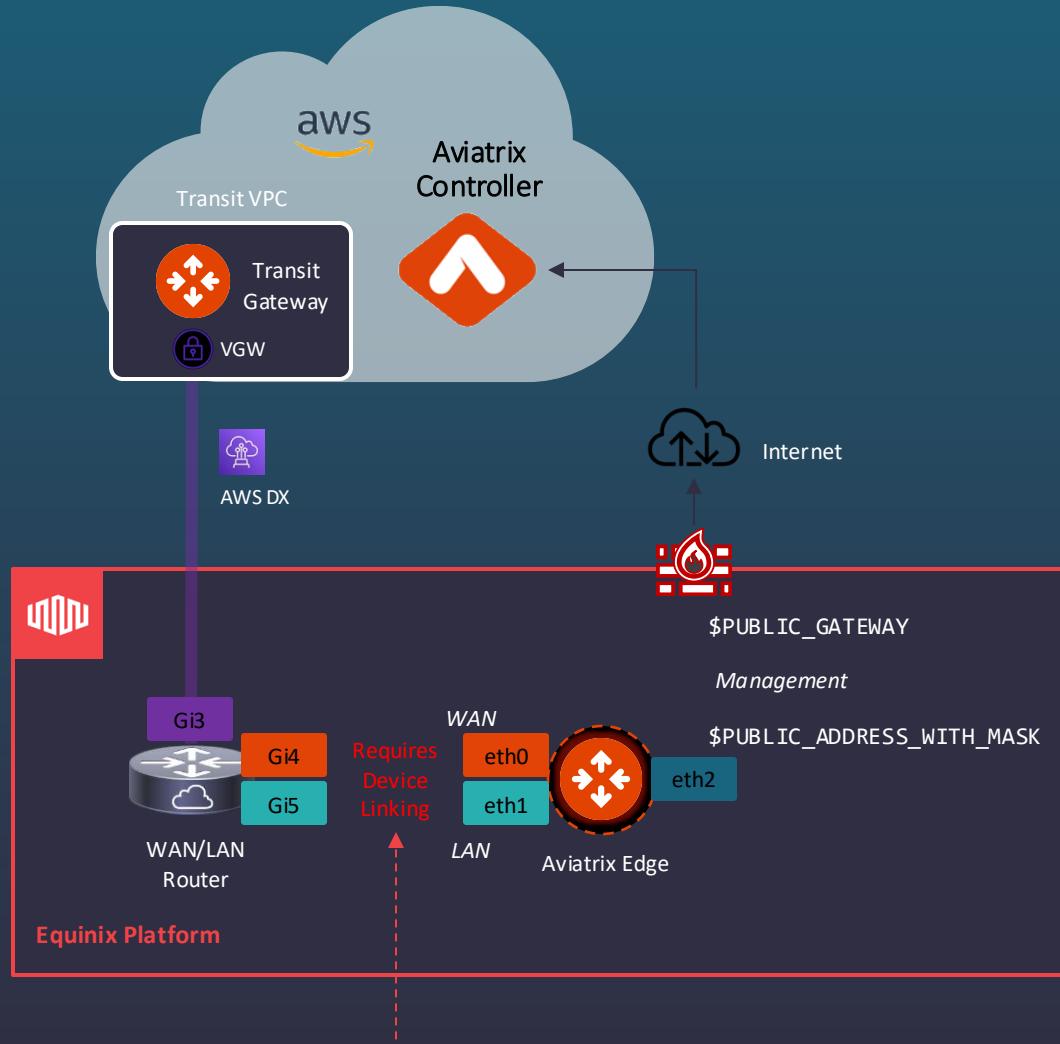
Public IP (Optional Discover)

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

Cancel Done

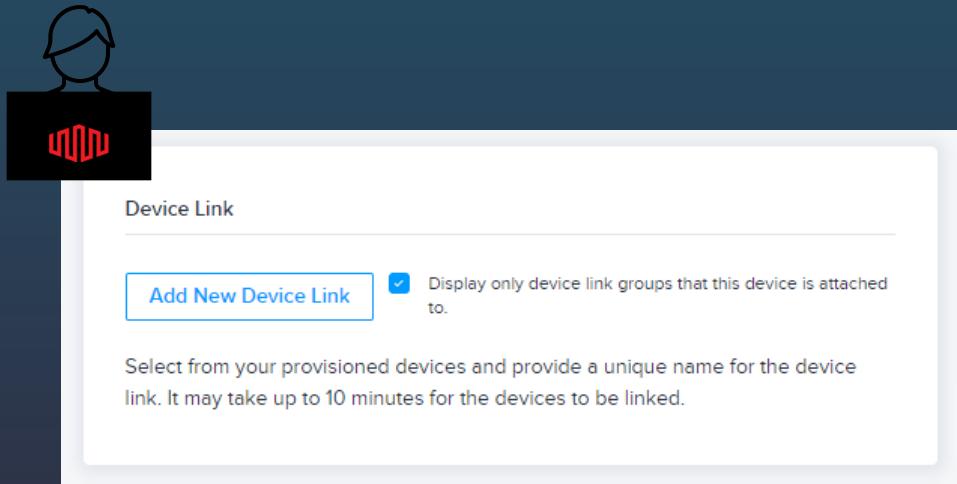


# Equinix Device Linking



Device Linking Table

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





# Megaport

## Aviatrix Edge on **Megaport Virtual Edge (MVE)**

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High Performance Encryption  
for Multicloud Connectivity



# Aviatrix Edge on Megaport Virtual Edge (MVE)

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## Key Benefits

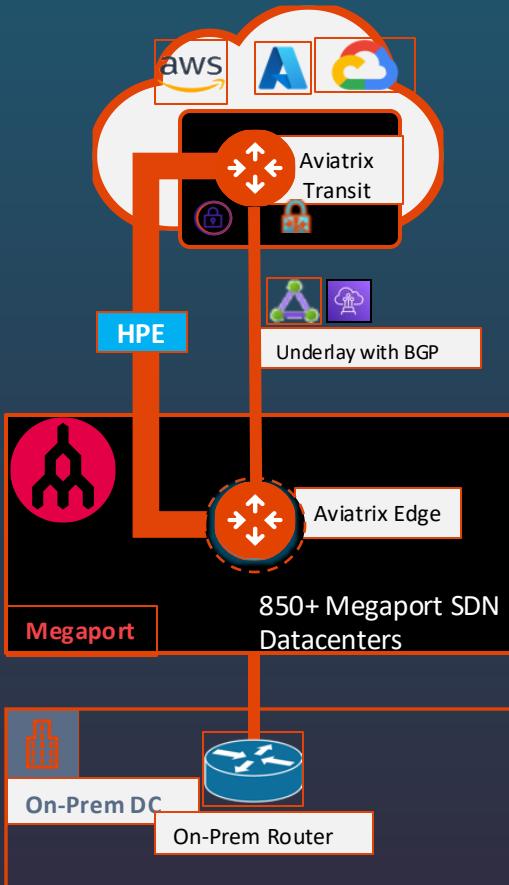
- A cloud-like experience for hybrid cloud environments across multicloud environments that provides a consistent, high performance, secure, and resilient architecture.
- On-demand provisioning of hybrid cloud edge and private connections leveraging Megaport fabric.
- Complete network traffic visibility 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 Edge in Megaport MVE

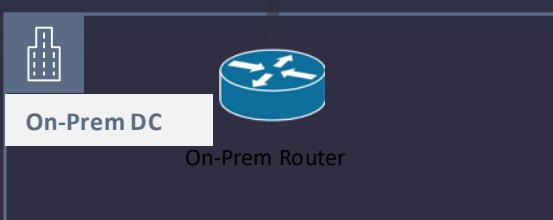
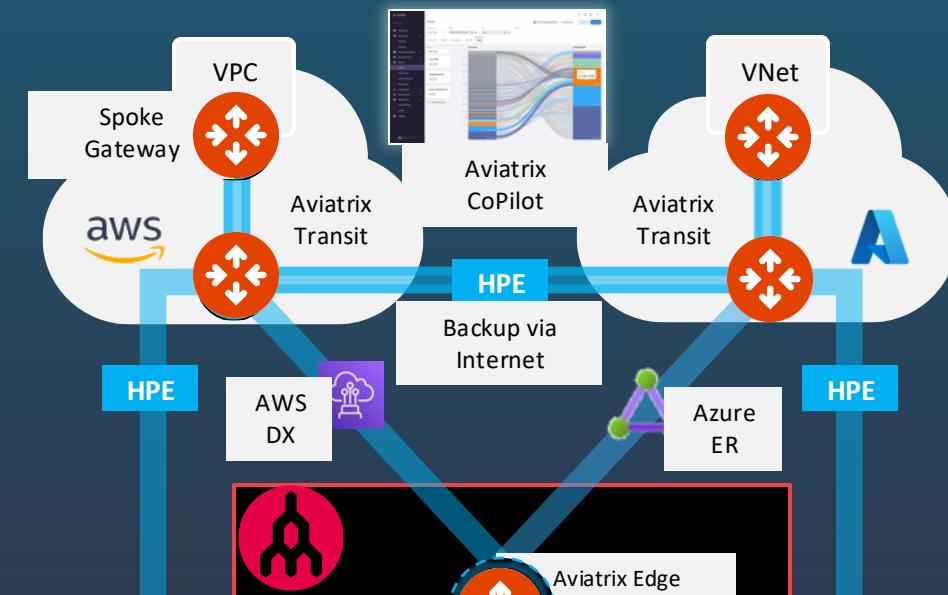
Aviatrix Secure Edge in MVE – 2vCPU, 4 vCPU and 8 vCPU VM offering . No physical hardware

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

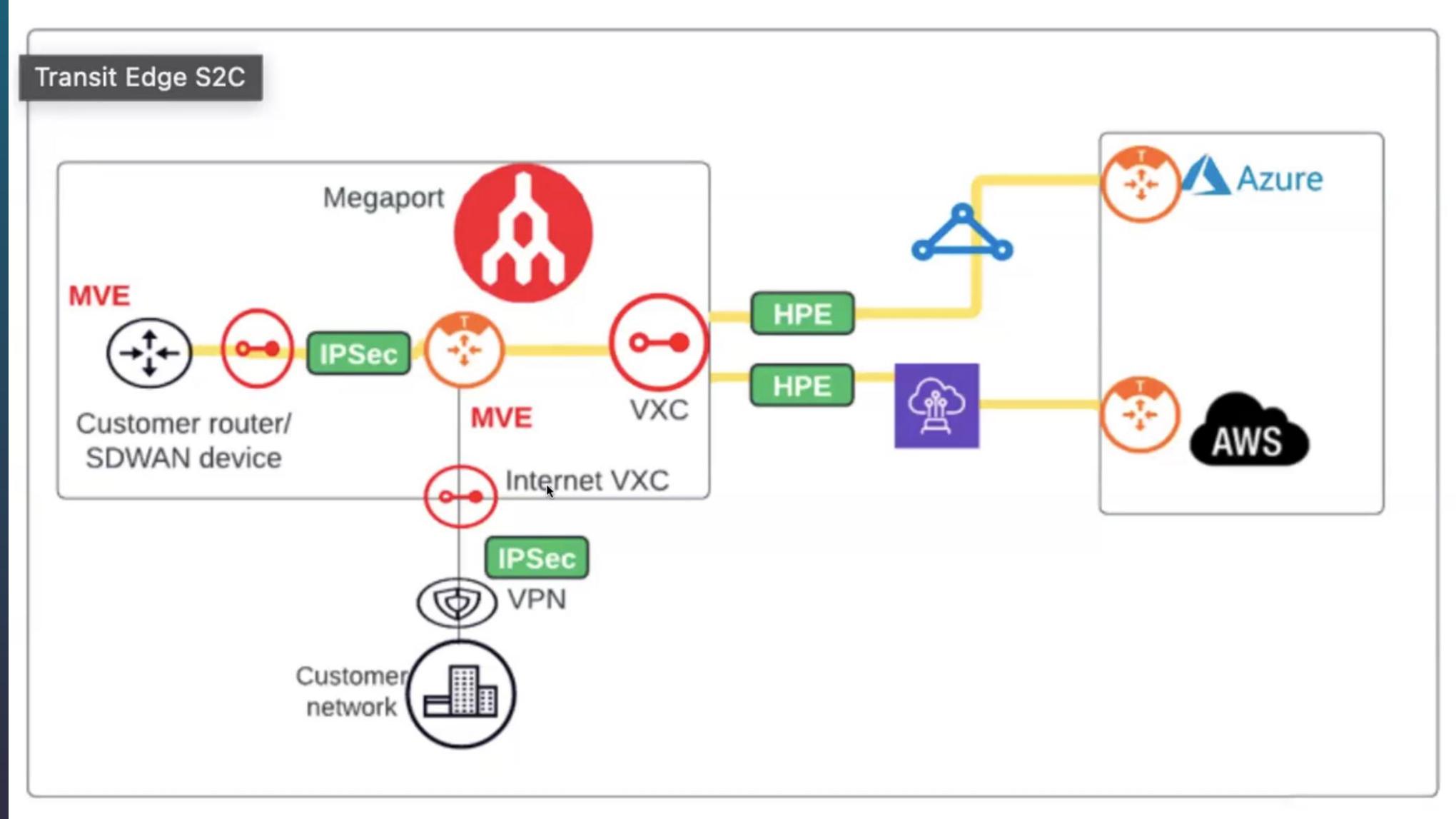
Hybrid Connectivity  
with Option for End-to-End Encryption



Hybrid, Multi-Cloud Connectivity



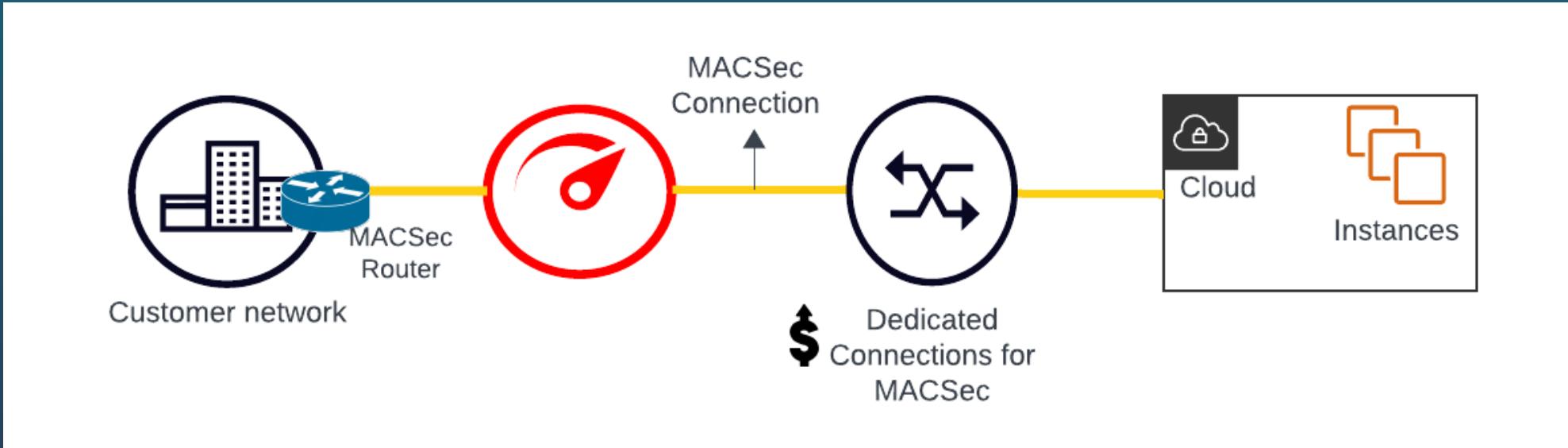
# Aviatrix Transit Edge in Megaport MVE



# 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.

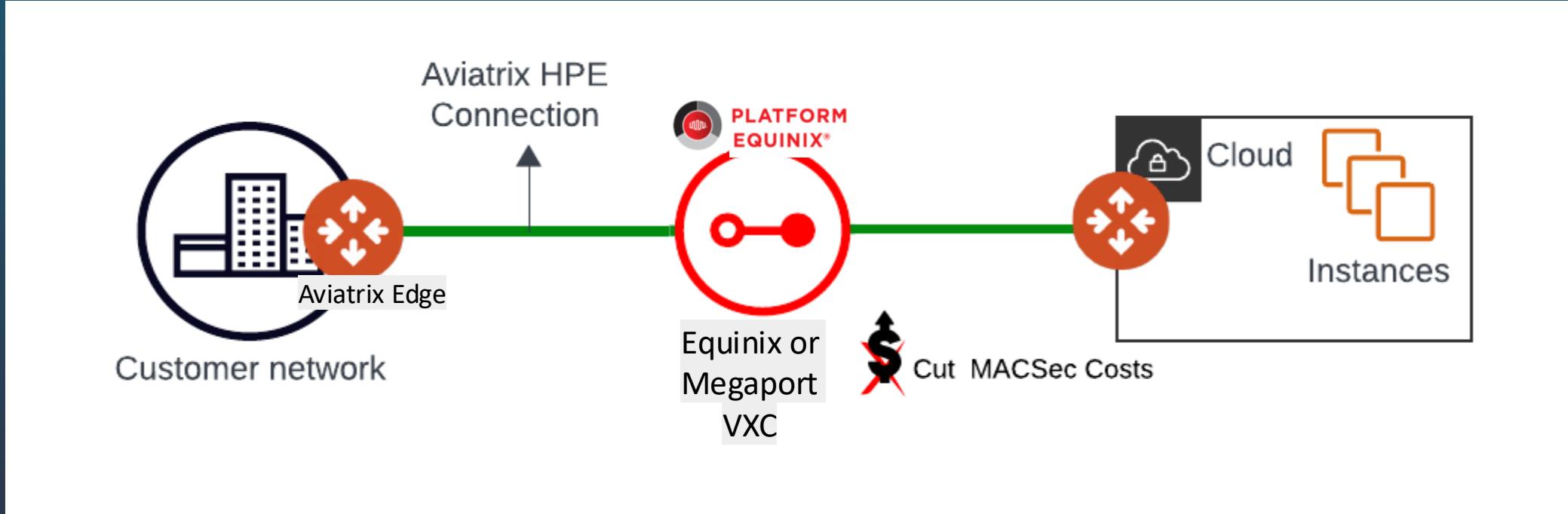
# MACSec to Cloud



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

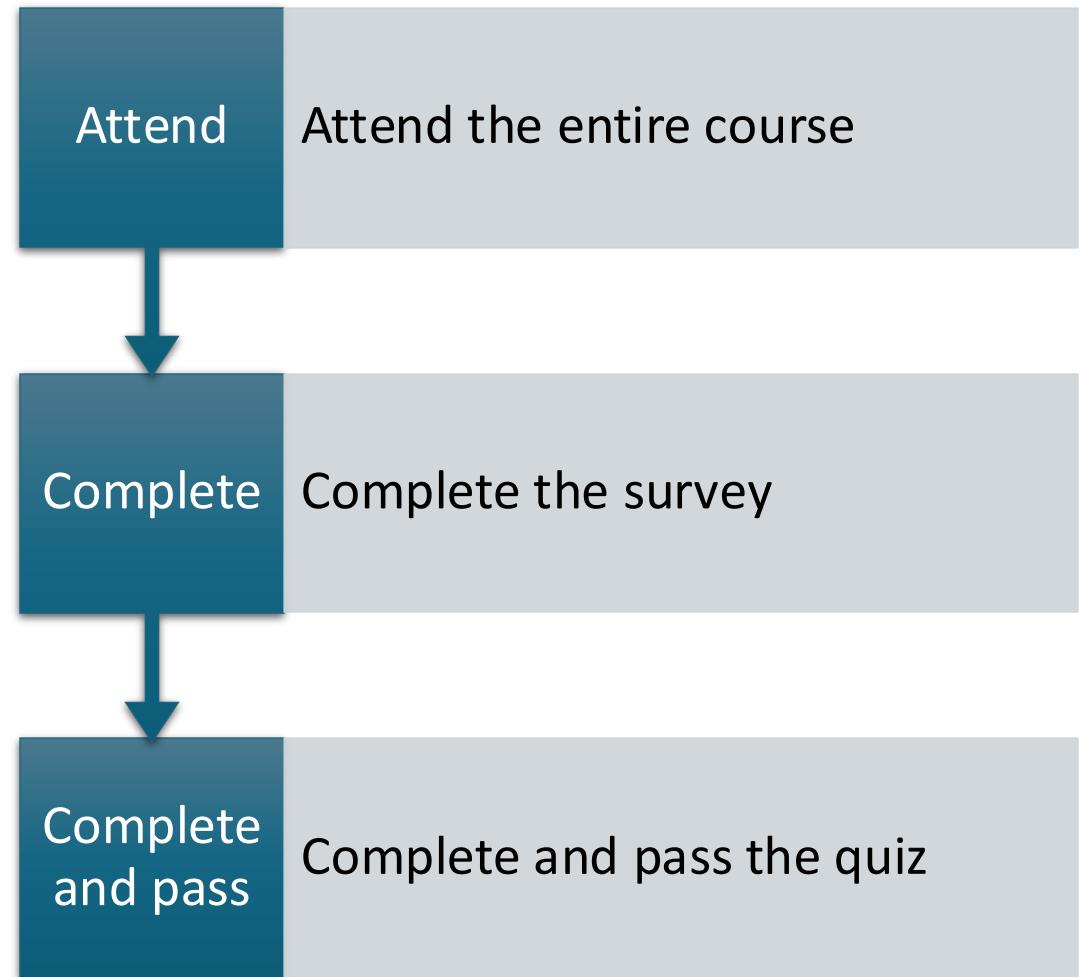
# Remove MACSec Configuration complexity and Significant cost savings



# 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>