



# Epsilon Cloud Networking

Multi-Cloud Networking with Operational Visibility and Control

## What is Epsilon Cloud Networking?

Hyperscale clouds have proven to be the way forward for delivering application scale and flexibility. The massive shift from the on-premise data centres to hyperscale clouds brings a huge challenge to networking.

Epsilon Cloud Networking allows you to directly control native cloud networking constructs to maintain cloud simplicity and automation. It delivers a multi-cloud platform with the operational visibility and control across several cloud environments including Amazon Web Services, Google Cloud Platform, Microsoft Azure and Oracle Cloud.

Epsilon Cloud Networking uses Epsilon's private network as underlay and the Aviatrix controller as overlay, with multi-cloud networking that goes beyond the cloud gateways, allowing users to manage their VPC/VNETs within and across clouds.

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### CLOUD CHALLENGES FACED BY ENTERPRISES TODAY

IT Requirements



Complexity & Skills Gap



Architecture Gap



Lack Of Visibility



Limited Security



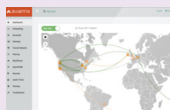
Manual Process

## We Make Your Cloud Network Enterprise Grade

Epsilon's Cloud Networking removes the complexity from building, securing and maintaining cloud-based networks no matter where they exist. This may seem simple at first, but cloud provider networks have become very complex. Be it AWS or Azure, or any other public or private cloud, each one has nuanced differences that make it difficult to secure and maintain as enterprise workload requirements change. Couple that with the need for hybrid and multi-cloud configuration which require cross-cloud connectivity with virtual private networks, inter-cloud connectivity, dynamic access controls and more, you can easily see why a product our cloud networking solution makes sense.



AVIATRIX  
CONTROLLER



AUTOMATION &  
OPERATIONAL CONTROL



OPERATIONAL  
VISIBILITY



TRAFFIC FLOW  
ANALYSIS

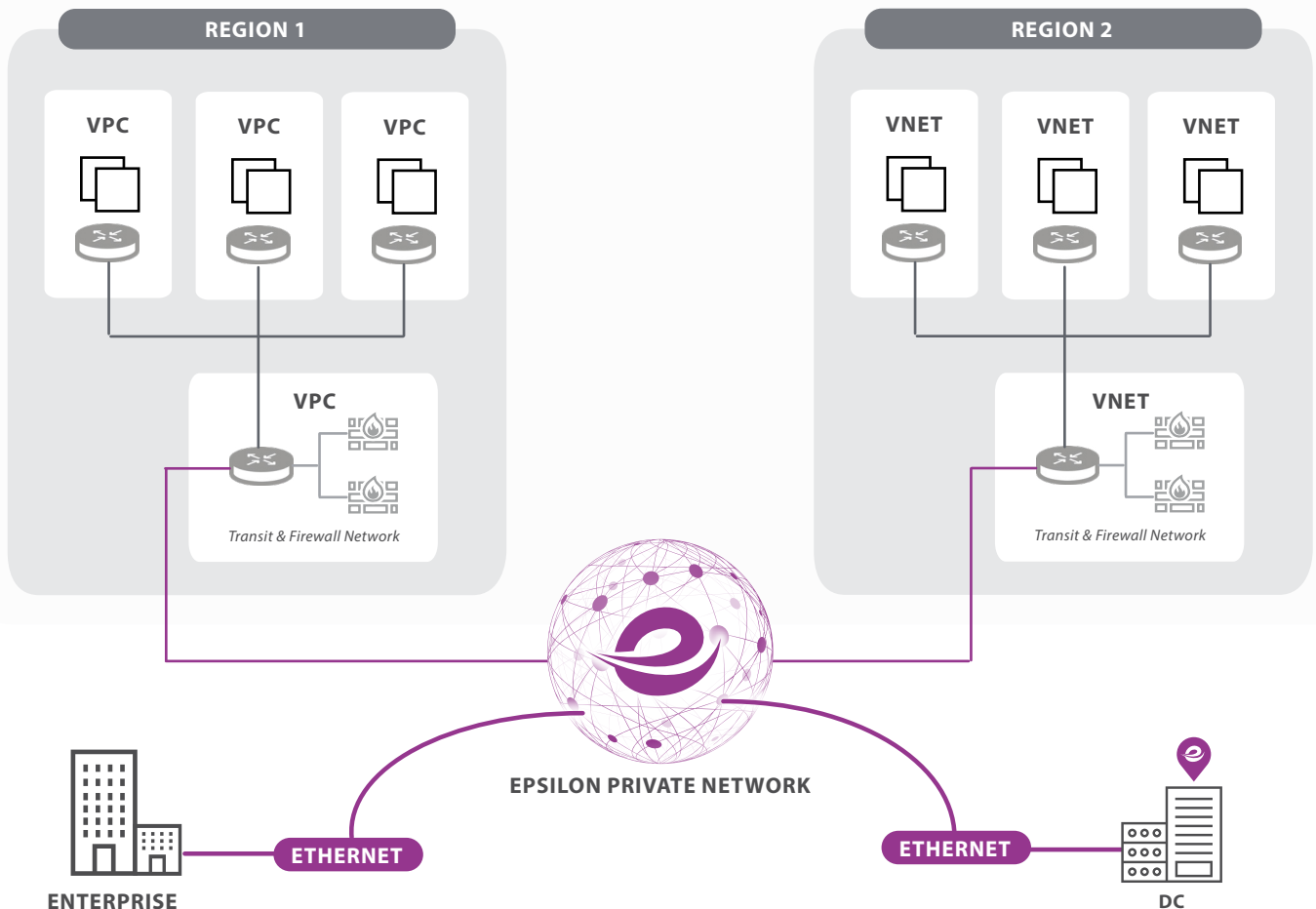


DYNAMIC TOPOLOGY  
MAPPING



AVIATRIX  
COPILOT

epsilon



## Cloud Network Simplicity & Automation

The Epsilon cloud networking platform brings multi-cloud networking, security, and operational capabilities that go beyond what cloud service providers offers.

The solution delivers a multi-cloud network architecture with a common network data and operational plane. With point and click workflows and automation, enterprise no longer need to undertake the complex and manual processes of native cloud networking. Epsilon Cloud Networking provides all the tools they need to transform their cloud networking through a single relationship.

The Epsilon-Aviatrix advanced network data plane features include end-to-end and high performance IPSec encryption up to 75Gbps, active high availability links and day-two operational and troubleshooting.

“Business transformation has driven enterprise IT organisations to embrace public cloud as the new centre of gravity for applications and data. Cloud operations teams are facing more challenges including limited visibility, lack of network control and skill gaps. Our cloud networking service will enable businesses to take on these challenges more effectively.”

**Sergio de Oliveira**

Global Product Manager  
Epsilon



### All The Way To VPC/VNET

Our solutions goes beyond the cloud gateways all the way to VPC/VNET level, allowing you to manage your VPC/VNETs within and across clouds



### High Performance Encryption

Standard IPSec encryption is limited to 1.25 Gbps. Epsilon's high performance encryption distributes processing across multiple cores and aggregates IPSec tunnel to achieve wirespeed encryption, up to 75 Gbps



### Simplified Repeatable Cloud Networking

A simplified repeatable cloud networking architecture across any cloud by abstracting the otherwise complex and manual processes of native cloud networking with point and click workflows



### Visibility & Operations

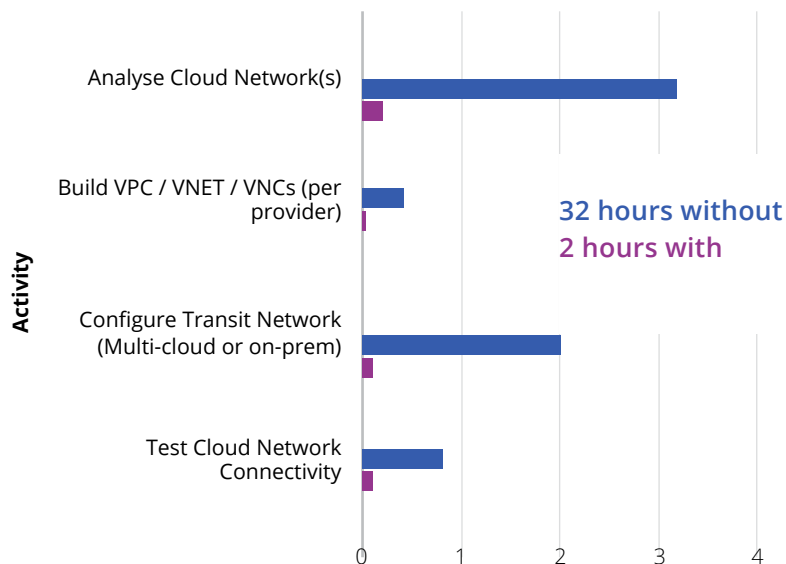
Advanced visibility & operations via controller FlowIQ-Intelligence Network Traffic Flow Analytics

## Features and Capabilities

- Multi-Cloud Network Architecture**  
 Helps enterprise cloud network architects create a multi-cloud network architecture and offers a cloud network platform that provides the software and services required to plan, deploy and operate a secure enterprise multi-cloud network
- Centralised Controller**  
 Leverages the centralised intelligence and knowledge of the controller to dynamically program both native cloud network constructs
- Network Service Gateways**  
 Deliver advanced cloud networking security services. Gateways are primarily deployed to deliver transit network and security services such as intelligent dynamic routing, active-active network high availability, end-to-end and high-performance encryption and collect operational visibility telemetry, but also for secure network ingress and egress filtering and external service insertion
- Operational Visibility**  
 Day-two operations visibility and troubleshooting. Enterprise network operations teams must have deep visibility into the network activities
- Epsilon Private Network**  
 Enterprise-class solution with embedded security using Epsilon private network as underlay and Aviatrix controller as overlay
- Dynamic Network Mapping**  
 Leverages the central intelligence and knowledge of the controller to dynamically generate & maintain an accurate multi-cloud network topology map that includes all network resources & network configurations the controller is managing
- FlowIQ - Intelligence Network Traffic Flow Analytics**  
 Extracts detailed network traffic data from secure transit infrastructure including source, destination, port and protocol filtering and combined with additional meta data such as latency and tagging to deliver never before possible multi cloud flow inspection & global traffic heat map
- High-Availability (HA) Networking**  
 HA networking with full resiliency in both overlay & underlay network
- High Performance Encryption**  
 High performance encryption distributes processing across multiple cores & aggregates IPSec tunnels to achieve wire speed encryption, up to 75 Gbps
- Multi Cloud Segmentation**  
 Some clouds enable the creation of security domains, extend secure network segmentation beyond cloud boundaries, enabling multi-cloud security domains, with consistent, centrally managed, global network segmentation policy
- Secure Cloud Ingress & Egress Controls**  
 Offer both ingress and egress I4 and Fully Qualified Domain Name (FQDN) filtering. Centrally managed filter groups ensure consistent multi cloud security for any cloud application communicating with Internet-based resources and service
- Multi Cloud Network Service Insertion**  
 A secure point of access for network and security services such as next-generation firewalls, IDS/IPS and SD-WAN cloud edge connections

## Cloud Network Build & Deployment

■ Build and deploy without Aviatrix (in hours) ■ Deploy with Aviatrix (in hours)

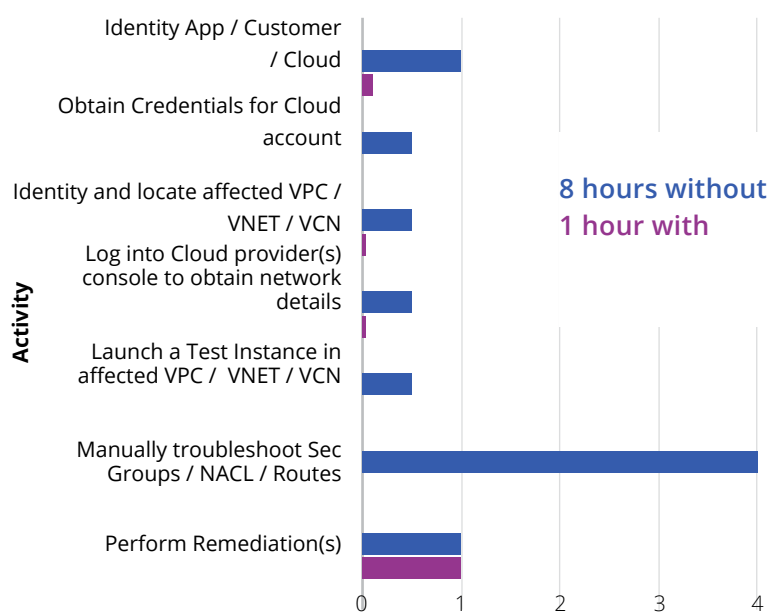


\* 50 Aviatrix accounts surveyed in Q4CY19 to create Composite Organisation

A recent study conducted among customers using the Aviatrix Cloud Networking solution shows a **14x** reduction in time to Plan, Build and Deploy Tasks, and a **7x** reduction time on Day-Two Operational Tasks

## Cloud Network Troubleshooting

■ Troubleshoot without Aviatrix (in hours) ■ Troubleshoot with Aviatrix (in hours)



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