



Cloud Backbone

ACE Team



AGENDA

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Intro

Multicloud Network Architecture

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CLOUD BACKBONE

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EDGE

Extend Cloud to the edge

Equinix Edge

04

ENTERPRISE ARCHITECTURES

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DEMO & LAB

Meet The trainers



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Aviatrix Overview



Building a Secure Cloud Network for the Ages

- Pioneers and experts in Networking, Security and Cloud technologies
- Recognized leader in emerging multicloud networking software market
- Enterprise-grade networking with security, agility and cost optimization
- Optimizes all major clouds for performance, security, service delivery
- Networking 600+ of the world's most innovative and recognized companies
- 10+% of Fortune 500 and 70 of Global 2K enterprises run on Aviatrix
- Global presence with 24x7 support
- “Customer for Life” philosophy



Gartner
COOL
VENDOR
2021



Customer / Partner
for Life



Realized Value >
Cost



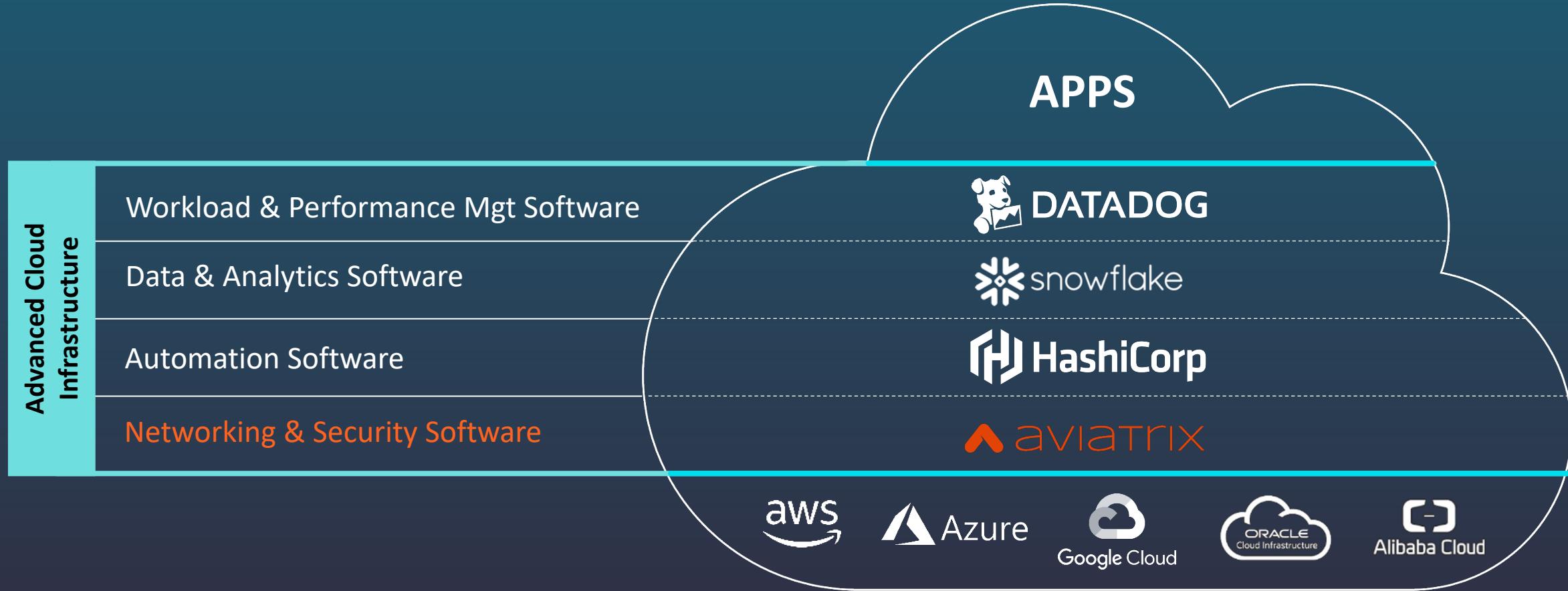
Predictability of
Outcome & Cost



Architecture
Matters

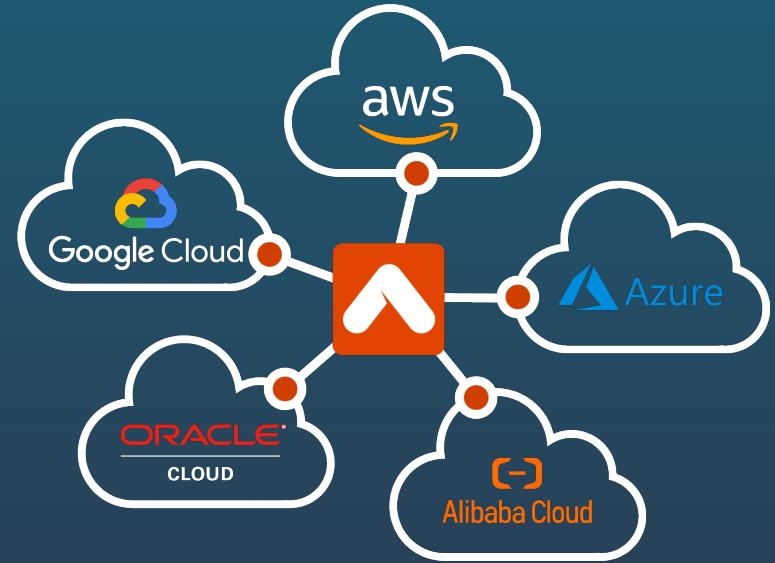
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Today's Cloud Operating Model Requires Advanced Cloud Services & Infrastructure



Cloud Networking is Fundamentally Different and Difficult

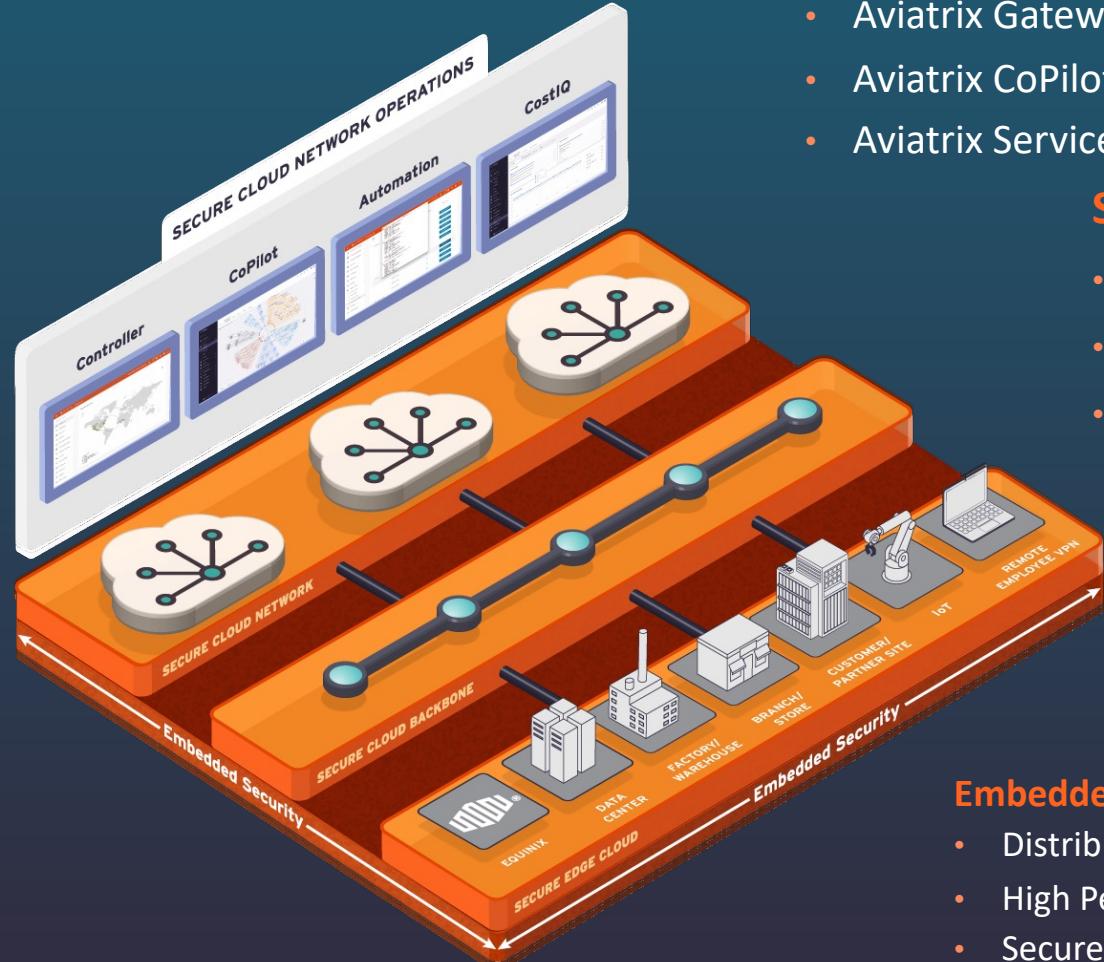
- Mission critical applications require a secure and stable infrastructure
- Business downtime costs millions and reputational risk
- Limited cloud native functionality puts your business at risk
- Skill gaps slow down cloud adoption and costs IT cycles
- Cloud Native Networking is complex, unintuitive and is unique within each cloud
- Today's cloud operating model requires a purpose-built solution for cloud networking and security



**“In the Cloud...
good enough is no
longer good enough.”**

Aviatrix Secure Cloud Networking

Cloud Agility and Automation with Enterprise-Grade Resiliency and Security



Secure Cloud Network

- Aviatrix Gateway distributed multicloud dataplane with embedded security
- Aviatrix CoPilot centralized network and security operations center
- Aviatrix Service Provider terraform for IaC module development

Secure Cloud Backbone

- High-performance multicloud transit networking
- Enterprise-grade operations and troubleshooting
- Advanced, embedded zero-trust security

Secure Edge Cloud

- Extends cloud operational model to edge locations
- Enterprise: High-performance encryption between cloud and on-prem
- Equinix Edge: Deployed on hosted Equinix Network Edge platform

Embedded Security

- Distributed Cloud Firewalls
- High Performance Encryption – up to 100 Gbps
- Secure Cloud Egress
- Distributed Threat Protection and Prevention
- L7 Firewall Service Insertion

Top Aviatrix Customer Use Cases

Datacenter Evacuation

Mission-Critical Apps

M&A Integration

Multicloud

Our Products

Secure Cloud Networking

Embedded Cloud Network Security

Secure Cloud Network Edges

Cloud Network & Security Operations

Advanced Technical Services

Single or Multicloud Environments



Our Solutions

Secure Cloud Networking

Secure Egress

Secure Cloud Backbone

Secure Cloud Edge

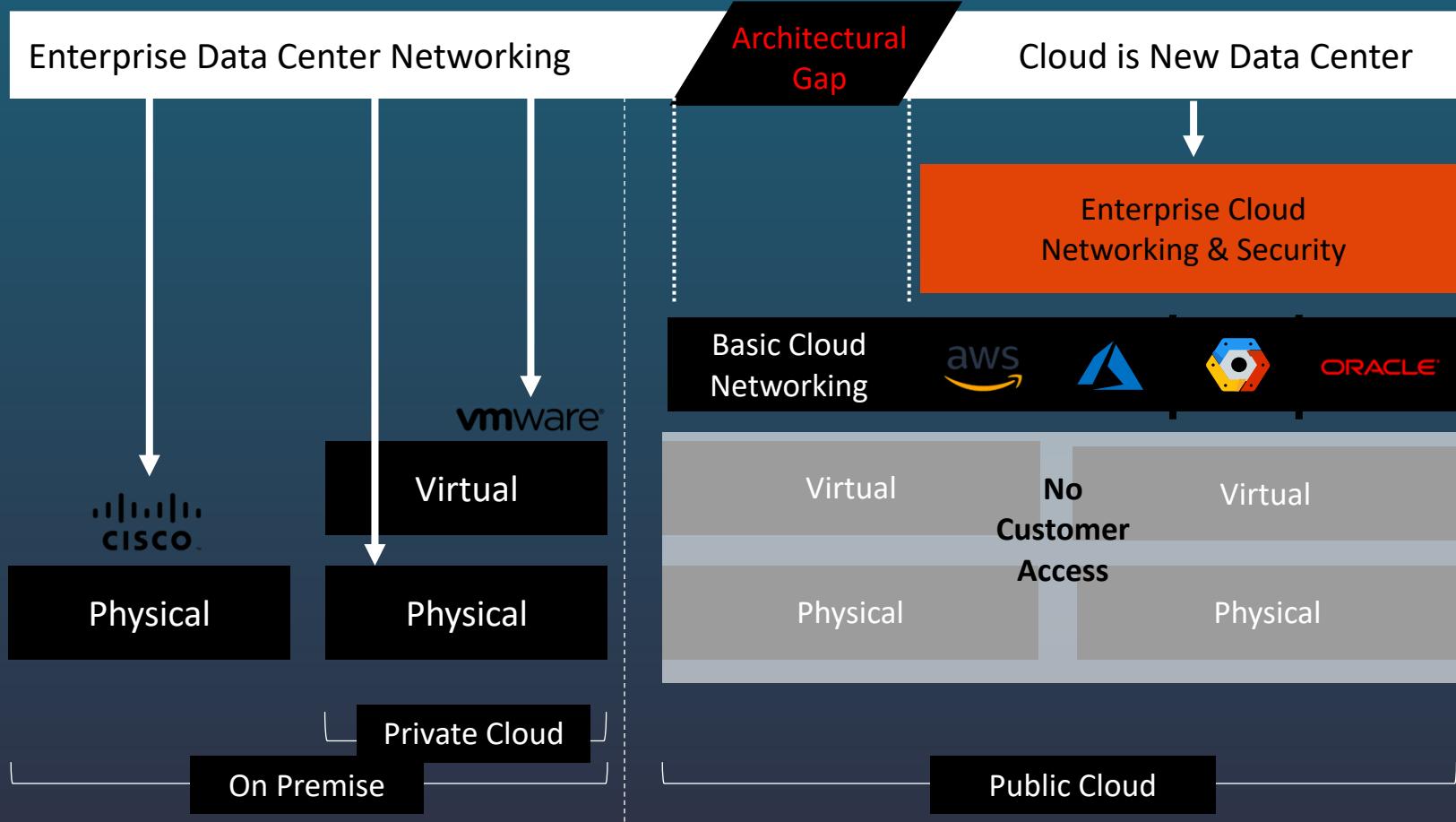
Secure Cloud Networking for SPs

Multicloud Network Architecture (MCNA)



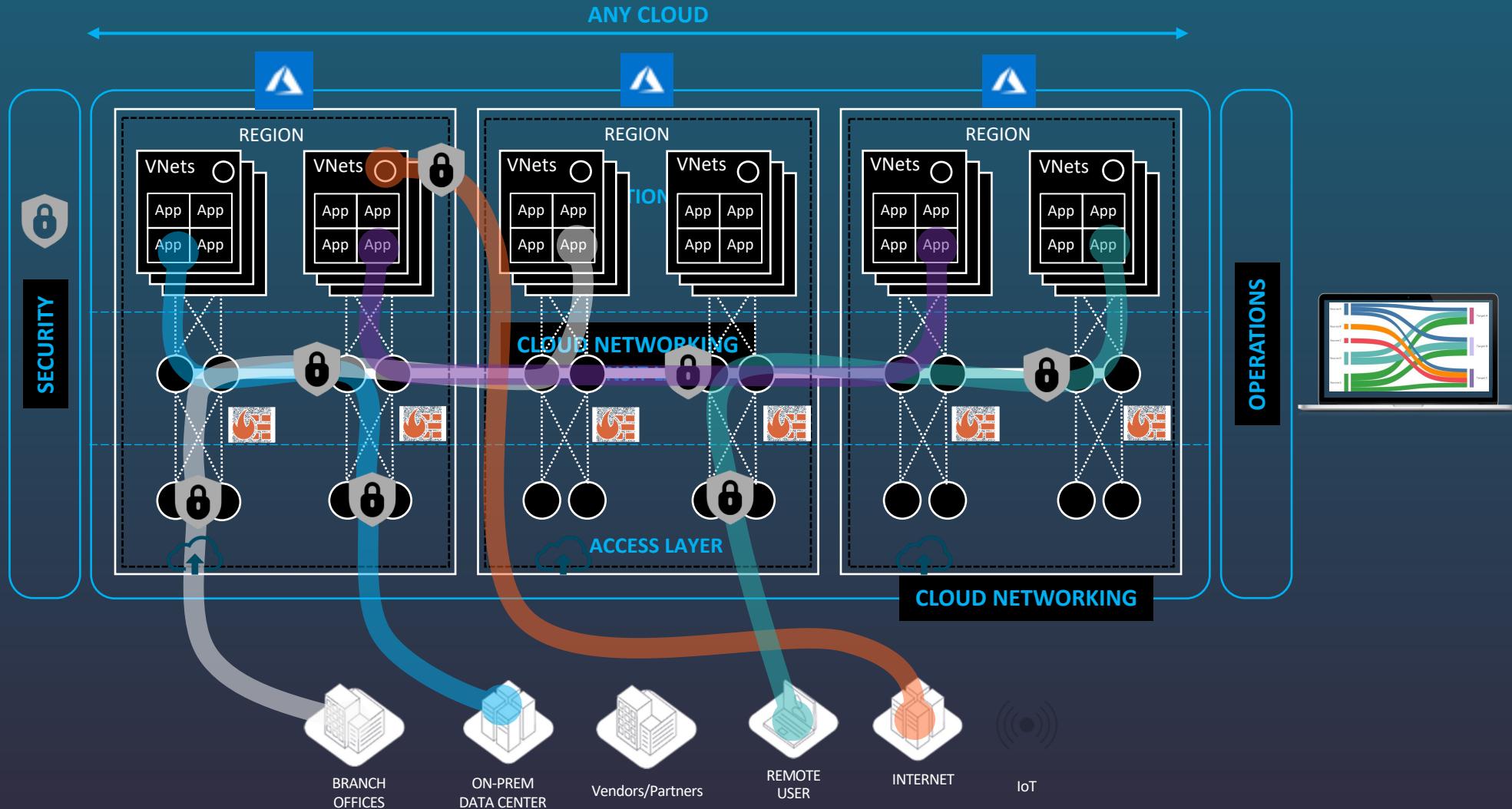
Enterprise Cloud Network Architecture?

Multi-Cloud
Networking



Cloud Network Reference Architecture

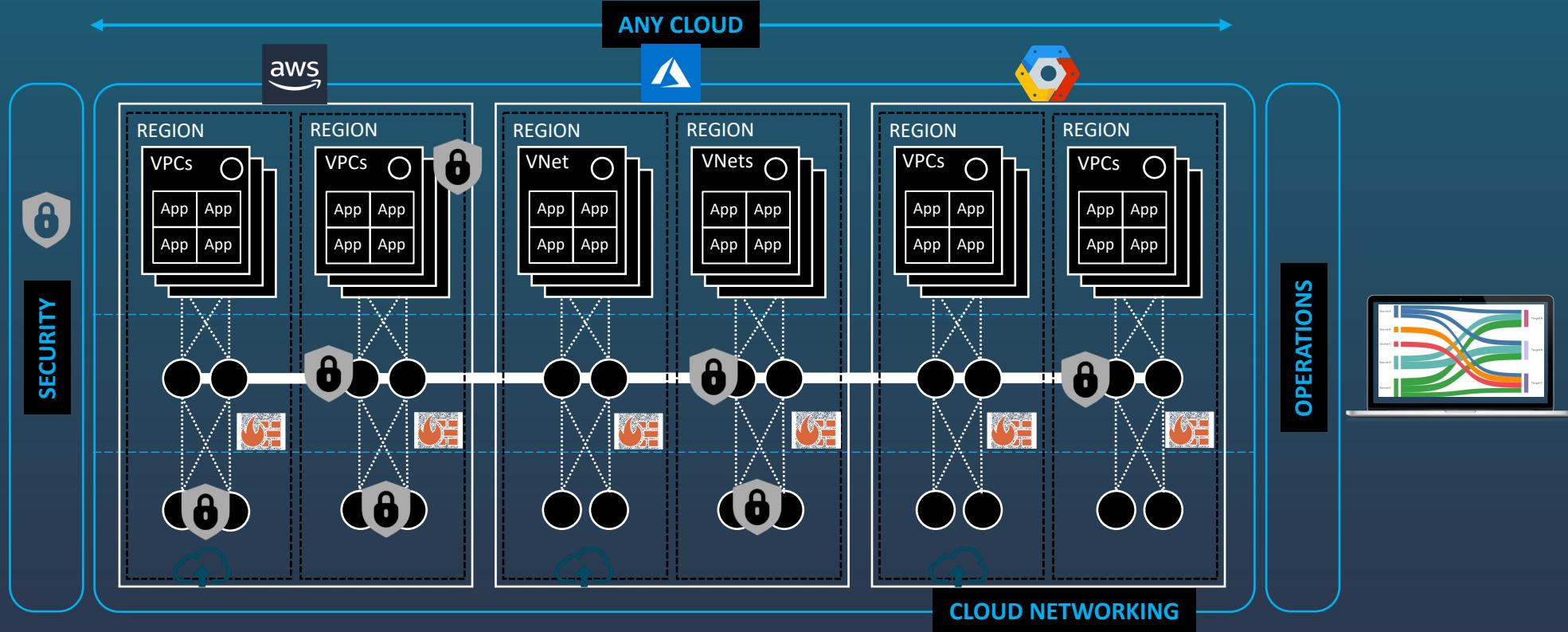
- Single Cloud, Multi-Region, Multi-Account
- Repeatable Network Design & Infrastructure as Code Automation
- Service Insertion & Chaining
- Consistent Security Policy
- Common Operational Visibility and Control



Multi-Cloud Network Architecture (MCNA)

- The Blueprint of Your Multi-Cloud Network Design

- Single Cloud, Multi-Region, Multi-Account
- Repeatable Network Design & Infrastructure as Code Automation
- Service Insertion & Chaining
- Consistent Security Policy
- Common Operational Visibility and Control



Aviatrix Platform Components



Aviatrix Software

Aviatrix Controller



The Brain. Software download from CSP Marketplaces.
Only one required, manages control plane, never in data plane

Aviatrix Gateways



Foundation of Aviatrix Multicloud data plane. Operates on cloud compute.

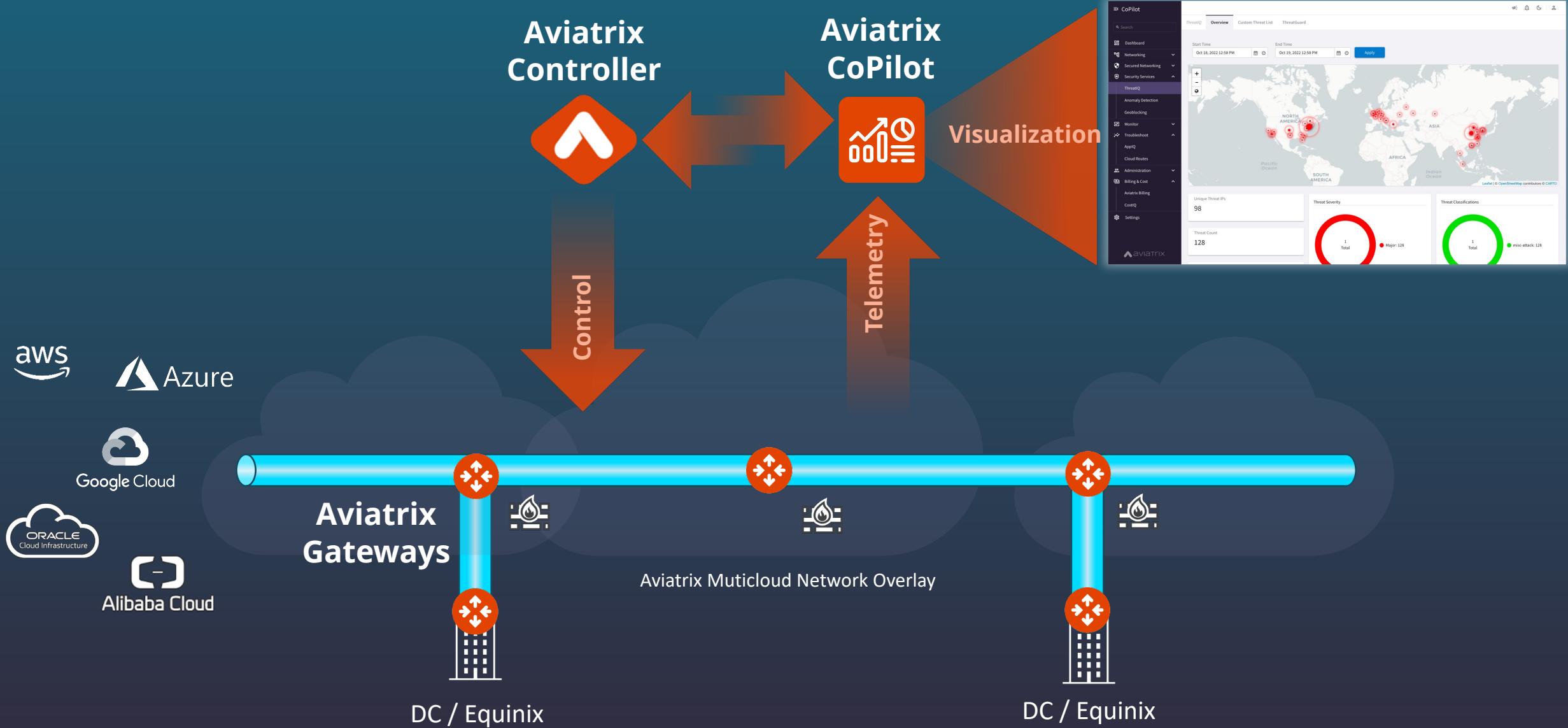
Advanced cloud network routing, network telemetry, traffic inspection and policy enforcement

Aviatrix CoPilot



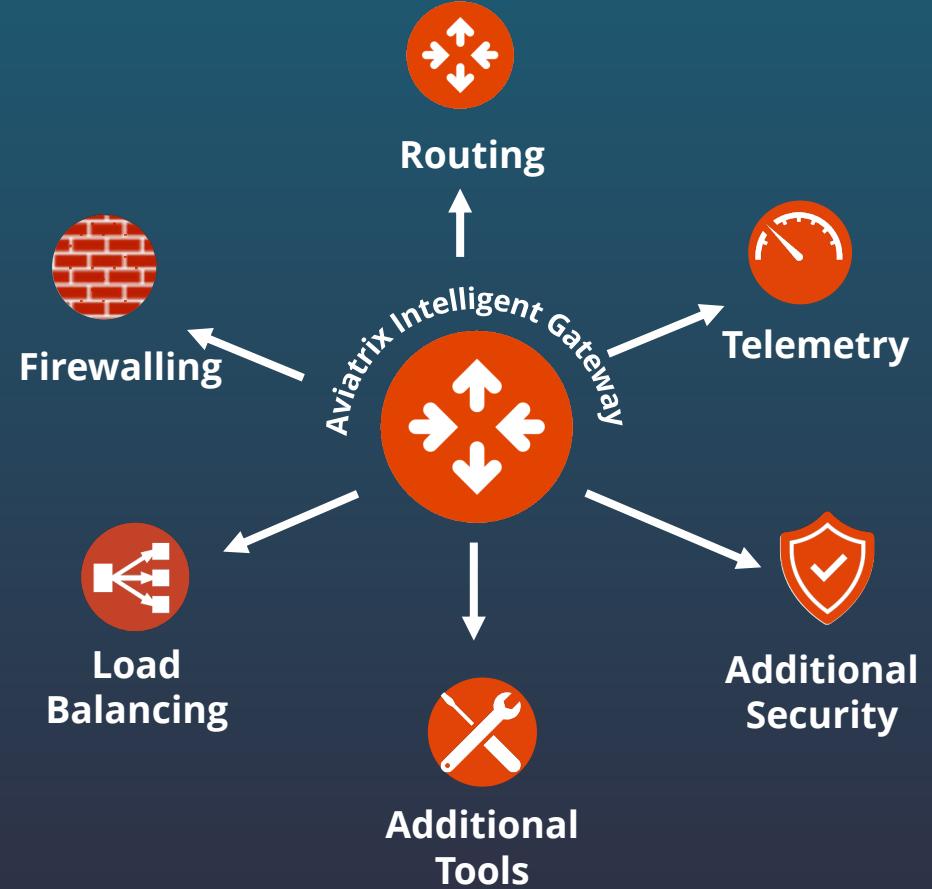
Aviatrix interface to Controller and enterprise-grade visualization.
Supports RBAC, programmable policy intent, export base Terraform

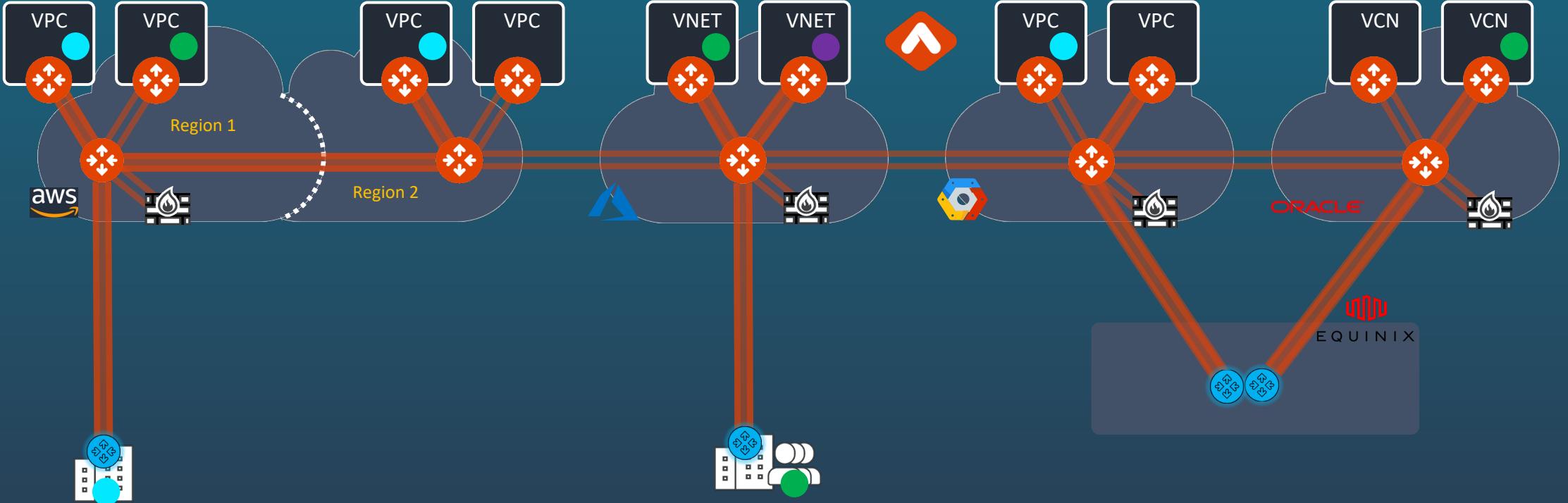
Aviatrix Software



Embedding Intelligence in the Aviatrix Data Plane

- **Intelligent Routing**
 - Dynamic Traffic Engineering
- **Distributed Firewalling**
 - L4 / L7, Programmable Intent
- **Telemetry**
 - Network, Security and Cost
- **Load Balancing**
 - Intelligent Load Balancing, Bi-Directional Hashing
- **Additional Security**
 - IDS/IPS, URL Filtering, Vulnerability Scanning Threat Detection, Anomaly Detection
- **Additional Tools**
 - Auto-scaling, Packet Capture, Ping Trace-Route





Repeatable Architecture

One robust architecture across single-cloud or multi-cloud environments

Ensure Network Correctness

Alleviate manual complexities and errors by automating/provisioning routes

Achieve Operational Visibility

Real-time network data and analytics that make troubleshooting easy

High-Availability

Highly-resilient architecture minimizes downtime for mission-critical applications

End-to-End Encryption

High performance encryption – 50x the industry standard

Automate Network Segmentation

Easily configure communication between workloads, users, and sites across multiple clouds

Service Insertion & Secure Ingress/Egress

Rapidly deploy firewall, FQDN filtering, & monitoring/analytics across your network

Threat Identification & Remediation

Identify, notify, & block threats to your network