



MultiCloud Network Architecture MCNA

ACE Technical Team

Multicloud Networking is a Must – Ask the Experts

- Gartner

- *"By 2025, 35% of companies that use multiple public cloud providers will use a single network stack, an increase of over 10 times from May 2021."*¹

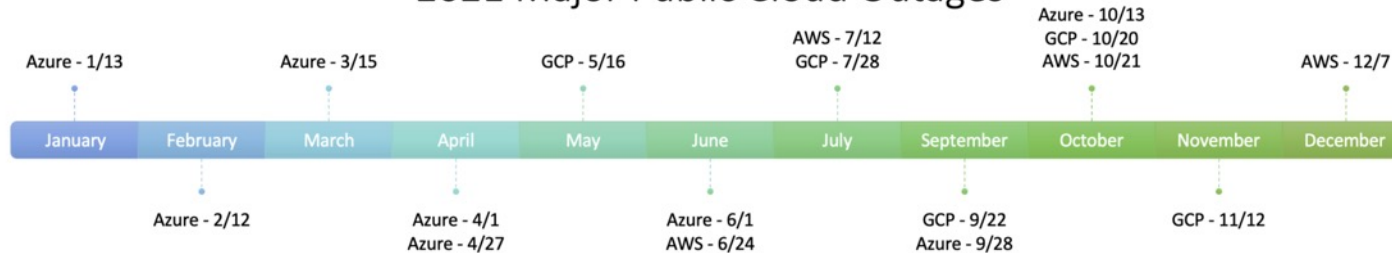
- Forrester

- *"Multicloud Is Hard, But Single-Cloud Failures Make It Necessary For Enterprises."*²

- Aviatrix

- *"You're only in a single cloud until you're multicloud."*

2021 Major Public Cloud Outages



1. <https://www.gartner.com/en/documents/4001639/market-guide-for-cloud-networking-software>
2. <https://www.forrester.com/blogs/multicloud-is-hard-but-single-cloud-failures-make-it-necessary-for-enterprises/>

Gartner Reference Material

- **Market Guide for Multicloud Networking Software (MCNS)¹**

- *“As organizations add new applications and scale existing ones into the public cloud, the shortcomings of the native cloud providers’ become more apparent.”*
- Key recommendations:
 - Don’t “forklift” traditional networking strategies into the public cloud.
 - Improve networking inside the public cloud by deploying MCNS when advanced networking features and/or a consistent network operations model across multiple public cloud environments is required.
 - Be able to address changing needs by making short-term MCNS investments, such as choosing consumption-based pricing, or a one to three-year time horizon.
 - Select MCNS offerings with strong security features (e.g., segmentation, encryption and firewall) and/or provide turnkey integration with selected security vendors.

- **Cool Vendors in Cloud Computing²**

- *Organizations looking for advanced networking functionality missing from native public cloud providers and/or those that desire a consistent networking console across multiple public cloud providers, **should shortlist Aviatrix***

1. <https://www.gartner.com/doc/reprints?id=1-29S4R0C1&ct=220419&st=sb>
2. <https://www.gartner.com/en/documents/4007802>

Market Guide for Multicloud Networking Software

Published 12 April 2022 - ID G00753059 - 12 min read

By Andrew Lerner, Arun Chandrasekaran, Jonathan Forest

Public cloud providers’ native networking capabilities are good enough for many use cases, but have notable gaps. Forklifting traditional virtual routers to fill these gaps is inefficient, so I&O leaders should adopt multicloud networking software to improve operations in public cloud environments.



Information Technology

Roles

Experts

Research & Tools

Insights

Events

Gartner Research

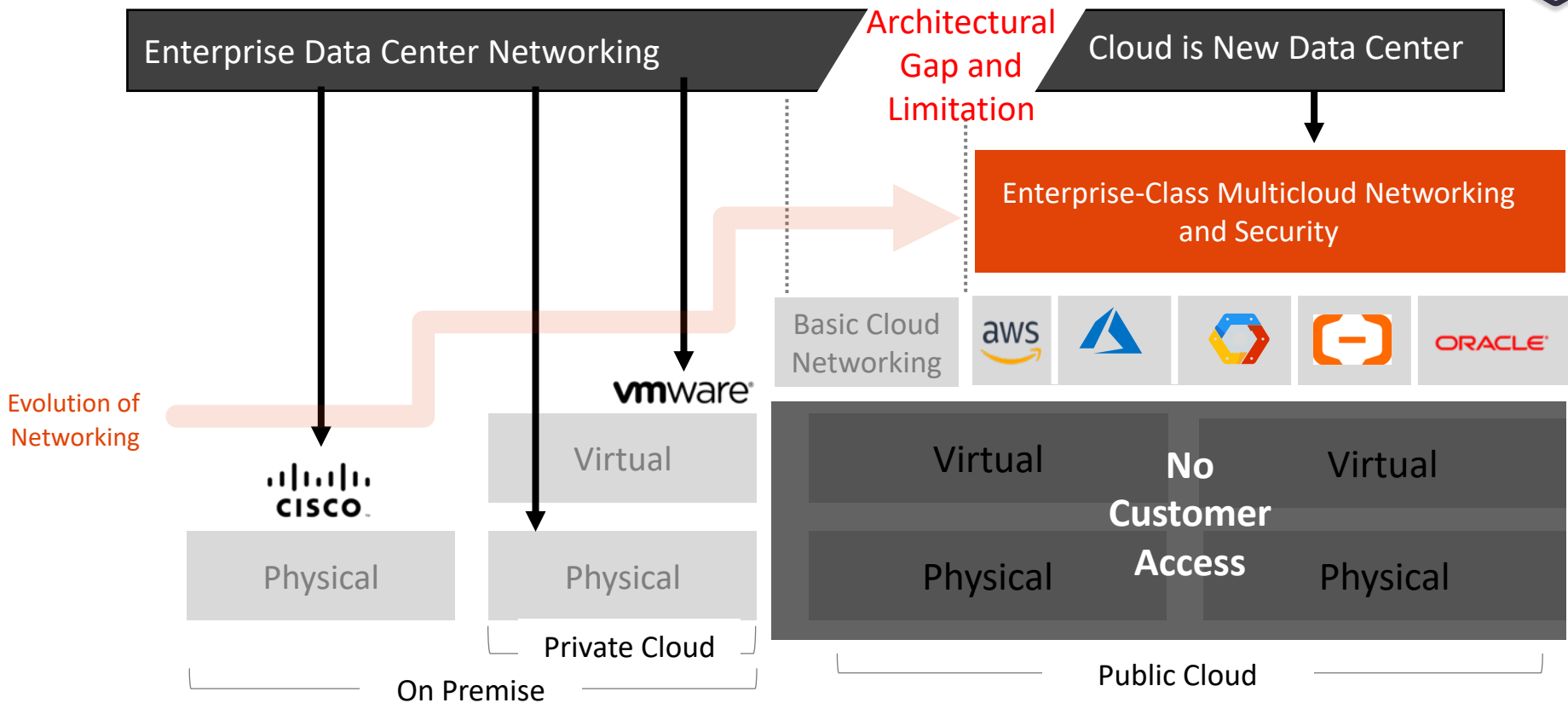
Cool Vendors in Cloud Computing

Published: 01 November 2021

Summary

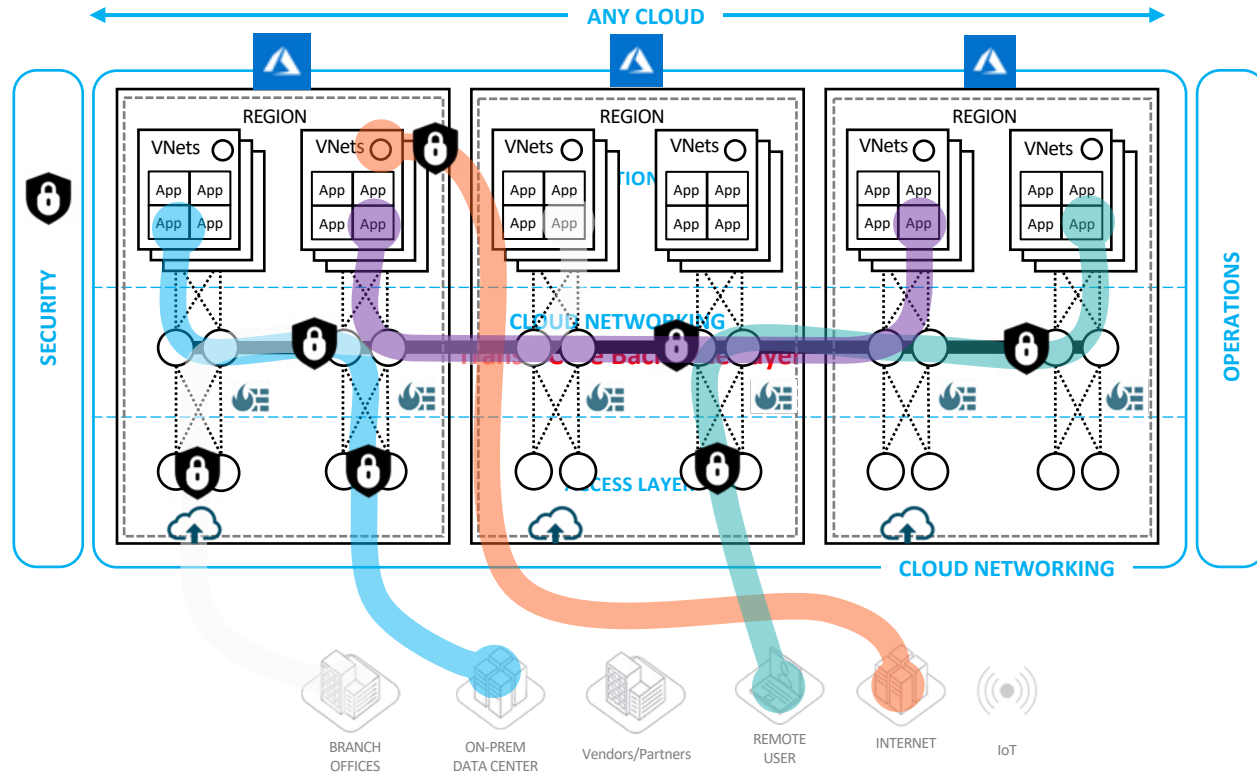
As organizations pursue a multicloud strategy, ensuring effective governance, integration and cost optimization are becoming critical challenges. CIOs should assess these Cool Vendors that have built innovative multicloud products as they formulate their cloud adoption strategy.

Cloud Adoption Gap | Need for Standard Multicloud Network Architecture (MCNA)



Cloud Network Reference Architecture

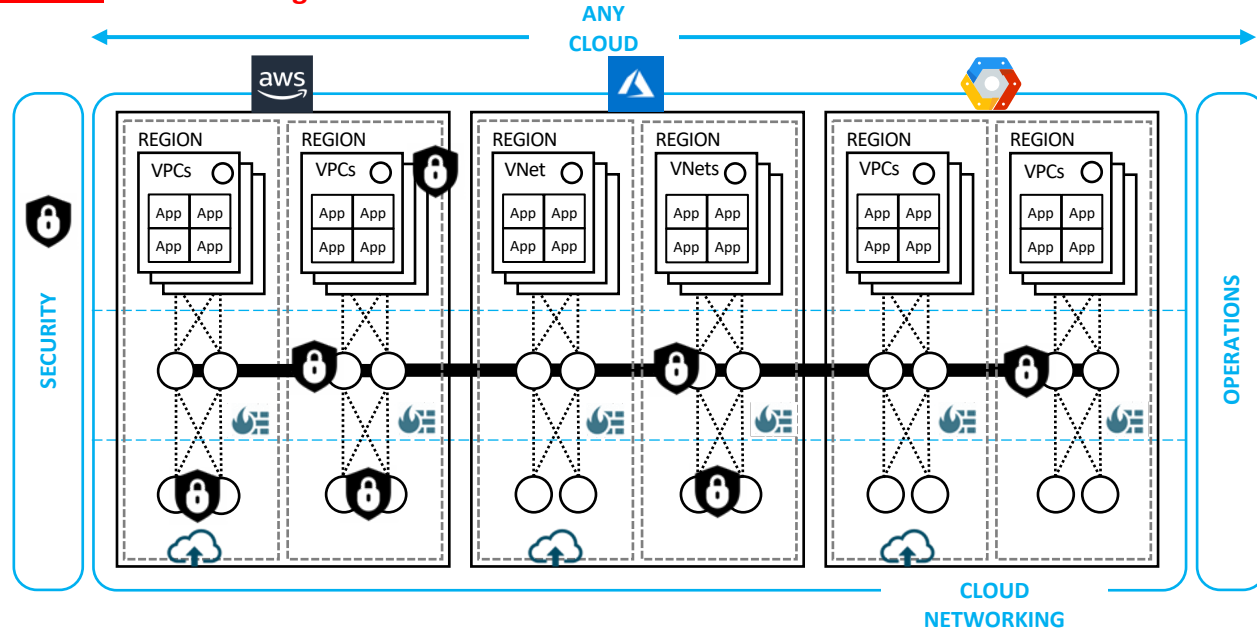
- **Single Cloud, Multi-Region, Multi-Account**
- **Repeatable Network Design and Infrastructure as Code Automation**
- **Service Insertion and Chaining**
- **Consistent Security Policy**
- **Common Operational Visibility and Control**



Multicloud Network Architecture (MCNA)

The Blueprint of Your Multicloud Network Design

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



BRANCH
OFFICES



ON-PREM
DATA CENTER



Vendors/Partners



REMOTE
USER

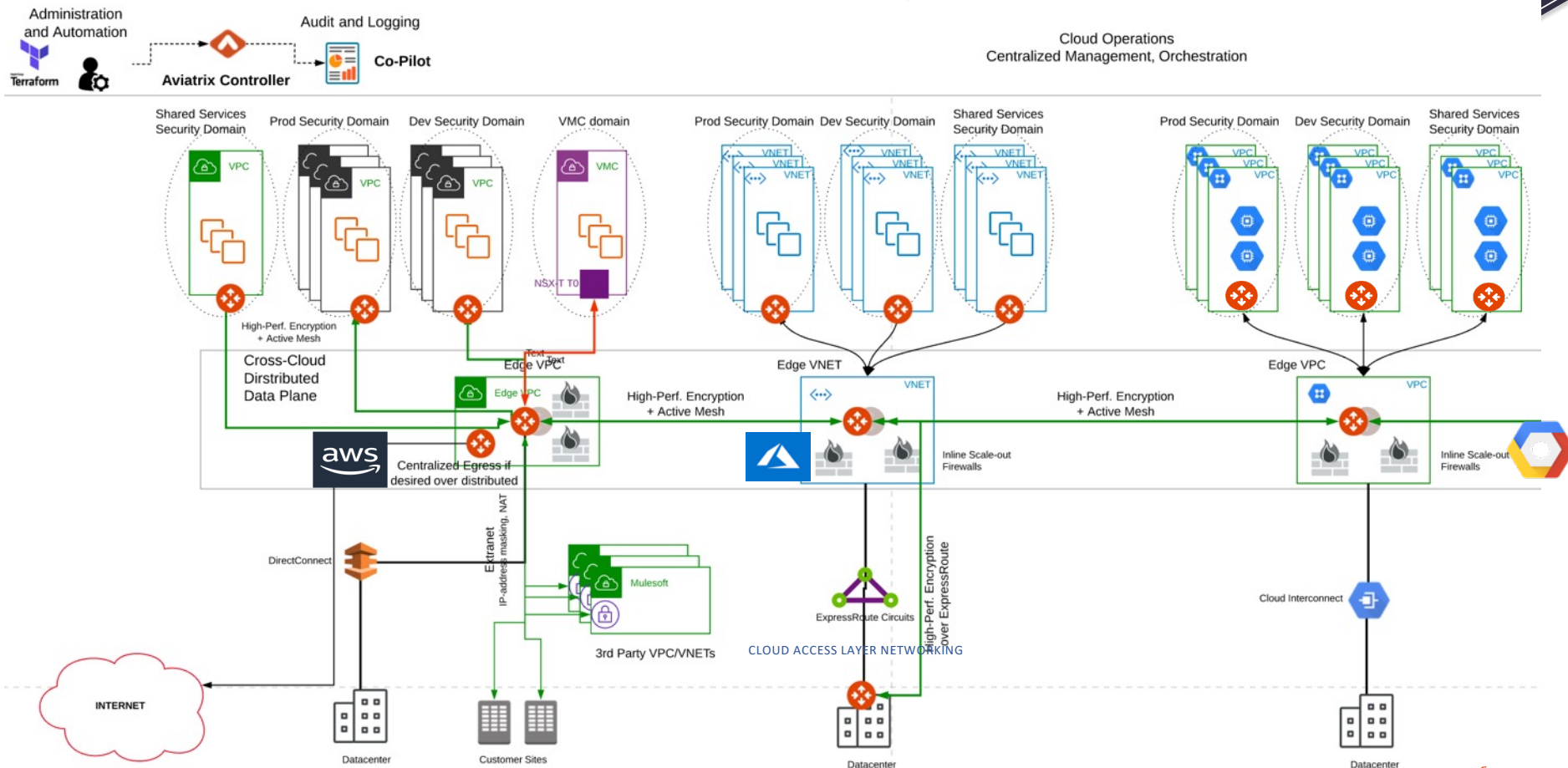


INTERNET

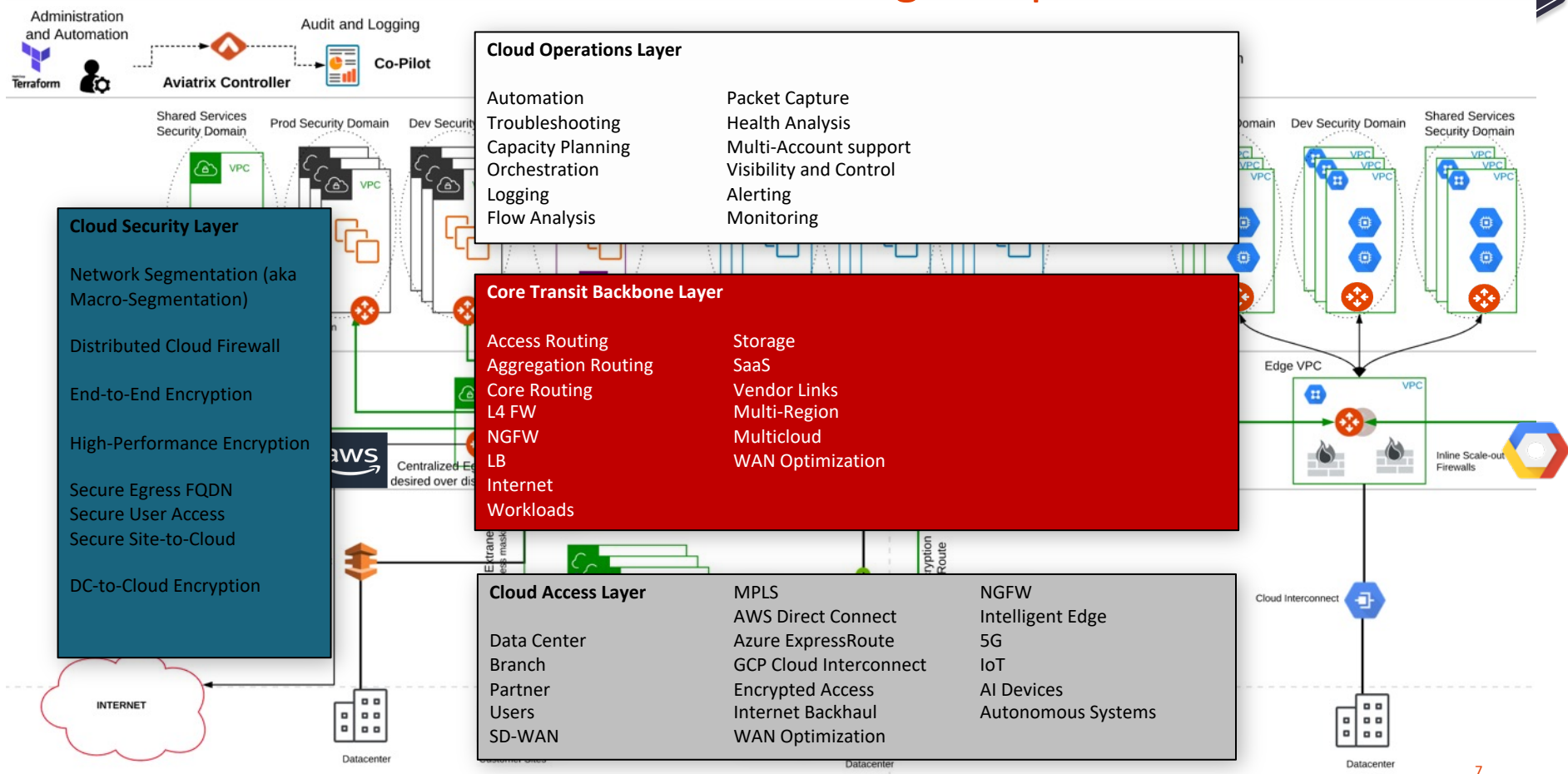


IoT

Result: Aviatrix Solution that Meets Design Requirements



Result: Aviatrix Solution that Meets Design Requirements





Next: Transit Networking