

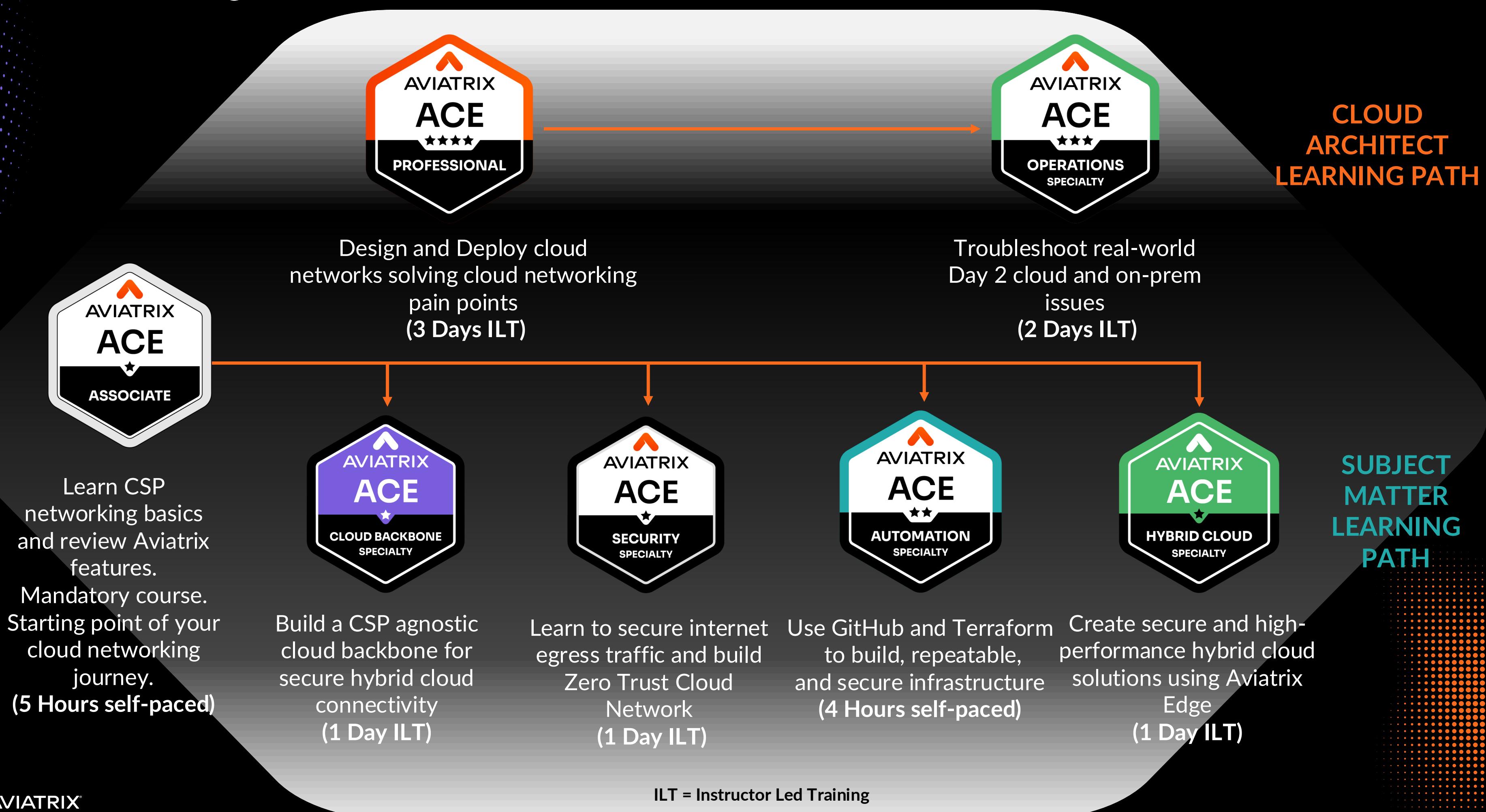


ACE Professional

ACE Team



ACE Learning Paths



ACE Team: the Trainer

- **Joe Amendolara** is a Senior Solutions Architect - ACE at Aviatrix, bringing a wealth of experience in network engineering and design. As a Cisco Certified Internetwork Expert (CCIEx4, HCIE), Joe possesses deep technical knowledge and expertise in advanced networking concepts.
- Prior to joining Aviatrix, Joe held significant positions at Orange Business Services as a Senior Infrastructure Integration Solution Consultant and at Huawei Technologies as an IP Solution Sales Manager. His experience also includes roles at Whirlpool Corporation and Dimension Data, where he honed his skills in network engineering and service delivery management.
- Joe's technical expertise spans various areas, including:
 - Multicloud Networking and Security
 - QoS and Multicast implementation
 - IPv6 solutions deployment
 - Cisco ACI (Application Centric Infrastructure)



<https://linkedin.com/in/joe-amendolara>

ACE Professional – Prerequisite and How to get certified

Prerequisite:

- ACE Associate

Certification Requirements:

To achieve certification, you must fulfil the following criteria:

1. Lab Completion: Successfully complete at least **80%** of the labs, which equates to approximately 9 out of 12 labs. An automated script will assess the completion status of each lab.

2. Course Attendance: Full attendance is mandatory. Missing any class session will be considered a "no-show" for the entire course.

3. Final Survey Completion: You are required to complete a brief final survey, which should take no more than 3 minutes.

- By adhering to these guidelines, you will be well on your way to obtaining your certification.

➤ **The certification will be issued approximately seven business days after the final day of training.**

The ACE Associate is a mandatory step

- You are welcome to attend the training, but the ACE Associate certificate is a must to get the ACE-Pro certificate.
- If after successfully finishing this training, should you proceed to attain ACE-Associate certification, kindly reach out to ace@aviatrix.com to request your ACE-Pro certificate.

It is a manual process and can take a minimum 5 business days

LAB POD Policy

- ❑ Attendance on Day 1 is required to retain the LAB POD.
- ❑ If attendance on Day 1 is missed, the LAB POD will be forfeited.
- ❑ Attendees arriving on Day 2 may participate in the training without the LAB POD and will not be awarded the ACE-Pro Certificate.



Warm-Up (very important)

<https://docs.aviatrixlab.com/ace-pro/docs/home.html>

The image shows two screenshots of the AVIATRIX ACE Professional Portal. The left screenshot displays the 'POD Portal' section, featuring a large badge with the AVIATRIX logo, the word 'ACE' in large letters, five stars, and the word 'PROFESSIONAL'. Below the badge, there is a 'Link' section with an access code '5RCY'. The right screenshot shows the main 'ACE Professional Portal' interface, which includes sections for 'Aviatrix CoPilot' (username: student, password: 322z5dFuzY#R3Dp), 'AWS' (username: student, password: 322z5dFuzY#R3Dp), and a 'Status' section listing various AWS and Azure resources.

POD Portal

Link

You can view your personal POD portal by clicking on the picture below.

- Access Code: **5RCY**

ACE Professional Portal

Giuseppe Amendolara Register New Class List Status

Auto (system default) Light Dark Logout

You have been assigned: Pod 1

Aviatrix CoPilot

Username: student
Password: 322z5dFuzY#R3Dp

AWS

Username: student
Password: 322z5dFuzY#R3Dp

Status

Username: student
Password: 322z5dFuzY#R3Dp

aws-us-east-1-spoke1-test1 > aws-us-east-1-spoke1-test2 > aws-us-east-2-spoke1-test1 >
aws-us-east-2-spoke1-test2 > azure-west-us-spoke1-test1 > azure-west-us-spoke2-test1 >
gcp-us-central1-spoke1-test1 > aws-strongswan-csr > onprem-pod1-edge >

Prerequisite, Expectations & How to get Certified

Prerequisite:

- ACE Associate is required. ACE Professional is highly recommended.

Expectations:

- The focus is on gaining familiarity with tools at your disposal for troubleshooting real-world Day 2 cloud issues. This is NOT a Build/Design training (please refer to the ACE PRO training).

How to get Certified:

1. Create Aviatrix ACE Academy Account: <https://ace.aviatrix.com>
2. A Subset of Aviatrix use cases will be discussed (these are meaningful use cases collected from real scenarios)
 - There are **8** Labs that you will have to complete (an automated script will evaluate the completion of all labs). PODs will be torn down as soon as the training has been completed.
3. Attend the entire course.
4. On day 2, you will work on another dedicated pod (i.e., "*Let's troubleshoot*" POD), where you will be presented with several failures. The objective is to identify and fix the failures using the Aviatrix platform tools.
5. Complete the Survey.

Certification will be then delivered after approximately seven business days!

- Recordings are not distributed, nevertheless, the slides will be shared

Agenda – Day 1

Topics	Approx. Duration	Start time
Welcome / Logistics / Agenda / Intro / Warm-Up	0:50	9:00 AM
CoPilot UI tour	1:00	9:50 AM
Break	0:15	10:50 AM
LAB 1: Create VPCs/VNet using CoPilot	0:30	11:05 AM
CNSF - Characteristics	0:20	11:35 AM
CNSF - Deployment	0:50	11:55 AM
Lunch Break	1:00	12:45 PM
LAB 2: CNSF	0:55	1:45 PM
Network Segmentation	0:30	2:40 PM
LAB 3: Network Segmentation	0:30	3:10 PM
Break	0:15	3:40 PM
High Performance Encryption - HPE	0:25	3:55 PM
Multi-Region / Multicloud ActiveMesh	0:40	4:20 AM
End		5:00 PM

Note: Schedule might change if modules are running longer than expected.

Agenda – Day 2

Topics	Approx. Duration	Start time
Day 1 Recap (Quiz)	0:20	9:00 AM
LAB 4: HPE with ActiveMesh	0:50	9:20 AM
Security	0:50	10:10 AM
Break	0:15	11:00 AM
LAB 5: Aviatrix Cloud Firewall	0:50	11:15 AM
Firewall Network - FireNet	0:45	12:05 PM
Lunch Break	1:00	12:50 PM
LAB 6: Firewall Network with PAN	0:55	1:50 PM
Site2Cloud	1:00	2:45 PM
Break	0:15	3:45 PM
LAB 7: Site2Cloud	0:30	4:00 PM
LAB 8: Aviatrix Edge	0:30	4:30 AM
END		5:00 PM

Note: Schedule might change if modules are running longer than expected.

Agenda – Day 3

Topics	Approx. Duration	Start time
Day 2 Recap (Quiz)	0:20	9:00 AM
ThreatIQ and CostIQ	0:20	9:20 AM
LAB 9 : Threat Prevention	0:30	9:40 AM
LAB 10 : CostIQ	0:20	10:10 AM
Distributed Cloud Firewall	0:50	10:40 AM
Break	0:15	11:30 AM
LAB 11: Distributed Cloud Firewall	1:15	11:45 AM
IaC and Network Insights API	0:20	1:00 PM
Lunch Break	1:00	1:20 PM
LAB 12: IaC and Network Insights API	0:25	2:20 PM
Design Exercise Recap	0:20	2:45 PM
Break	0:15	3:00 PM
Let's Design Together! (breakout rooms)	1:00	3:15 PM
Design Presentations	0:30	4:15 PM
Survey + Closing	0:15	4:45 PM
End		5:00 PM

Note: Schedule might change if modules are running longer than expected.



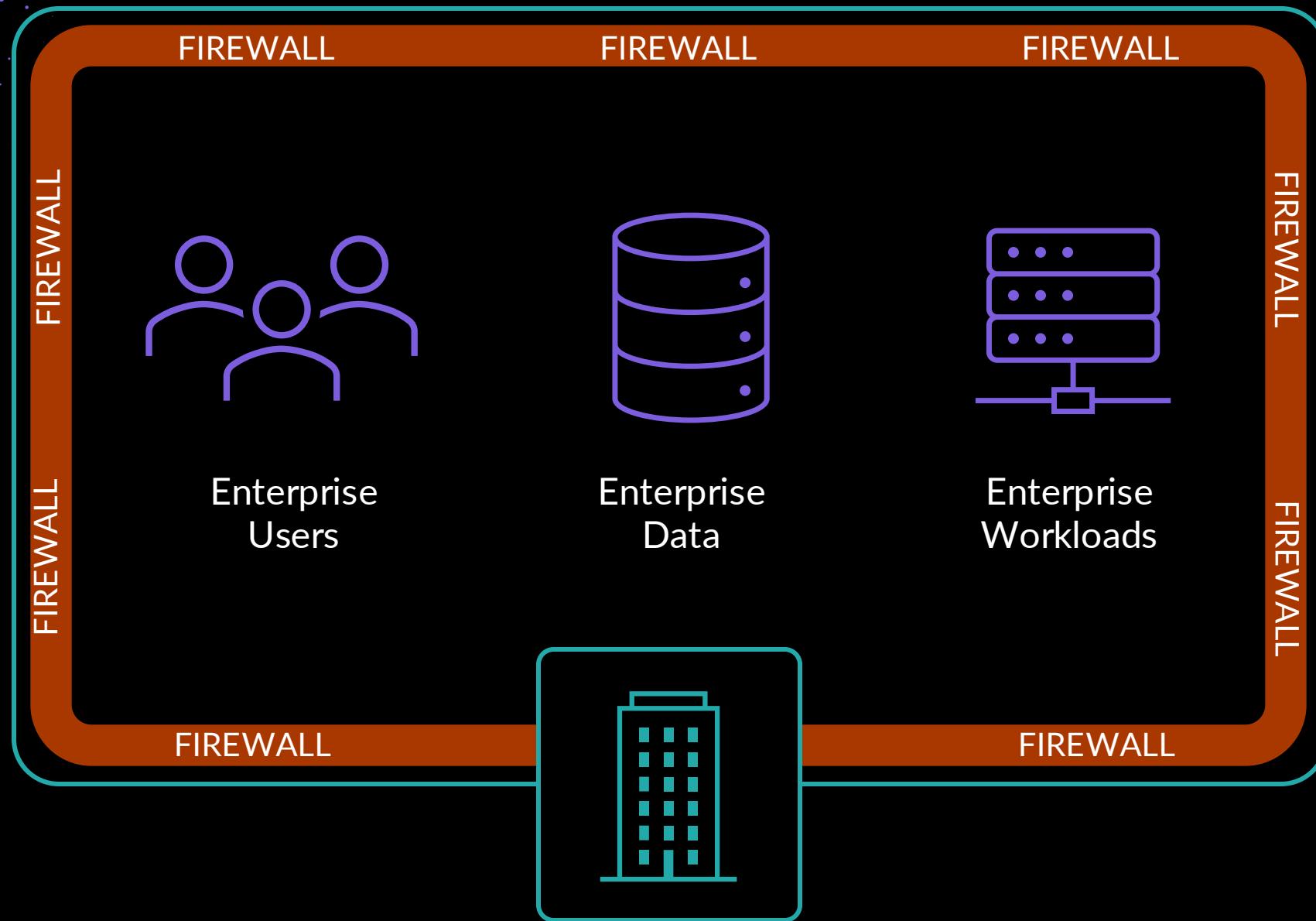
Who we are? What we do?

The Cloud Security Challenge

SECURING THE NEW ATOMIZED CLOUD PERIMETER

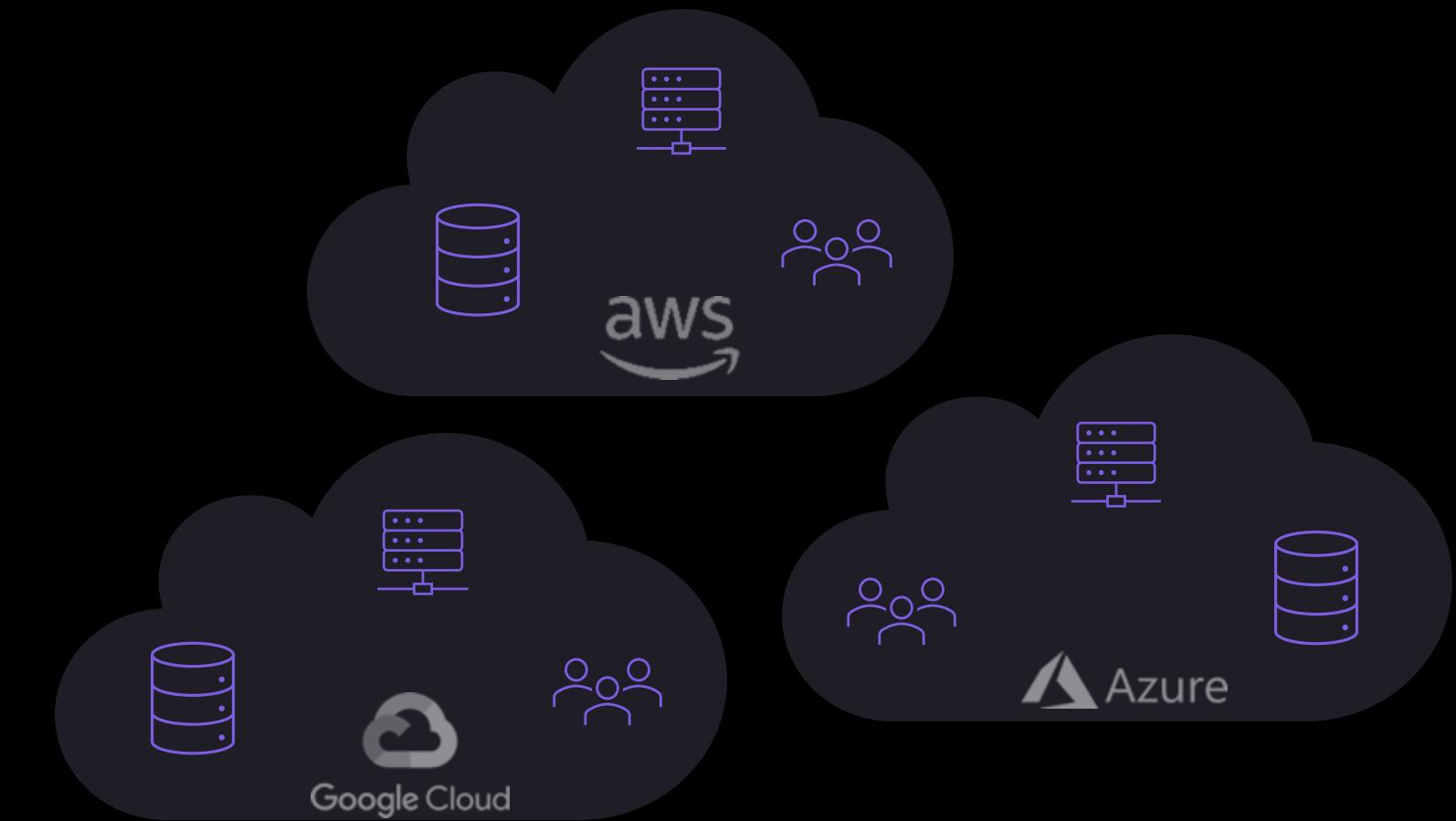
The Enterprise Network

A physical building with a cable to the Internet



The Cloud Network

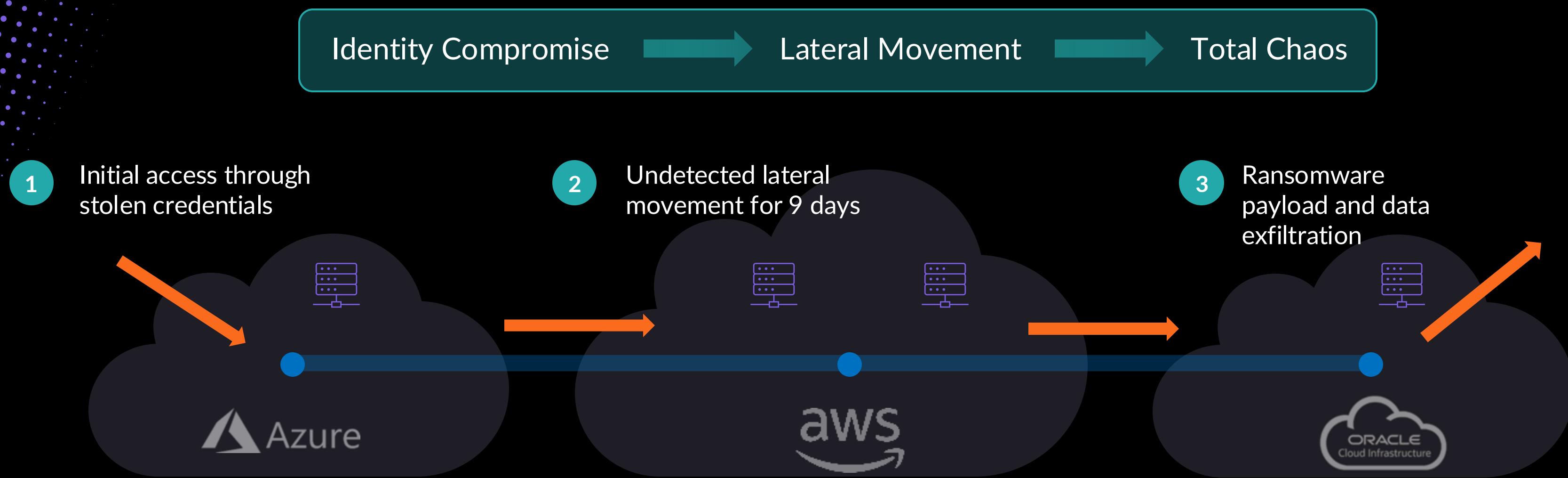
A highly dynamic and distributed environment



The New Perimeter
Every Virtual Private Cloud (VPC), Kubernetes cluster, serverless function, PaaS service, and API endpoint

Anatomy of Today's Threats

RECENT SUCCESSFUL ATTACKS ARE FOLLOWING THE SAME PATTERNS



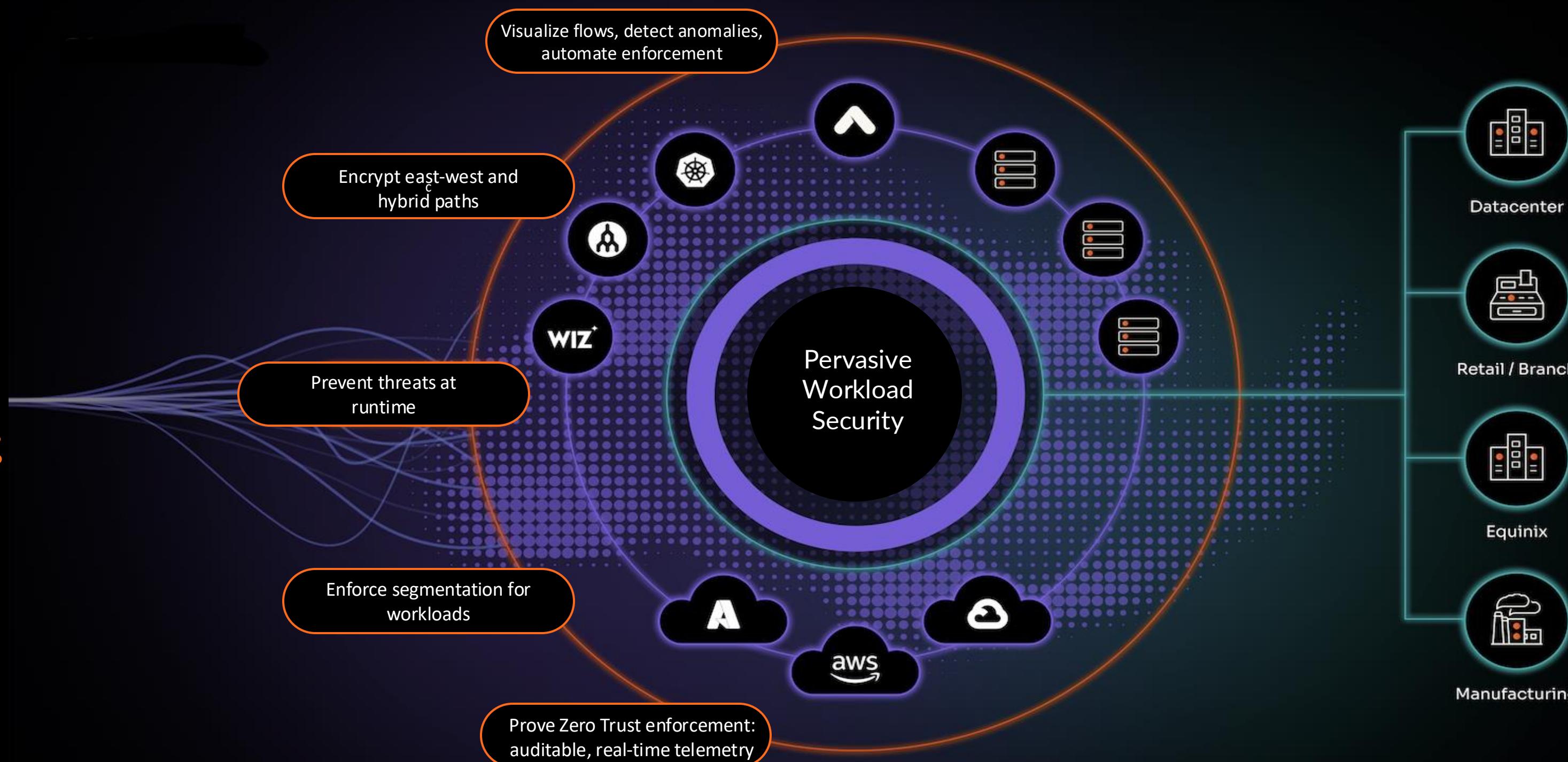
UHG Operational Disruption and Impact

- \$22M ransom paid in Bitcoin – yet stolen data remains in the hands of threat actors, signaling a failed containment
- 190 million Americans exposed, including full identity profiles (names, DOBs, SSNs, driver's license numbers) – the largest healthcare breach in U.S. history
- Nationwide halt in claims processing disrupted patient care and provider payments for weeks – forcing Congressional intervention and federal investigation
- \$3.96B in damages reported – including \$3.09B in remediation and \$867M in operational losses, with long-tail legal and reputational fallout still unfolding

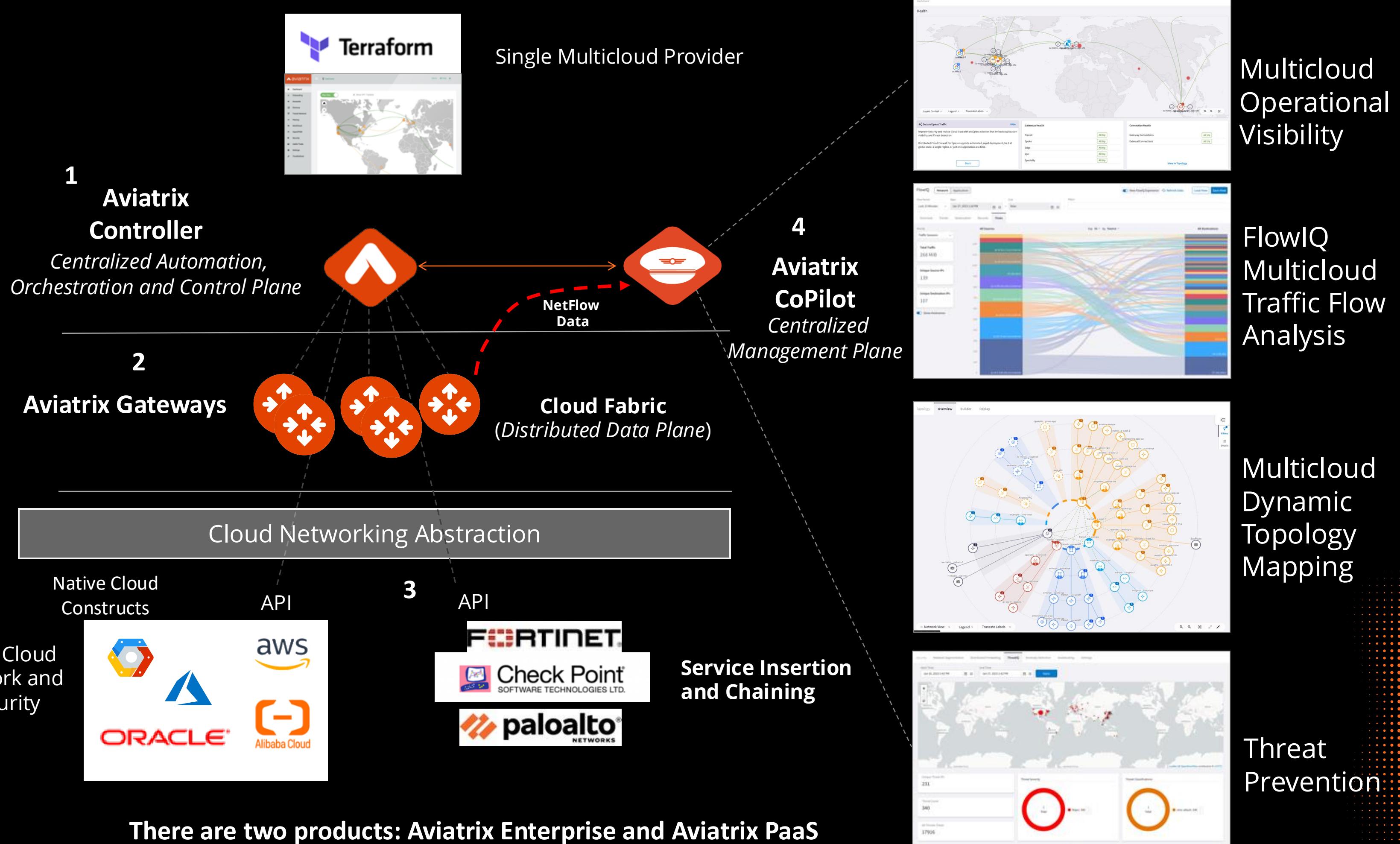
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The Solution – “Security From The Inside Out”

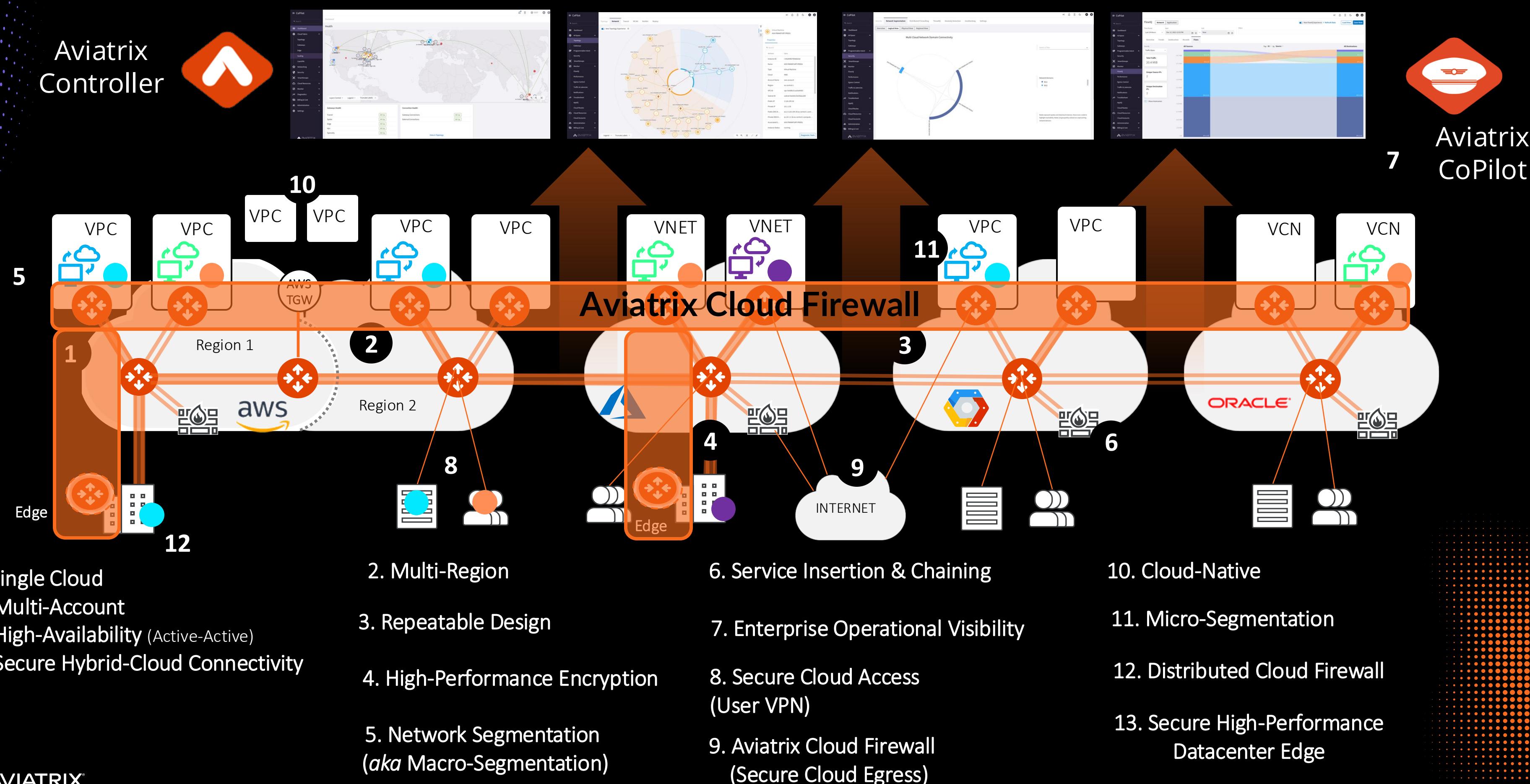
CLOUD NATIVE SECURITY: EMBEDDED, NOT BOLTED ON



CNSF (Enterprise)



CNSF – Logical View





Next: Walkthrough of CoPilot UI

