



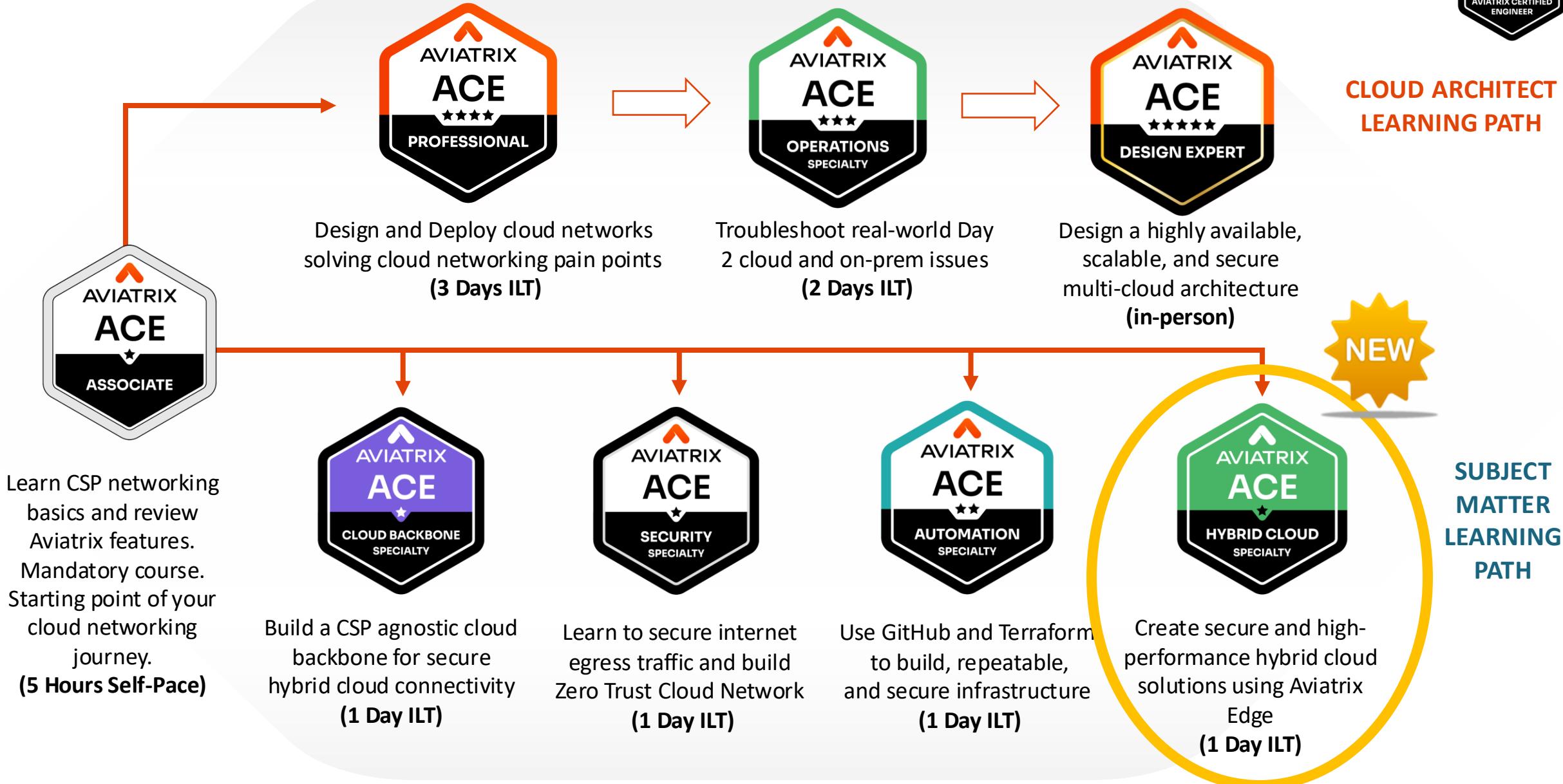
ACE Professional

DAY 1

ACE Team



ACE Learning Paths





Joe Amendolara

Joe Amendolara serves as a Senior Solutions Architect - ACE at Aviatrix, where he brings a wealth of expertise in network engineering and design. As a Cisco Certified Internetwork Expert (*CCIE*), he possesses profound technical knowledge and mastery of advanced networking concepts.

Before joining Aviatrix, Joe held prominent roles at Orange Business Services as a Senior Infrastructure Integration Solution Consultant and at Huawei Technologies as an IP Solution Sales Manager. His extensive experience also includes key positions at Whirlpool Corporation and Dimension Data, where he refined his skills in network engineering and service delivery management.



Joe's technical acumen encompasses a diverse range of areas, including:

- ❑ Multicloud Networking and Security
- ❑ QoS and Multicast Implementation
- ❑ IPv6 Solutions Deployment
- ❑ Cisco ACI (Application Centric Infrastructure)

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

Rizwan Jamal

Rizwan Jamal is highly experienced Senior Solutions Architecture at Aviatrix. He is an expert on hybrid and public cloud networking

With over 25 years of experience in the technology sector, Rizwan has established himself as SME in Cloud Computing, Datacenters and Colocation networking services.

His past career highlights include:

- Principal Network Architect at Equinix, where he was responsible for global network architecture and engineering, introducing innovative solutions like Intent-based Programmable Network for Equinix Interconnection services.
- Senior Service Engineer at Microsoft, where he was a senior member of the NIS design team, developing scalable and cost-effective network designs for Microsoft's internal datacenters and worldwide network.
- Network Consulting Engineer at Cisco, where he was responsible for designing and building core networking for large enterprises and telcos such as Bell Canada.



<https://linkedin.com/in/rizwan-j-35429723>



John Smoker

John Smoker is a Principal Solutions Architect - ACE at Aviatrix, bringing a wealth of experience in infrastructure architecture, DevOps, and systems engineering. With a proven track record in the information technology, financial services, and hospitality industries, John is a seasoned technology professional skilled in infrastructure, networking, requirements analysis, enterprise architecture, and agile methodologies.

Prior to joining Aviatrix, John held key positions in various orgs.

- At Vacasa, as a Senior DevOps Engineer, he unified 80+ VPCs using AWS Transit Gateway and implemented Aviatrix gateways for enhanced visibility and security, resulting in significant cost savings.
- At Fiserv, he served as an Infrastructure Architect, designing solutions for digital banking products and providing technical leadership across project teams.



John leverages his extensive background to educate and guide professionals in cloud networking solutions. His expertise spans:

- Cloud network design and implementation
- Infrastructure as Code (IaC) and automation
- Security and compliance in cloud environments
- Multi-cloud and hybrid cloud architectures

<https://www.linkedin.com/in/johnsmoker>



Attendee Intro:

Prior Networking Experience?
Cloud Experience?
Aviatrix Experience?



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 later!



ACE Associate is must to get certification

- 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

- LAB POD will be destroyed if a person doesn't show up on day1
- If a person shows up on day2, they can attend the training without the LAB POD
- They will not be issued ACE-Pro Cert



Warm-Up (very important!)

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

The image shows two screenshots of the Aviatrix POD Portal. The left screenshot displays a large "AVIATRIX ACE PROFESSIONAL" badge with five stars. The right screenshot shows the "ACE Professional Portal" interface with sections for "Aviatrix CoPilot" and "AWS", both listing a user named "student" with assigned credentials. Below these are links to various cloud environments like AWS regions and Azure, and an on-premises setup.

Left Screenshot (POD Portal):

- Welcome to ACE Professional Lab
- POD Portal
- Lab 1 - VPCs/VNets CREATION
- Lab 2 - TRANSIT NETWORKING
- Lab 3 - NETWORK SEGMENTATION
- Lab 4 - HPE WITH ACTIVE MESH
- Lab 5 - AVIATRIX CLOUD FIREWALL (with Secure Egress)
- Lab 6 - FIRENET
- Lab 7 - SITE2CLOUD
- Lab 8 - SECURE HIGH-PERFORMANCE DATACENTER EDGE
- Lab 9 - THREAT PREVENTION
- Lab 10 - COSTIQ
- Lab 11 - DISTRIBUTED CLOUD FIREWALL
- Lab 12 - IAC & NETWORK INSIGHTS API
- LOGOS-ICONS
- PDFs

Right Screenshot (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
- Open Copilot >
- AWS Console >
- Status
- 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 >



Agenda – ACE PRO 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
MultiCloud Network Architecture (MCNA)	0:20	11:35 AM
Transit Networking	0:50	11:55 AM
Lunch Break	1:00	12:45 PM
LAB 2: (MCNA) Transit Networking	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

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

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	0:35	9:40 AM
LAB 10 : CostIQ	0.10	10:15 AM
Distributed Cloud Firewall	0:50	10:25 AM
Break	0:15	11:15 AM
LAB 11: Distributed Cloud Firewall	1:15	11:30 AM
IaC and Network Insights API	0:20	12:45 AM
Lunch Break	1:00	1:05 PM
LAB 12: IaC and Network Insights API	0:25	2:05 PM
User VPN	0:20	2:30 PM
Design Exercise Recap	0:20	2:50 PM
Break	0:15	3:10 PM
Let's Design Together! (breakout rooms)	1:00	3:25 PM
Design Presentations	0:25	4:25 PM
Survey + Closing	0:10	4:50 PM
End		5:00 PM



Who we are? What we do?

Aviatrix: Pioneering Cloud-Native Network Security Fabric

Aviatrix has revolutionized cloud security by creating the innovative **Cloud-Native Network Security Fabric**. This groundbreaking approach seamlessly integrates networking and security across multi-cloud environments, providing organizations with unprecedented control and visibility.

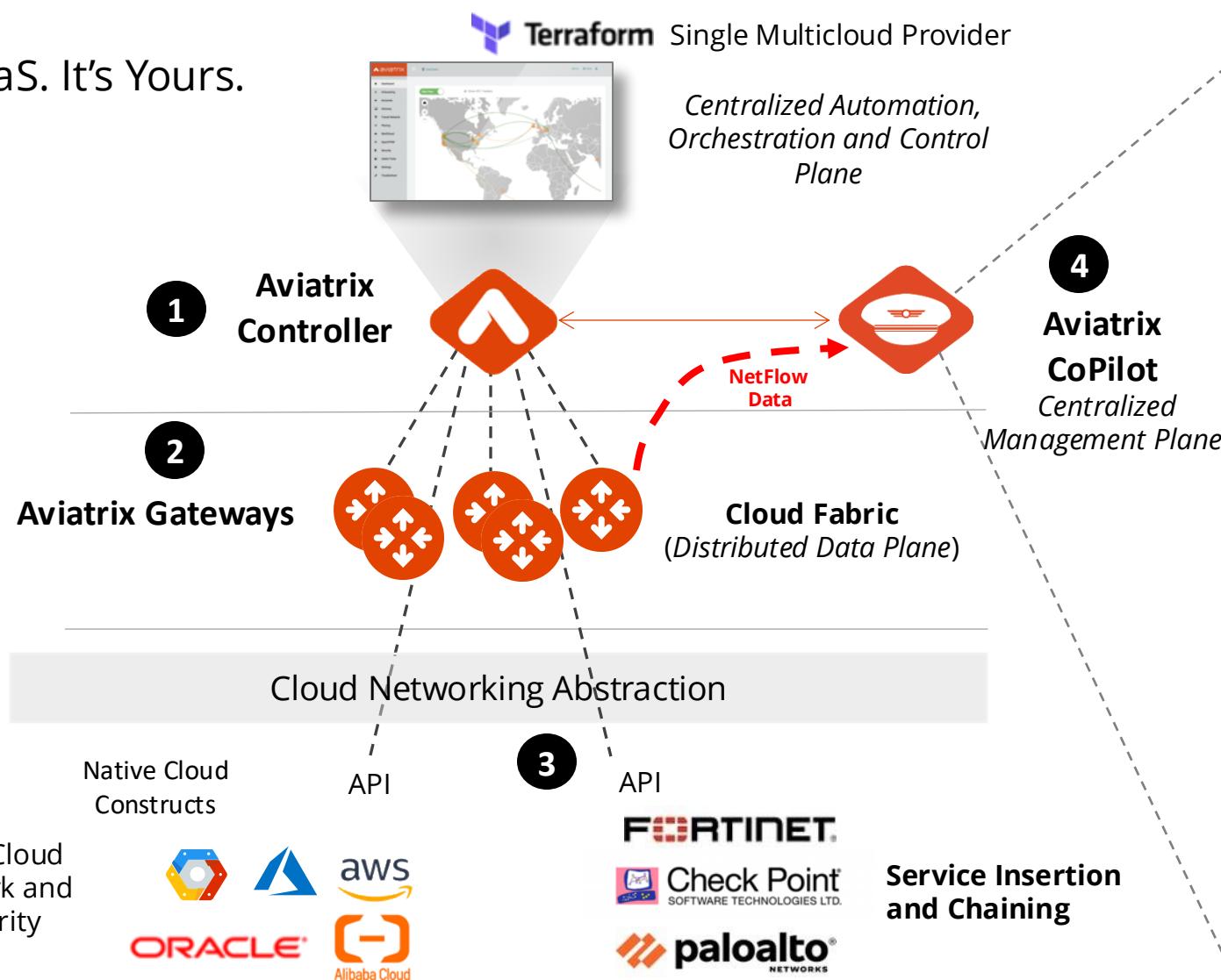
By reimagining how cloud networks should function from the ground up, Aviatrix delivers a comprehensive solution that addresses the unique challenges faced by modern enterprises operating in dynamic cloud ecosystems.



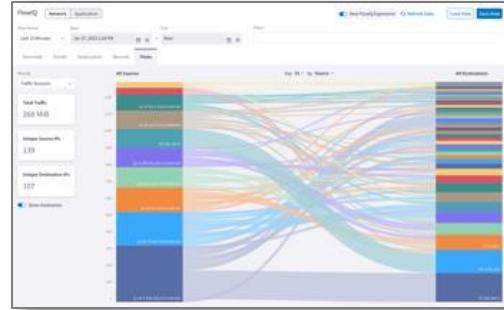


Aviatrix Cloud Network Platform Software

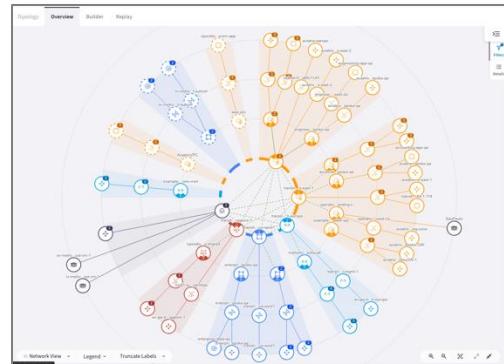
Not a SaaS. It's Yours.



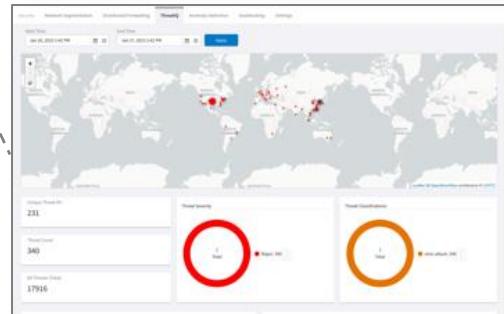
Multicloud Operational Visibility



FlowIQ Multicloud Traffic Flow Analysis



Multicloud Dynamic Topology Mapping

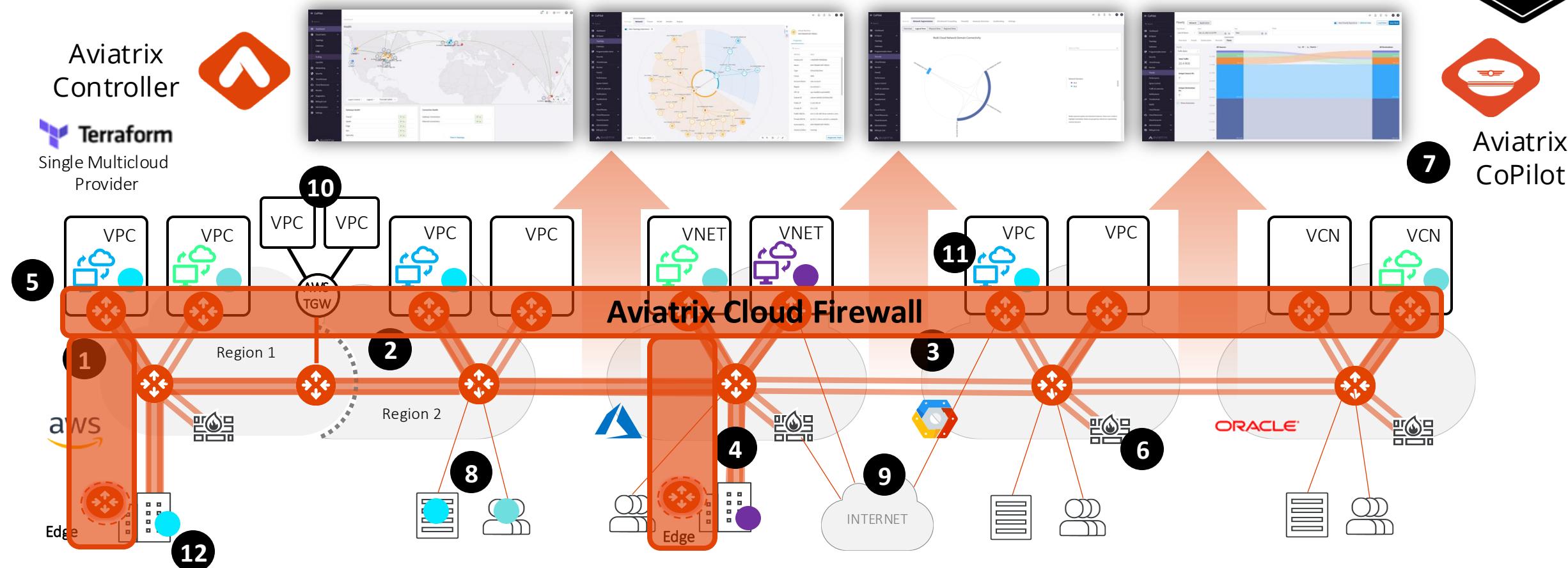


ThreatIQ

Aviatrix – Foundation of Your Multicloud Networking and Security



Aviatrix
CoPilot



 Abbott	abbvie	 Adobe	 Aflac.	 ABInBev	 APPTIO®		 AVIS® Budget	 BAKER HUGHES a GE company	 BankUnited
 BHP	 Biogen.	 BNY MELLON	 CHOICE HOTELS	 CENTENE® Corporation	 CHANGE HEALTHCARE	 chewy.com	 CHS	 Constellation Brands	 covetrus
 Cummins	 DELL	 dōTERRA	 DXC TECHNOLOGY	 e-on	 FACTSET	 U.S. DEPARTMENT OF HOMELAND SECURITY FEMA	 Ford	 Genworth	 GN
 GUIDEWIRE	 Heineken®	 Home Office	 IHG®	 Informatica	 inmarsat	 Johnson Controls	 Jefferies	 Lufthansa Systems	 lululemon
 LG	 Mercedes-Benz	 NASA	 navitaire an amadeus company	 ni	 NIKE	 PACCAR	 pwc	 Raytheon Technologies	 RheinEnergie
 Roche	 salesforce	 SIEMENS	 splunk>	 Takeda	 THALES	 UNITED AIRLINES	 VERINT.	 Wix	 YARA





Next: Walkthrough of CoPilot UI