



ACE Professional

DAY 1

ACE Solutions Architecture Team



Shahzad Ali

Shahzad Ali is Vice President of Solutions Architecture at Aviatrix. He is an expert on private and public cloud networking and coined the Multicloud Network Architecture (MCNA).

He is also a co-founder and content lead for the Aviatrix Certified Engineer (ACE) Program, the industry's first multicloud networking certification.

Shahzad previously led the Solutions Architecture team at VMware, where his team played a crucial role in growing VMware's NSX business.

Before that, he spent over a decade in technical and leadership roles at Cisco Systems.



<https://linkedin.com/in/shahzadNET>

<https://youtube.com/netJoins>

<https://netJoins.com>



Attendee Intro:

Prior Networking Experience?
Cloud Experience?
Aviatrix Experience?

ACE Multicloud Networking Learning Paths

The industry's first and only multicloud networking certification

<https://aviatrix.com/ace/>



Standard Learning Path



6 Hours
Learn CSP networking basics and review Aviatrix features



3 Days
Deploy proven design patterns for a multicloud network architecture



Weeks
Design a highly available, scalable, and secure multicloud architecture

Optional Specialty Trainings



4 Hours
Use IaC tools to build, enhance, and secure infrastructure



5 Hours
Use the Aviatrix backbone to build hybrid connections



16 Hours
Troubleshoot real-world Day 2 cloud issues



5 Hours
How to secure the network deployed inside the cloud



ACE Professional – Prerequisite and How to get certified

Prerequisite:

- ACE Associate

How to get certified:

1. It is necessary to complete at least **80%** of all Labs (~11 Labs!)
 - The automated script will evaluate the completion of each lab
2. Attend the entire course
 - You are expected to attend all class sessions. If you miss one day, it will be regarded as a “no-show” for the whole course.
3. Complete the final Survey.
 - It will take not more than 3 minutes

Certification will be then delivered after approximately seven business days!



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

Agenda – Day 1



Topics	Approx. Duration	Start time
Welcome / Logistics / Agenda / Intro	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	0:40	10:10 AM
Break	0:15	10:50 AM
LAB 5: Secure Cloud Egress	0:50	11:05 AM
Firewall Network - FireNet	0:45	11:55 AM
Lunch Break	1:00	12:40 PM
LAB 6: Firewall Network with PAN	0:55	1:40 PM
Site2Cloud	1:00	2:35 PM
User VPN	0:20	3:35AM
Break	0:15	3:55 PM
LAB 7: Site2Cloud	0:30	4:10 PM
LAB 8: Aviatrix Edge	0:20	4:40 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: ThreatIQ and CostIQ	0:30	9:40 AM
Distributed Cloud Firewall	0:50	10:10 AM
Break	0:15	11:00 AM
LAB 10: Distributed Cloud Firewall	1:15	11:15 AM
laC and Network Insights API	0:20	12:30 AM
Lunch Break	1:00	12:50 PM
LAB 11: laC and Network Insights API	0:35	1:50 AM
Role-Based Access Control - RBAC	0:20	2:25 AM
Design Exercise Recap	0:25	2:45 PM
Break	0:10	3:10 PM
Let's Design Together! (breakout rooms)	1:00	3:20 PM
Design Presentations	0:30	4:20 PM
Survey + Closing	0:10	4:50 PM
End		5:00 PM



Who we are? What we do?

Aviatrix Cloud Network Platform Software

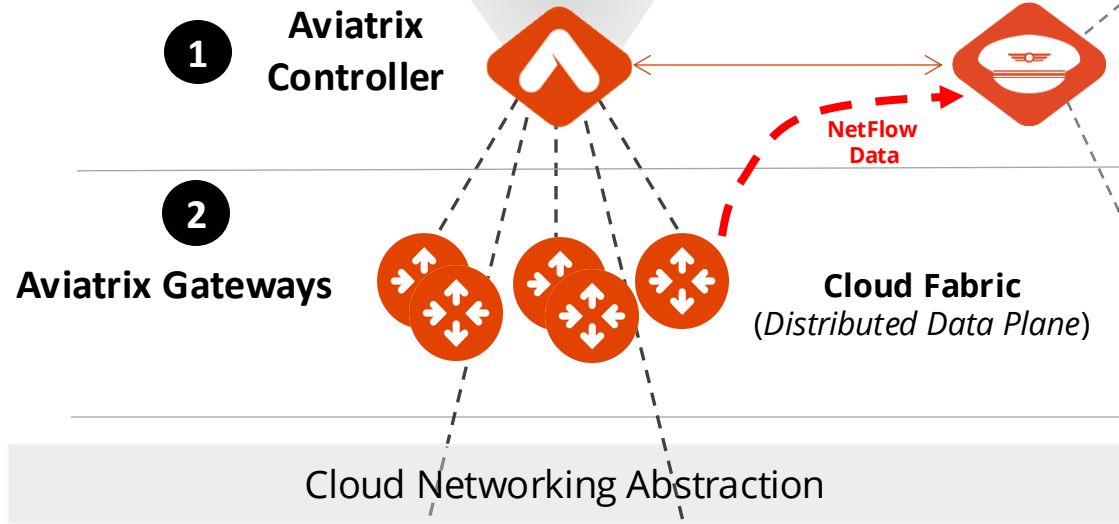


Not a SaaS or Managed Service. It's Yours.

Terraform Single Multicloud Provider



Centralized Automation, Orchestration and Control Plane



Native Cloud Constructs

API

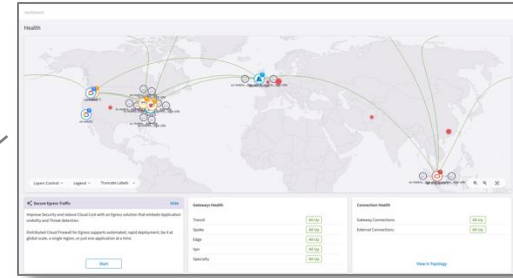
3

API

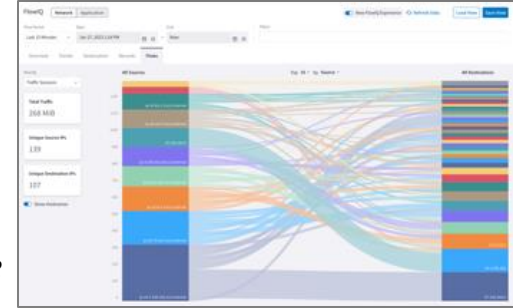
Basic Cloud Network and Security



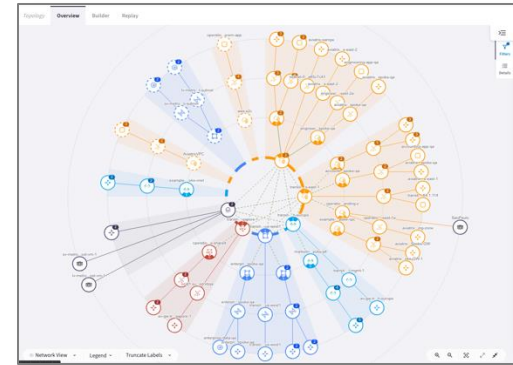
Service Insertion and Chaining



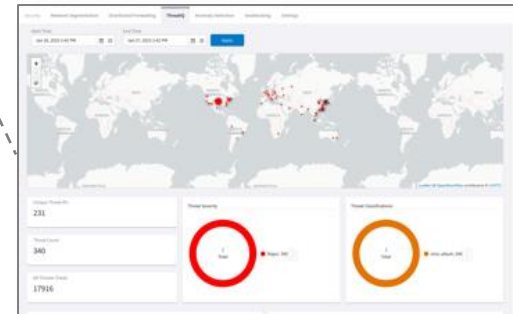
Multicloud Operational Visibility



FlowIQ Multicloud Traffic Flow Analysis



Multicloud Dynamic Topology Mapping

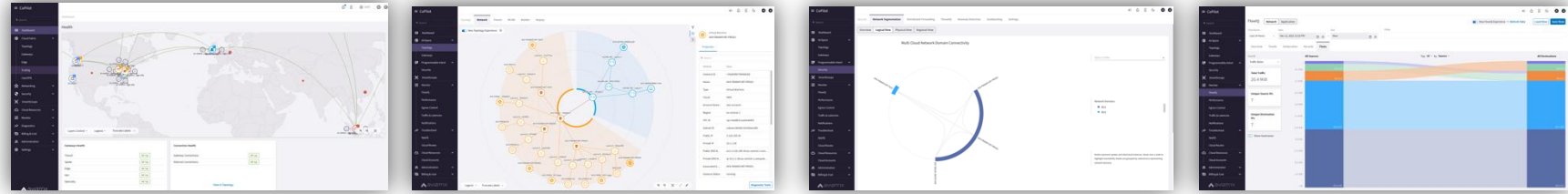


ThreatIQ

Aviatrix – Foundation of Your Multicloud Networking and Security



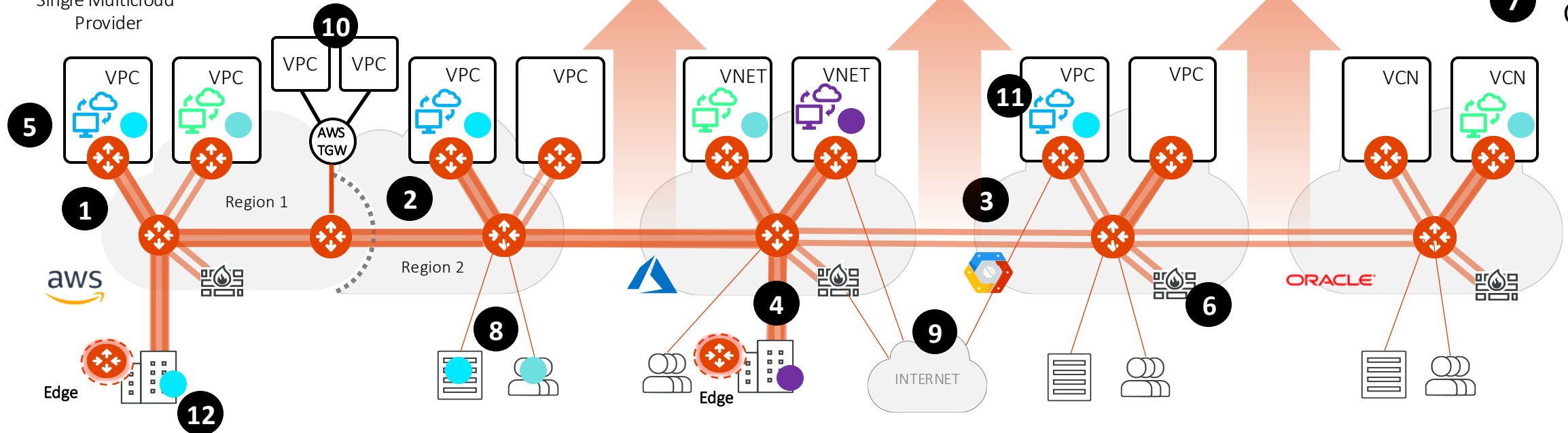
Aviatrix Controller



Terraform
Single Multicloud Provider



Aviatrix CoPilot



1. Single Cloud Multi-Account High-Availability (Active-Active) Secure Hybrid-Cloud Connectivity

2. Multi-Region

3. Repeatable Design

4. High-Performance Encryption

5. Network Segmentation

6. Service Insertion & Chaining

7. Enterprise Operational Visibility

8. Secure Cloud Access

9. Secure Cloud Egress

10. Cloud-Native

11. Distributed Cloud Firewall

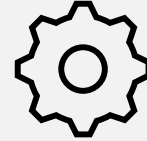
12. Secure High-Performance Datacenter Edge

 Abbott	 abbvie	 Adobe	 Affac	 ABInBev	 APPTIO		 AVIS Budget	 BAKER HUGHES a GE company	
 BHP	 Biogen	 BNY MELLON	 CHOICE HOTELS	 CENTENE Corporation	 CHANGE HEALTHCARE			 Constellation Brands	
		 dōTERRA	 DXC TECHNOLOGY		 FACTSET	 FEMA		 Genworth	
 GUIDEWIRE	 Heineken	 Home Office	 IHG	 Informatica	 inmarsat	 Johnson Controls	Jefferies	 Lufthansa Systems	 lululemon
 LG	 Mercedes-Benz		 navitaire an amadeus company			PACCAR	 pwc	 Raytheon Technologies	
 Roche	 salesforce	SIEMENS	 splunk		THALES	 UNITED AIRLINES	VERINT	WIX	



aviatrix

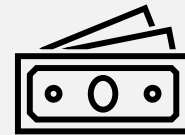
Secure Cloud Networking



**Simplify
Operations**



**Improve
Security**



**Reduce
Costs**



Next: Walkthrough of CoPilot UI