

ACE Professional

DAY 1

Aviatrix ACE Technical Team

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

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



4 Hours
Use the Aviatrix
backbone to build
hybrid connections



16 Hours
Troubleshoot
real-world Day
2 cloud issues



4 Hours
How to secure
the network
deployed inside
the cloud



ACE Professional – Prerequisite and How to get certified

ACE Aviatrix Certified Engineer

Prerequisite:

ACE Associate

How to get certified:

- 1. It is necessary to complete at least **80%** of all Labs (~10 Labs!)
 - > The automated script will evaluate the completion of each lab
- 2. Attend the entire course
 - > You are expected to attend all class sessions. Whether you miss one day, it will be regarded as a "no-show" for the whole course.
- Complete the final Survey.
 - It will take not more than 3 minutes

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 CET
Welcome / Logistics / Agenda / Intro	1:00	9:00 AM
Break	0:15	10:00 AM
CoPilot UI tour	0:50	10:15 AM
Knowledge Check: Design exercise	0:10	11:05 AM
LAB 1: Create VPCs/VNet using Aviatrix CoPilot	0:30	11:15 AM
Break	0:15	11:45 AM
Multicloud Network Architecture (MCNA)	0:20	12:00 AM
Transit Networking	0:50	12:20 PM
Lunch Break	1:00	1:10 PM
LAB 2: (MCNA) Transit Networking	0:50	2:10 PM
Network Segmentation	0:50	3:00 PM
LAB 3: Network Segmentation	0:30	3:50 PM
Break	0:15	4:20 PM
Role-Based Access Control - RBAC	0:10	4:35 PM
LAB 4: RBAC	0:15	4:45 PM
End		5:00 PM

Meet the Trainer



Joe AmendolaraSenior Solutions Architect, Aviatrix

Past: Whirlpool, Huawei, Orange linkedin.com/in/joe-amendolara

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



Agenda – Day 2



Topics	Approx. Duration	Start time CET
Day 1 Recap (Quiz)	0:20	9:00 AM
High Performance Encryption - HPE	0:25	9:20 AM
Multi-Region /Multicloud ActiveMesh	0:50	9:45 AM
Break	0:15	10:35 AM
LAB 5: HPE with ActiveMesh	0:50	10:50 AM
Security	0:40	11:40 AM
Lunch Break	1:00	12:20 PM
LAB 6: Egress	0:45	1:20 PM
Firewall Network - FireNet	1:00	2:05 PM
LAB 7: Firewall Network with PAN	0:40	3:05 PM
Break	0:15	3:45 PM
Site2Cloud	1:00	4:00 PM
END		5:00 PM

Meet the Trainer



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



Agenda – Day 3



Topics	Approx. Duration	Start time CET
Day 2 Recap (Quiz)	0:15	9:00 AM
LAB 8: Site2Cloud Overlapping IP Connectivity	0:45	9:20 AM
ThreatIQ and ThreatGuard	0:15	9:5 AM
LAB 9: ThreatIQ and ThreatGuard	0:30	10:10 AM
Break	0:15	10:40 AM
Distributed Cloud Firewall	0:50	10:55 AM
LAB 10: Distributed Cloud Firewall	0:50	11:45 AM
User VPN	0:20	12:40 PM
Lunch Break	1:00	1:00 PM
Operations	0:30	2:00 PM
Design Exercise recap	0:30	2:30 PM
Break	0:15	3:00 PM
Let's Design Together! (breakout rooms)	1:00	3:15 PM
Design Presentations	0:40	4:15 PM
Survey	0:05	4:45 PM
End		5:00 PM

Meet the Trainer



Joe Amendolara
Senior Solutions Architect, Aviatrix

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What is Aviatrix?



Business-Critical Applications Require Business-Critical Infrastructure

APPS 🎇 DATADOG Workload & Performance Mgt Software **Advanced Cloud** Infrastructure *****snowflake Data & Analytics Software (H) HashiCorp **Automation Software** Networking & Security Software ▲ aviatrix aws Azure Alibaba Cloud Google Cloud • • •

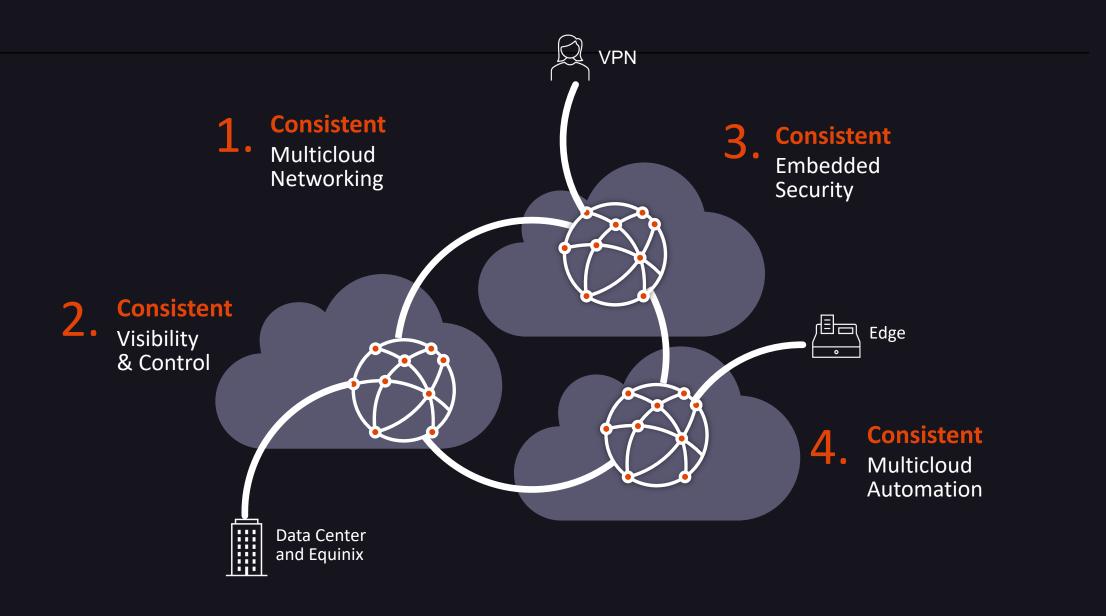
▲ aviatrix
Secure Cloud
Networking™



What is it?

Aviatrix Upgrades Native Cloud aws ORACLE Networking Cloud Infrastructure Azure Alibaba Cloud Google Cloud





Top Pains Aviatrix Relieves – What's Yours?

Multicloud Networking

- Overlapping IP CIDRs, Overlay IP (SAP/AWS)
- Multicloud Automated Route Propagation
- BGP Into Cloud / Traffic Engineering
- Extending Cloud Ops Model to Edge / Equinix

2. Operational Visibility & Control

- Network Flow Analytics
- Dynamic Topology Mapping
- Packet Capture, Ping, Traceroute
- CostIQ Shared Services Cost Allocation

3. Security Risks and Costs

- Distributed Firewalling IN the network
- High-Performance Encryption (up to 100 Gbps)
- NGFW Service Insertion
- Automated Threat Detection and Mitigation

4. Multicloud Simplicity, Agility, Speed

- Beyond Native Cloud Connectivity
- IN the cloud, not just TO the cloud
- Multicloud Terraform Provider
- Self-Service Portal e.g. ServiceNow

SAP Migrations | Customer Onboarding | Acquisition Integrations | Skills Shortage | Resource Efficiency



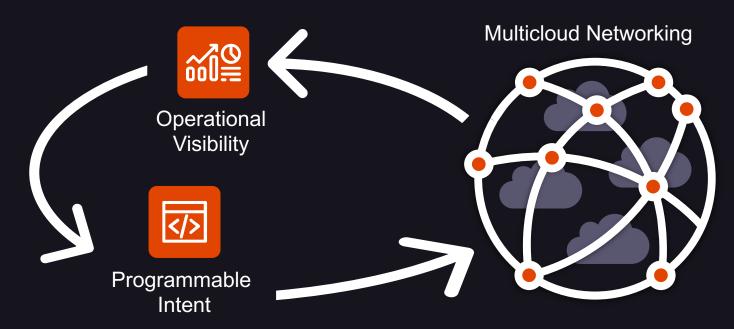
What Makes
Aviatrix
Unique?



Aviatrix Cloud Networking Platform

Secure Cloud Networking

optimizes business-critical application availability, performance, security, and cost.



Embedded Telemetry and Distributed Control

Aviatrix CoPilot™

Aviatrix Cloud Fabric



Aviatrix AirSpace | Distributed Data Plane

Embedded Telemetry

See Everything

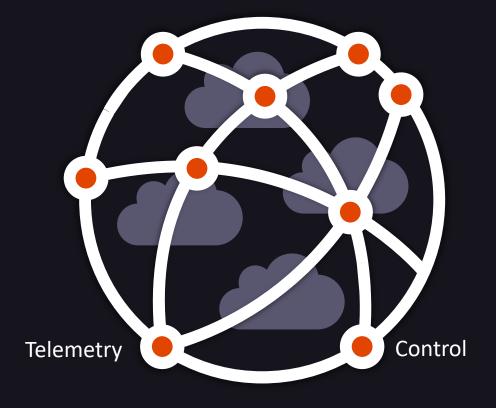
- Network Traffic Telemetry
- Security Telemetry
- Cost Telemetry
- Application Telemetry

Distributed Control

Control Everything

- Distributed Firewalling
- Intelligent Traffic Control

Aviatrix Cloud Fabric





Aviatrix CoPilot | Programmable Intent

IF < DEFINED TRAFFIC IS SEEN >
THEN < EXECUTE INTENDED ACTION >

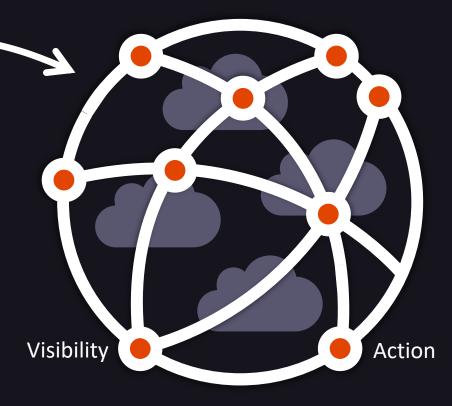
Security Actions

- Block or Allow
- Network Segmentation
- Micro Segmentation
- Domain Name Filtering
- Threat Detection and Mitigation
- Anomaly Detection

Traffic Control Actions

- Optimize Path
- Low-Cost Path
- High-Performance Path
- Packet Capture
- Log for Audit
- Direct to Honey Pot









Aviatrix Solution Components



Aviatrix Cloud Network Platform Software

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





Multicloud Operational Visibility ACE

Aviatrix Certified Engineer



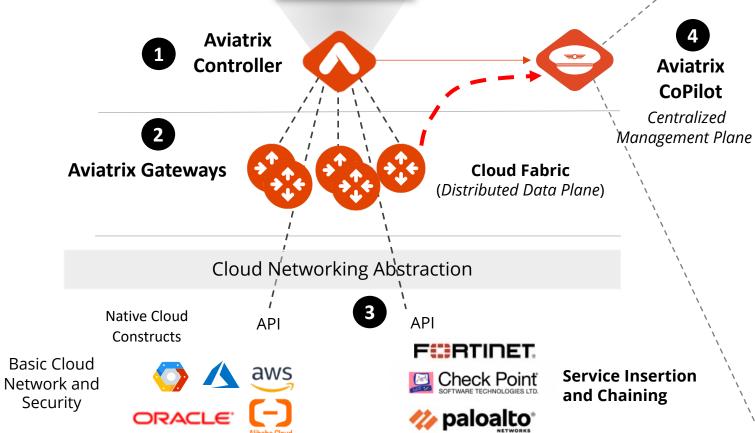
FlowIQ Multicloud Traffic Flow Analysis



Multicloud Dynamic Topology Mapping

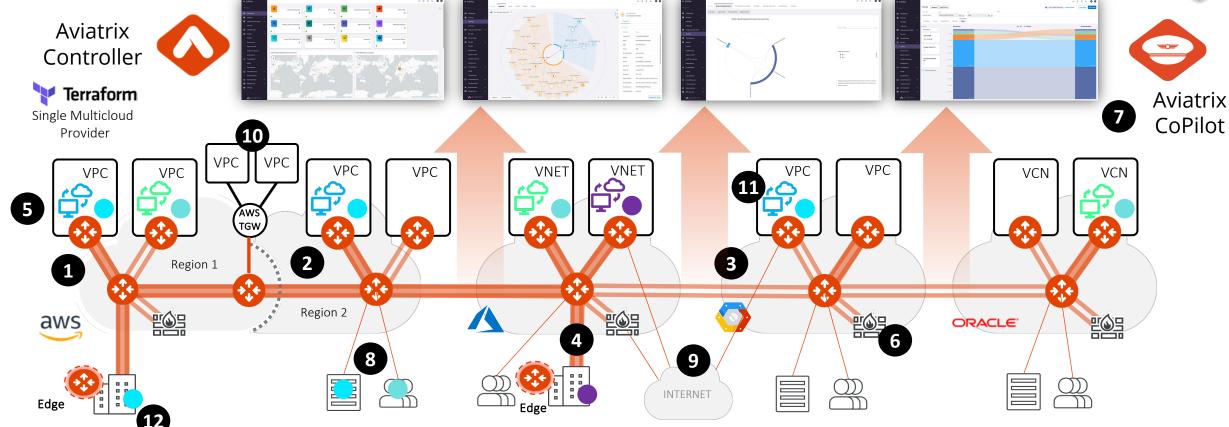


ThreatIQ with ThreatGuard Distributed Threat Visibility and Control



Aviatrix – Foundation of Your Multicloud Networking and Security





- 1. Single Cloud

 Multi-Account

 High-Availability (Active-Active)

 End-to-End Encryption

 Network Correctness
- 2. Multi-Region
- 3. Multicloud Repeatable Design
- 4. High-Performance Encryption
- 5. Network Segmentation

- 6. Service Insertion & Chaining
- 7. Enterprise Operational Visibility
- 8. Secure Cloud Access

- 9. Secure Ingress and Egress
- 10. Cloud-Native
- 11. Distributed Cloud Firewall
- 12. Aviatrix Edge





Next: Walkthrough of CoPilot UI

