

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

3 Days
Deploy proven design
patterns for a
multicloud network
architecture

Weeks

Design a highly available, scalable, and secure multicloud architecture

Optional Specialty Trainings



Learn CSP networking basics and SAP fundamentals with a focus on S/4HANA



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)	0:20	9:00 AM
LAB 8: Site2Cloud Overlapping IP Connectivity	0:35	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	0:55	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	0:30	4:15 PM
Survey + Exam Guidelines	0:15	4:45 PM
End		5:00 PM

Meet the Trainer



Joe Amendolara
Senior Solutions Architect, Aviatrix

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

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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 • • •

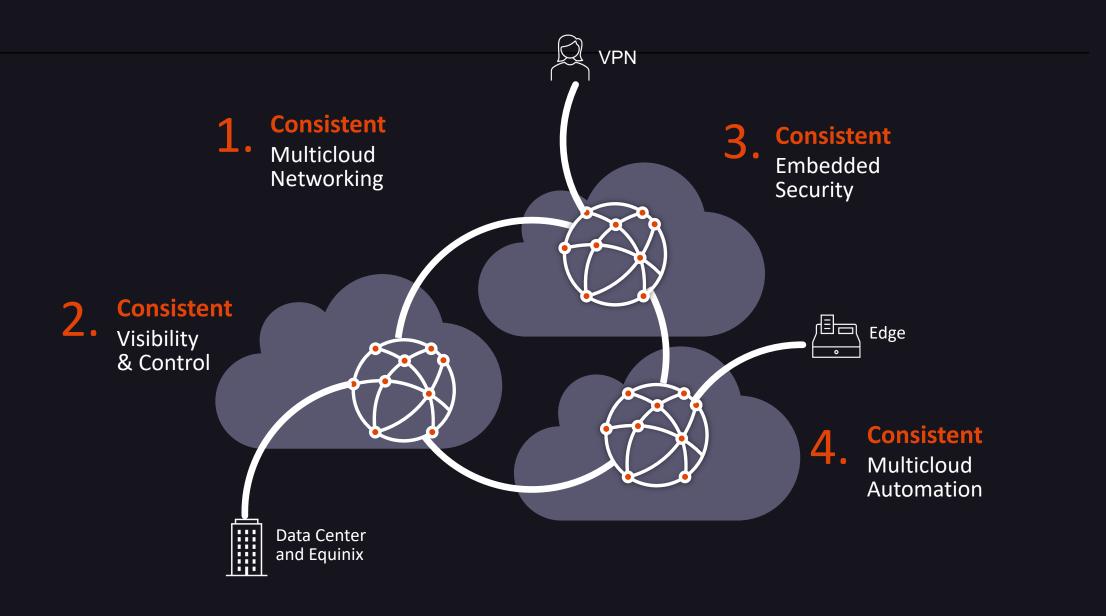
▲ aviatrix
Secure Cloud
Networking™



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



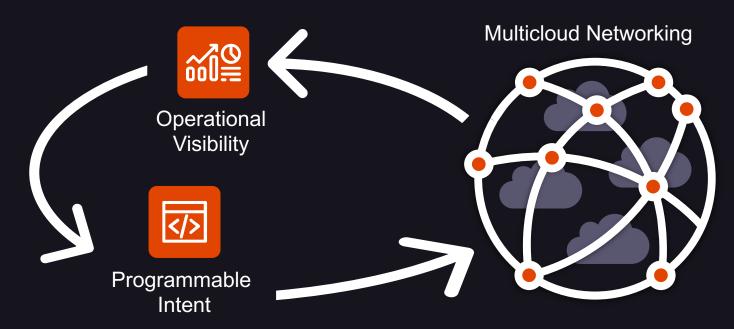
What Makes
Aviatrix
Unique?



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

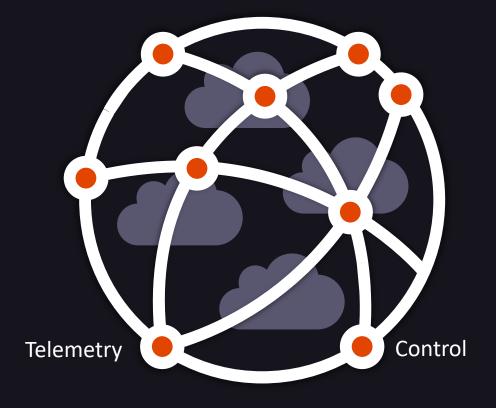
- Network Traffic Telemetry
- Security Telemetry
- Cost Telemetry
- Application Telemetry

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 >

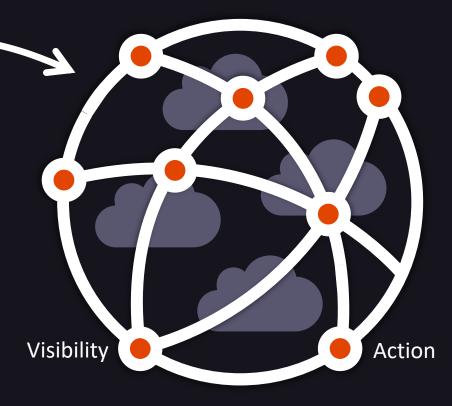
Security Actions

- 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.

ORACLE"



paloalto®



Multicloud Operational Visibility ACE

Aviatrix Certified Engineer



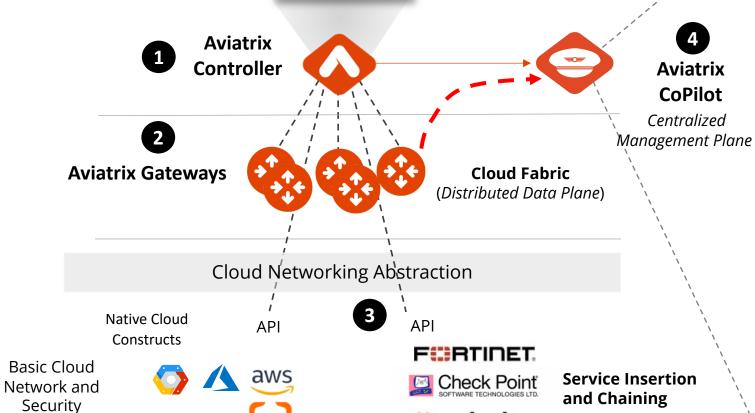
FlowIQ Multicloud Traffic Flow Analysis



Multicloud Dynamic Topology Mapping



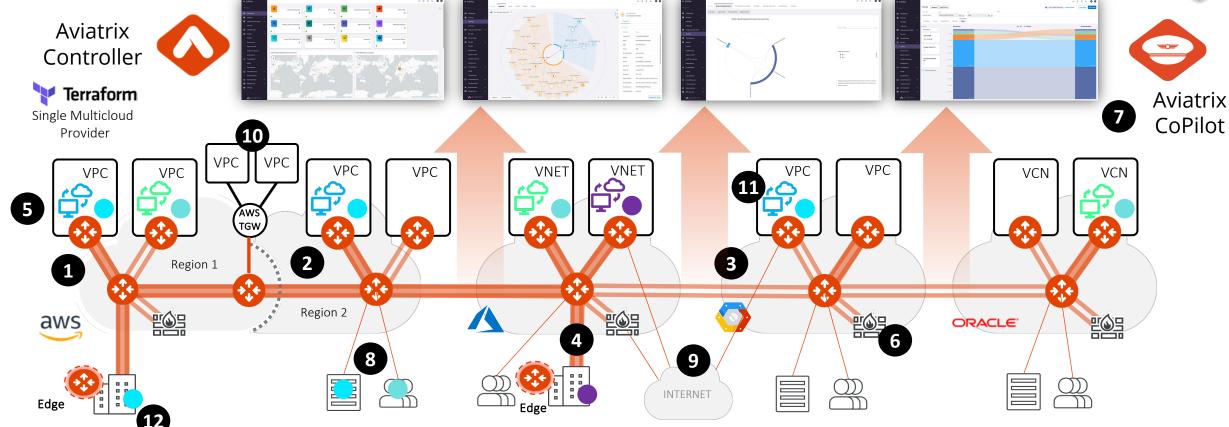
ThreatIQ with ThreatGuard Distributed Threat Visibility and Control





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

