

ACE Professional

DAY-1

□ntroduction



ACE Multicloud Networking Learning Paths

The industry's first and only multicloud networking certification

Join the ACE Community

Standard Learning Path









Join hands with fellow Network Engineers, help lead transformation in your orgs, and grow your careers









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 the Aviatrix

backbone to build

hybrid connections





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



4 Hours Use IaC tools to build,

enhance, and secure infrastructure



16 Hours

Troubleshoot real-world Day 2 cloud issues





Aviatrix Certified Engineer – Certification

Prerequisites

- All labs must be 100% completed except bonus labs
- System requirement for taking the exam
 - Chrome Browser
 - Plugin Add rights
 - Working Microphone
 - Working Webcam
 - Government Issued ID
 - Verify your system compatibility via getproctorio.com
- Specific exam related guidelines will be discussed before the exam
 - https://community.aviatrix.com/t/h7hxfw4/aviatrix-certified-engineer-frequently-asked-questions
 - https://www.youracclaim.com/org/aviatrix/badge/aviatrix-certified-engineer-multi-cloudnetwork-professional



Agenda – Day 1

Topics	Approx. Duration	Start time
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 CoPilot	0:30	11:15 AM
Break	0:15	11:45 AM
Multicloud Network Architecture (MCNA)	0:20	12:00 AM
Transit Networking	0:40	12:20 PM
Lunch Break	1:00	1:10 PM
LAB 2: (MCNA) Transit Networking	0:50	2:10 PM
Network Segmentation	0:25	3:00 PM
LAB 3: Network Segmentation	0:25	3:50 PM
Break	0:15	4:05 PM
High Performance Encryption	0:25	4:30 PM
Multi-Region / Multicloud ActiveMesh	0:30	5:00 PM
End		5:00 PM



Meet the Trainers



Joe AmendolaraSenior Solutions Architect, Aviatrix

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

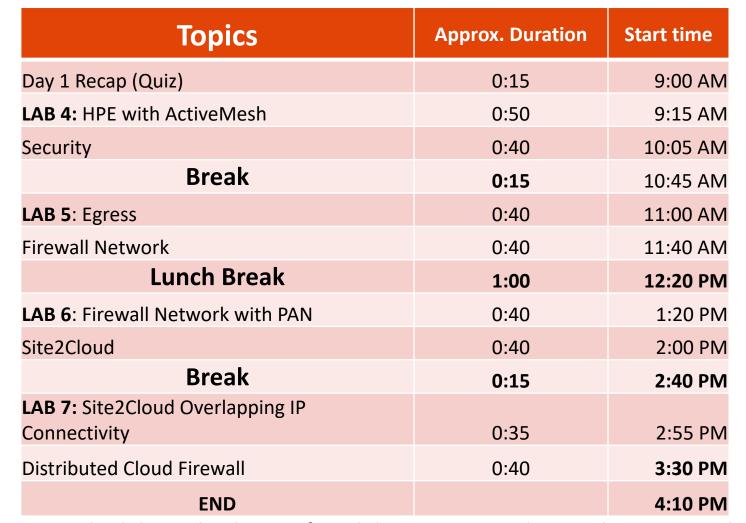


Paul CarvillDirector Solution Engineering EMEA,
Aviatrix

Past: Dimension Data, O2, NextiraOne.. CCIE #16661 (R&S, SP)



Agenda – Day 2



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

ACE Aviatrix Certified Engineer

Meet the Trainers



Joe Amendolara
Senior Solutions Architect, Aviatrix

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



Paul Carvill
Director Solution Engineering EMEA,
Aviatrix

Past: Dimension Data, O2, NextiraOne.. CCIE #16661 (R&S, SP)



Agenda – Day 3



Meet the Trainers

Topics	Approx. Duration	Start time
Day 2 Recap (Quiz)	0:15	9:00 AM
LAB 8: Distributed Cloud Firewall	0:50	9:15 AM
Operations	0:30	10:05 AM
Break	0:15	10:35 AM
Design Exercise recap	0:20	10:50 AM
Let's Design Together! (breakout rooms)	1:00	11:10 AM
Design Presentations	0:20	12:10 PM
Survey	0:05	12:30 PM
End		12:35 PM





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Aviatrix

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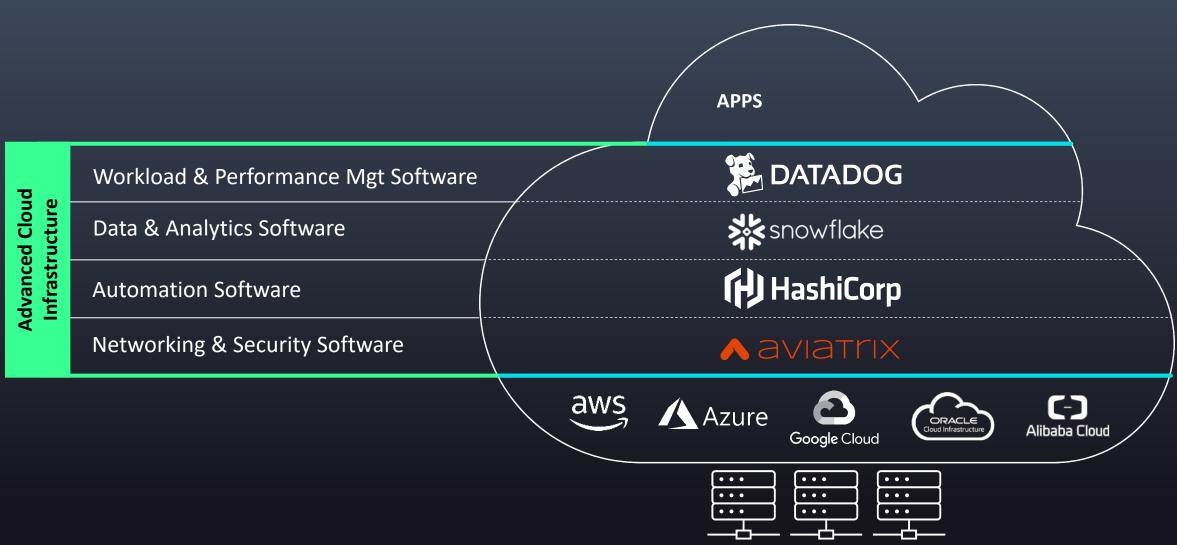
Microphone check: What is your desired outcome of this training?



What is Aviatrix?



Business-Critical Applications Require Business-Critical Infrastructure



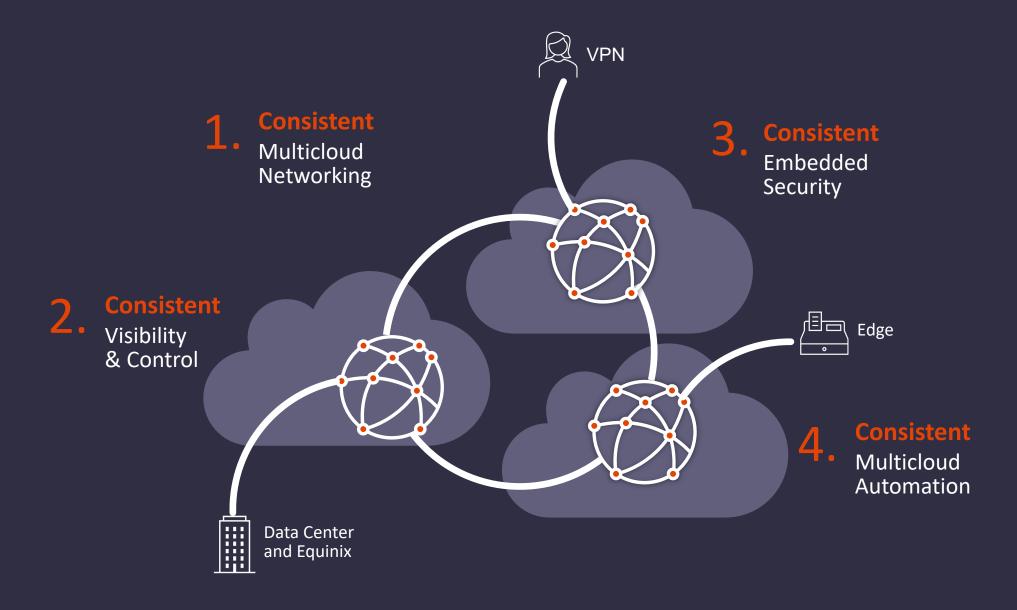
▲ aviatrix
Secure Cloud
Networking™



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

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



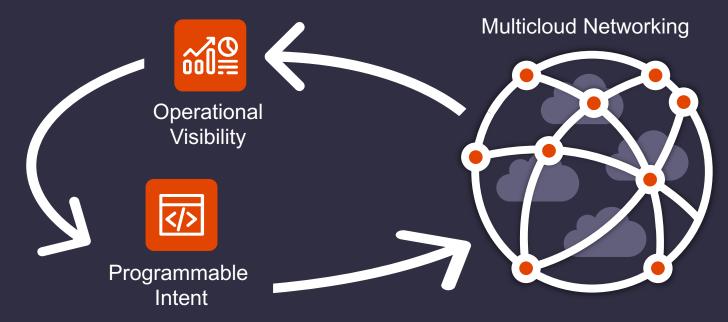
What Makes Aviatrix Unique?



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

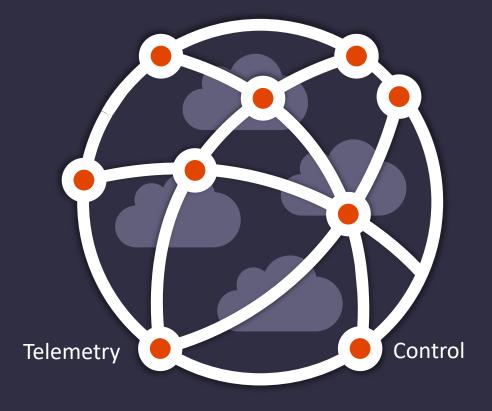
- Network Traffic Telemetry
- Security Telemetry
- Cost Telemetry
- Application Telemetry

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



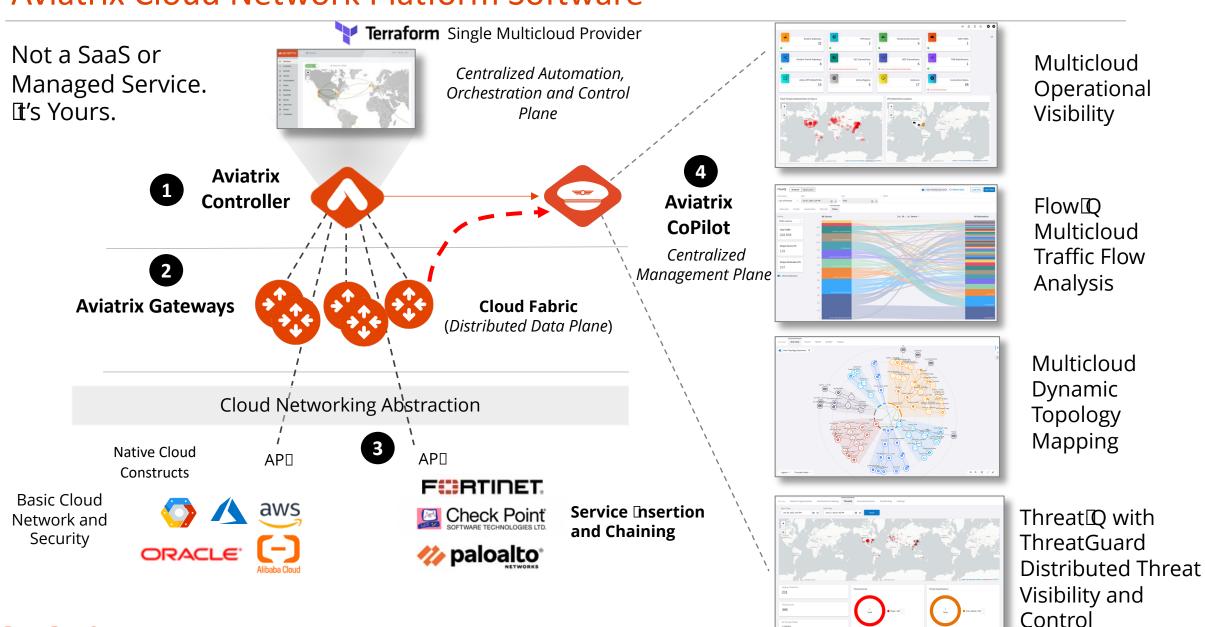
Aviatrix Cloud Fabric



Aviatrix Solution Components

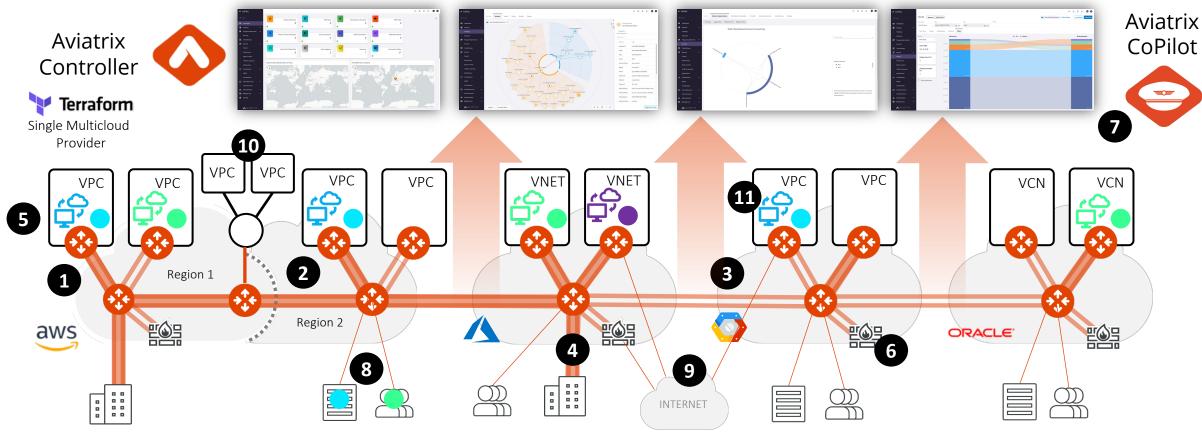


Aviatrix Cloud Network Platform Software





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

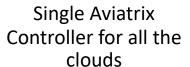
- 9. Secure Ingress and Egress
- 10. Cloud-Native
- 11. Distributed Cloud Firewall



Aviatrix Controller









Do not need to sign a separate licensing agreement with Aviatrix to get started



Controller can be launched from any cloud provider's Marketplace (Pay-As-You-Go/metered: Best for PoC and single use case)



You can also use your Cloud Provider Credits (like AWS Marketplace credits)



Enterprise
Agreement:
Production
deployment (most
enterprises)



Next: Walkthrough of CoPilot UI

