

# **ACE Professional**

DAY-1

Introduction



#### **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

#### **Prerequisite:**

ACE Associate

#### How to get certified:

- It is necessary to score at least 90% on the completion of the Labs (there are 10 Labs!)
  - Automated script will evaluate the completion of each lab
- Attend the entire course
- Complete the final Survey

#### **Certification will be then delivered after approximately 7 business days!**



# 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
Knowledge Check: Design exercise	0:10	11:05 AM
LAB 1: Create VPCs/VNet using CoPilot	0:35	11:15 AM
MultiCloud Network Architecture (MCNA)	0:20	11:50 AM
Transit Networking	0:50	12:10 AM
Lunch Break	1:00	1:00 PM
LAB 2: (MCNA) Transit Networking	0:55	2:00 PM
Network Segmentation	0:40	2:55 PM
LAB 3: Network Segmentation	0:30	3:35 PM
Break	0:15	4:05 PM
Role-Based Access Control - RBAC	0:15	4:20 PM
LAB 4: RBAC	0:25	4:35 PM
End		5:00 PM

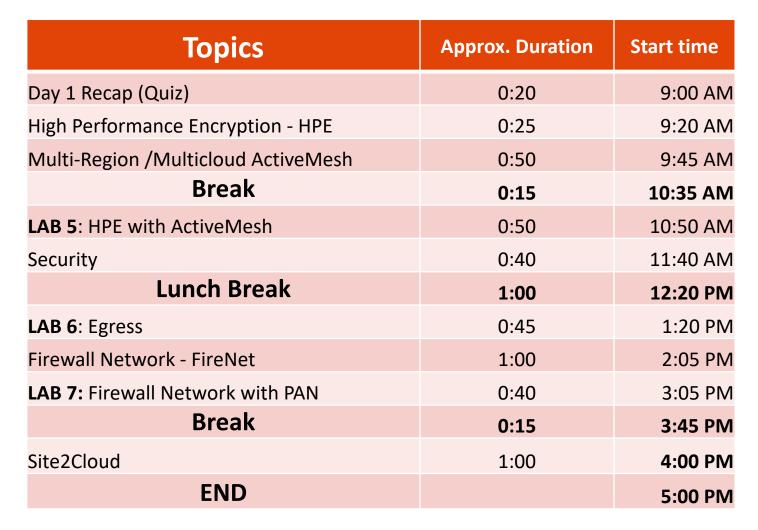


#### Meet the Trainer





# Agenda – Day 2



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



#### Meet the Trainers



**Joe Amendolara** Senior Solutions Architect, Aviatrix

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



Mihai Tănăsescu
Principal Solutions Architect, Aviatrix

Past: Cisco, Juniper linkedin.com/in/mihaitanasescu



# Agenda – Day 3

Topics	Approx. Duration	Start time
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	9:55 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	0:25	4:45 PM
End		5:00 PM

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





#### Meet the Trainer



Joe Amendolara
Senior Solutions Architect
Aviatrix

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



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

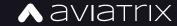


# What is Aviatrix?



# **Business-Critical Applications Require Business-Critical Infrastructure**

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



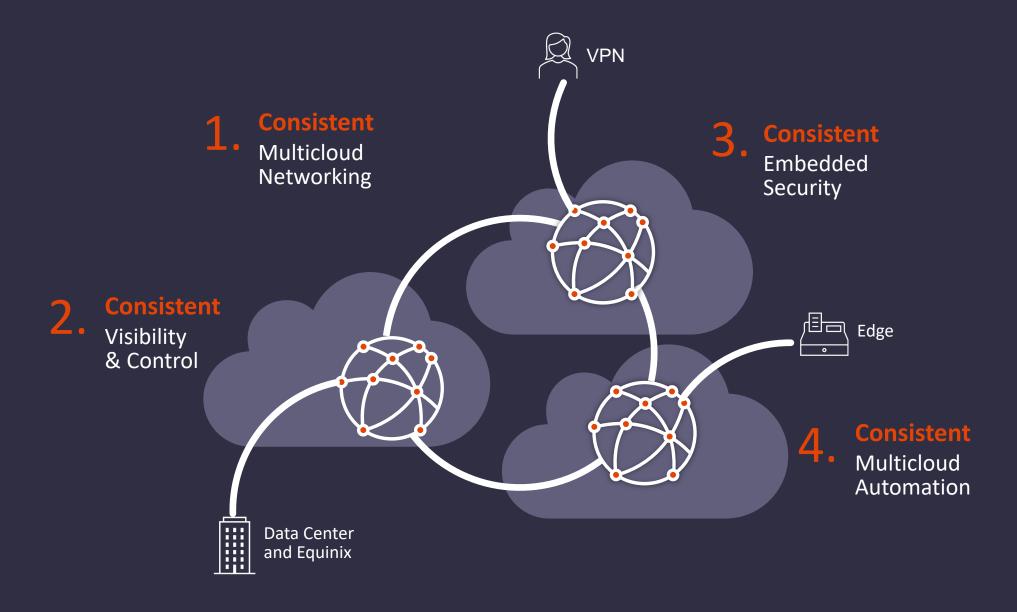
▲ aviatrix
Secure Cloud
Networking™



## 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

## 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



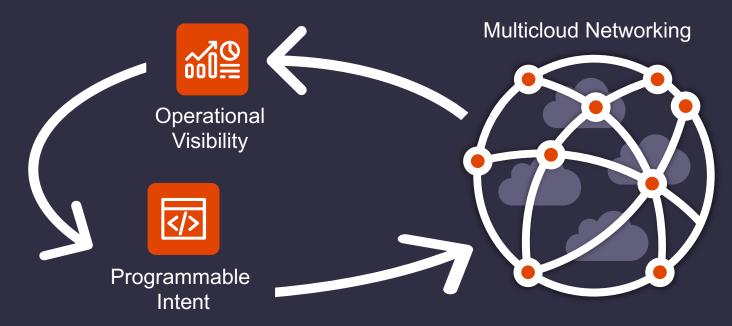
What Makes
Aviatrix
Unique?



# 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

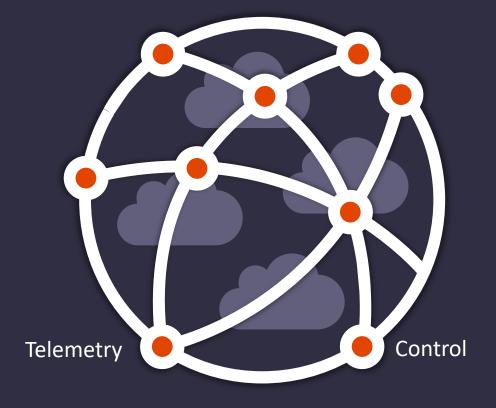
- Network Traffic Telemetry
- Security Telemetry
- Cost Telemetry
- Application Telemetry

#### **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 >

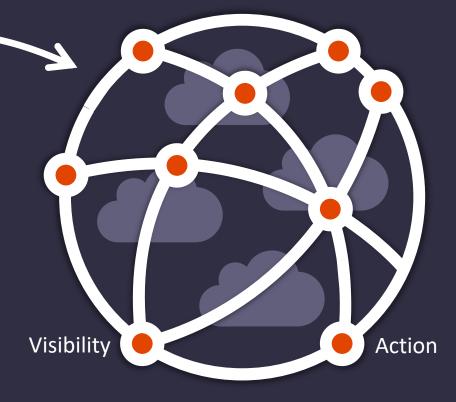
#### **Security Actions**

- 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



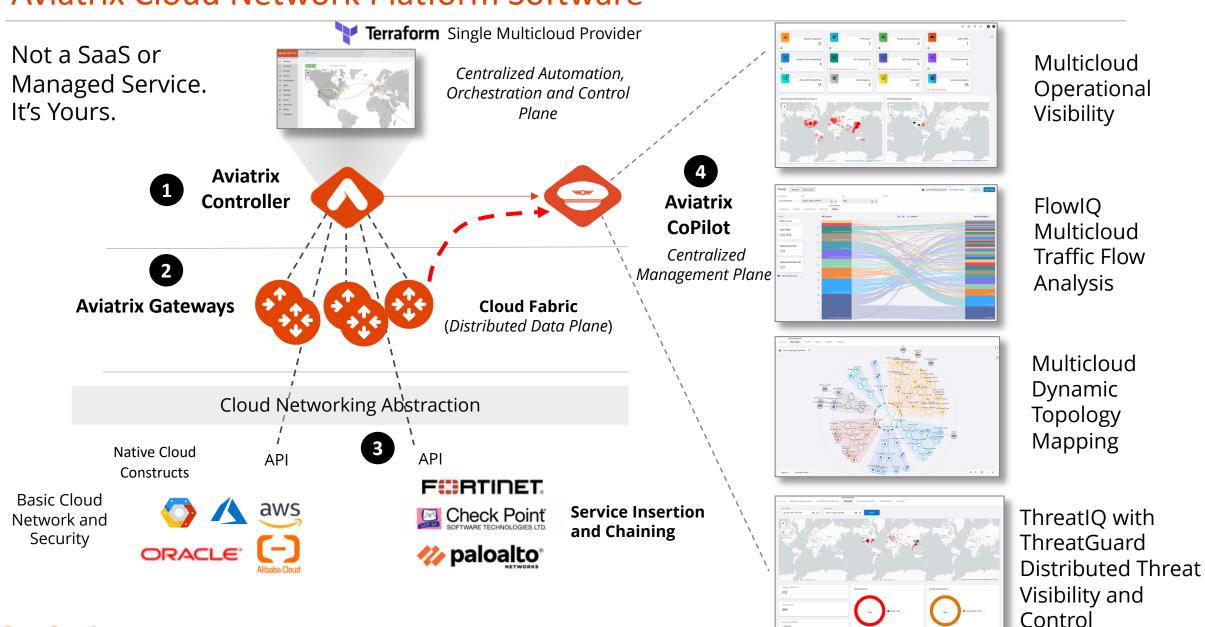




# Aviatrix Solution Components

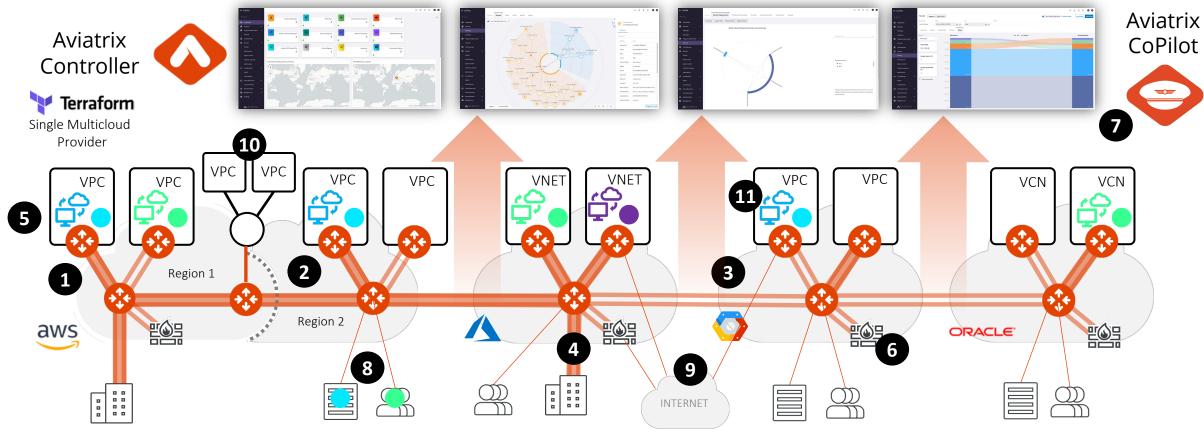


#### **Aviatrix Cloud Network Platform Software**





#### 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

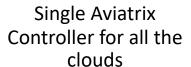
- 9. Secure Ingress and Egress
- 10. Cloud-Native
- 11. Distributed Cloud Firewall



### **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

