# ACE Cloud Security

ACE Solutions Architecture Team

# Break the ice

- Your name and job title?
- Cloud Experience?
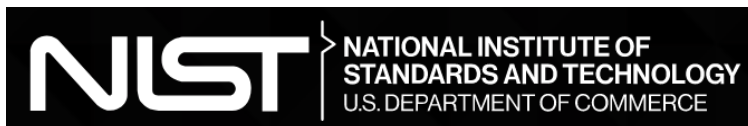
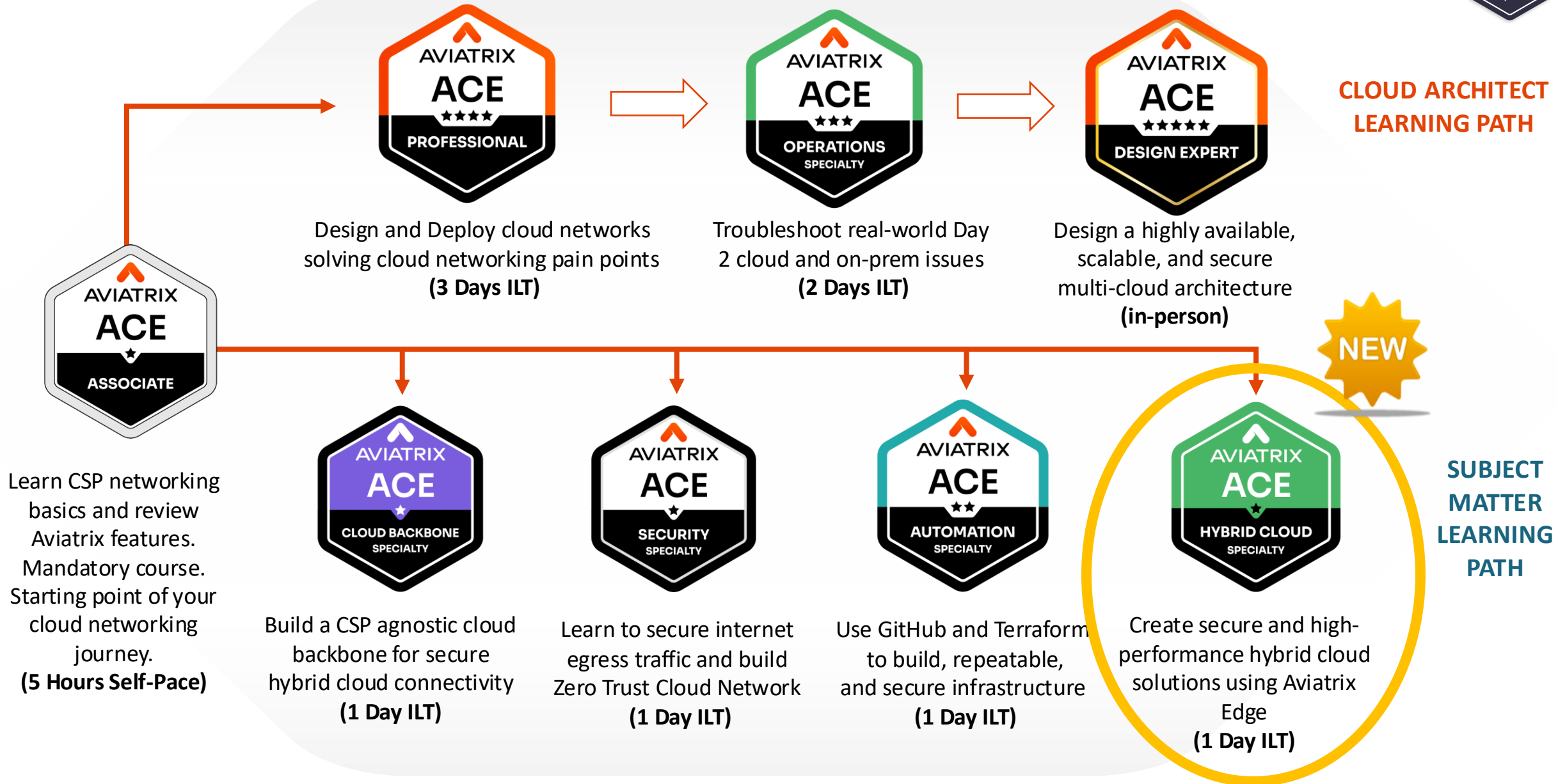# Course Overview and Learning Objectives

**Overview:**

- Business-critical apps need advanced security controls with resiliency

- Customers need "cloud-friendly" and "modernized" security solutions.

- Overview of cloud security with a simple and repeatable approach

- Augment CSP features with consistent security designs

**Learning Objectives:**

- Design a Resilient Zero Trust Network Architecture (ZTNA)

- https://www.nist.gov/publications/zero-trust-architecture

- Learn the advantages of using a distributed security model over a centralized model

- Learn the cost optimization tips and tricks while improving security.

- Best practice, repeatable security design for single, multiple, and hybrid clouds.

# ACE Learning Paths

**AVIATRIX ACE** — Aviatrix Certified Engineer

## CLOUD ARCHITECT LEARNING PATH

**AVIATRIX ACE PROFESSIONAL**
Design and Deploy cloud networks solving cloud networking pain points
**(3 Days ILT)**

→

**AVIATRIX ACE OPERATIONS SPECIALTY**
Troubleshoot real-world Day 2 cloud and on-prem issues
**(2 Days ILT)**

→

**AVIATRIX ACE DESIGN EXPERT**
Design a highly available, scalable, and secure multi-cloud architecture
**(in-person)**

**AVIATRIX ACE ASSOCIATE**
Learn CSP networking basics and review Aviatrix features. Mandatory course. Starting point of your cloud networking journey.
**(5 Hours Self-Pace)**

## SUBJECT MATTER LEARNING PATH

**AVIATRIX ACE CLOUD BACKBONE SPECIALTY**
Build a CSP agnostic cloud backbone for secure hybrid cloud connectivity
**(1 Day ILT)**

**AVIATRIX ACE SECURITY SPECIALTY**
Learn to secure internet egress traffic and build Zero Trust Cloud Network
**(1 Day ILT)**

**AVIATRIX ACE AUTOMATION SPECIALTY**
Use GitHub and Terraform to build, repeatable, and secure infrastructure
**(1 Day ILT)**

**NEW**

**AVIATRIX ACE HYBRID CLOUD SPECIALTY**
Create secure and high-performance hybrid cloud solutions using Aviatrix Edge
**(1 Day ILT)**

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**ILT = Instructor Led Training**

# How to Get the ACE Security Certificate

**1**

ACE Associate is pre-req

Attend the training.

**2**

Pass the Quiz. 17 questions. 76% passing score. Retake allowed. Few questions Based on the lab pod

**3**

Complete the Survey

Please do not share the Quiz and Survey links outside of this group

# Who is Aviatrix?

**"Aviatrix: Simplify Your Cloud Networking and Network Security, Break Free from CSP Lock-In, Lead the Digital Transformation, and Save Costs!"**

| 1800+ | 500+ | $350M | 50+ |
|---|---|---|---|
| COMBINED YEARS OF NETWORKING EXPERIENCE | WORLDWIDE CUSTOMERS | VENTURE INVESTMENT | BUSINESS & TECHNOLOGY PARTNERS |

## Awards & recognition

Aviatrix continues to receive recognition and accolades from the most trusted authorities across business, cloud, and security communities.

# Enterprises Pick Cloud Networking Leader Aviatrix

# Rizwan Jamal

Rizwan Jamal is highly experienced Senior Solutions Architecture at Aviatrix. He is an expert on hybrid and public cloud networking

With over 25 years of experience in the technology sector, Rizwan has established himself as SME in Cloud Computing, Datacenters and Colocation networking services.

His past career highlights include:

- Principal Network Architect at Equinix, where he was responsible for global network architecture and engineering, introducing innovative solutions like Intent-based Programmable Network for Equinix Interconnection services.

- Senior Service Engineer at Microsoft, where he was a senior member of the NIS design team, developing scalable and cost-effective network designs for Microsoft's internal datacenters and worldwide network.

- Network Consulting Engineer at Cisco, where he was responsible for designing and building core networking for large enterprises and telcos such as Bell Canada.

https://linkedin.com/in/rizwan-j-35429723

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# Joe Amendolara

Joe Amendolara is a Senior Solutions Architect - ACE at Aviatrix, bringing a wealth of experience in network engineering and design. As a Cisco Certified Internetwork Expert (CCIE), Joe possesses deep technical knowledge and expertise in advanced networking concepts.

Prior to joining Aviatrix, Joe held significant positions at Orange Business Services as a Senior Infrastructure Integration Solution Consultant and at Huawei Technologies as an IP Solution Sales Manager. His experience also includes roles at Whirlpool Corporation and Dimension Data, where he honed his skills in network engineering and service delivery management.

Joe's technical expertise spans various areas, including:

https://linkedin.com/in/joe-amendolara

- Multicloud Networking and Security

- QoS and Multicast implementation

- IPv6 solutions deployment

- Cisco ACI (Application Centric Infrastructure)

# Aviatrix ACE Security Course Agenda

| Topics | Approx. Duration (Minutes) |
|---|---|
| Introduction | 25 |
| Zero Trust Architecture (ZTA or ZTNA) | 25 |
| Asset Inventory and Grouping (Smart Groups) | 15 |
| **Break** | **15** |
| Distributed Cloud Firewall and FireNet | 35 |
| Cloud Perimeter Security | 25 |
| Micro Segmentation | 15 |
| ThreatIQ , Geoblocking  and Anomaly Detection | 15 |
| **Break** | **15** |
| Security Visibility | 10 |
| SecOps (NetFlow, Alerts, RBAC) – Demo | 20 |
| Self-Service LAB and Quiz and Survey | 35 |
| **Total Duration** | **250 min (4 hours and 10 minutes)** |

# Aviatrix Secure Cloud Networking | Distributed Security and Operations

## Embedded Security and Operations – The data plane sees every packet
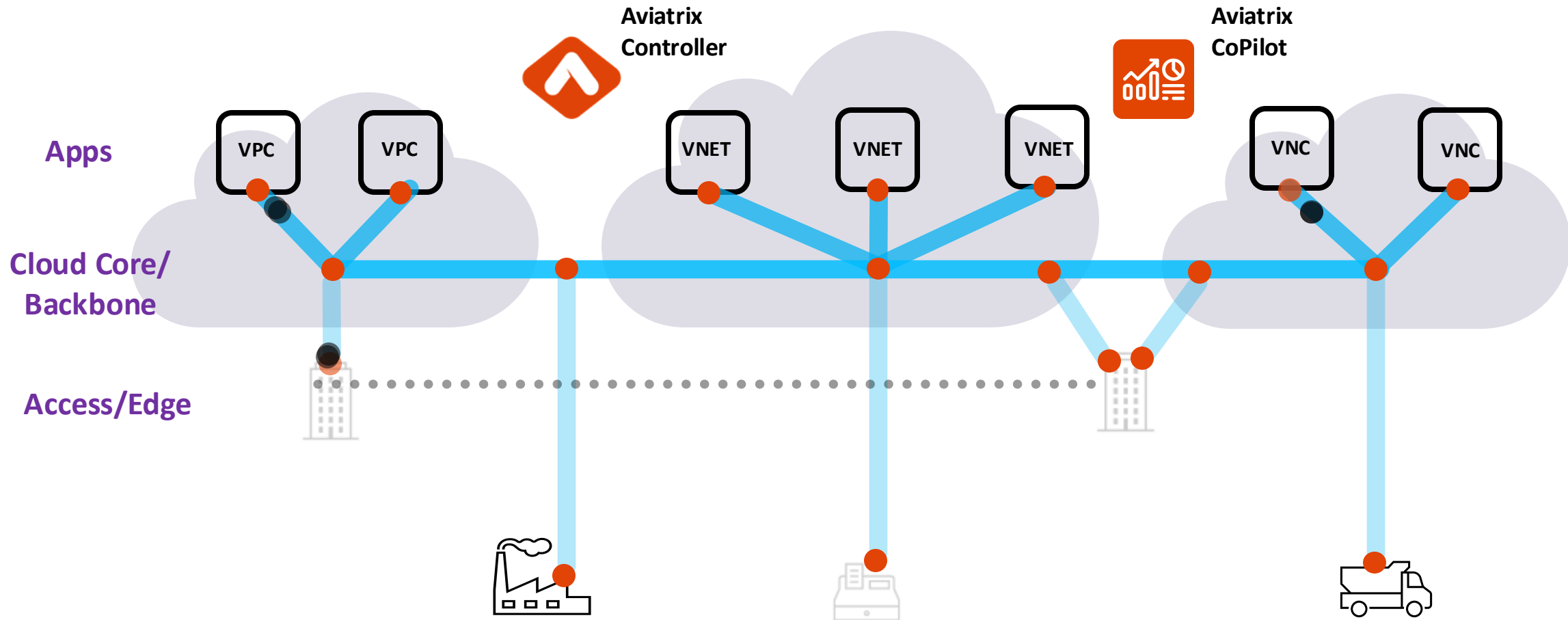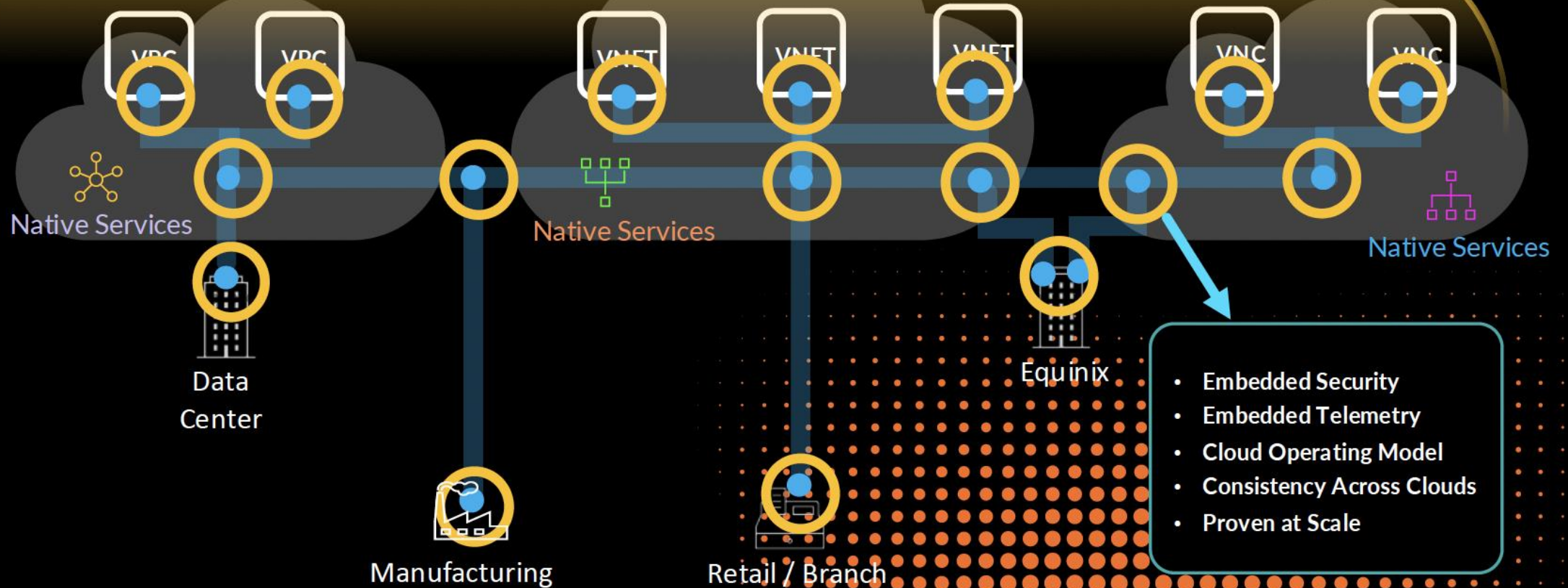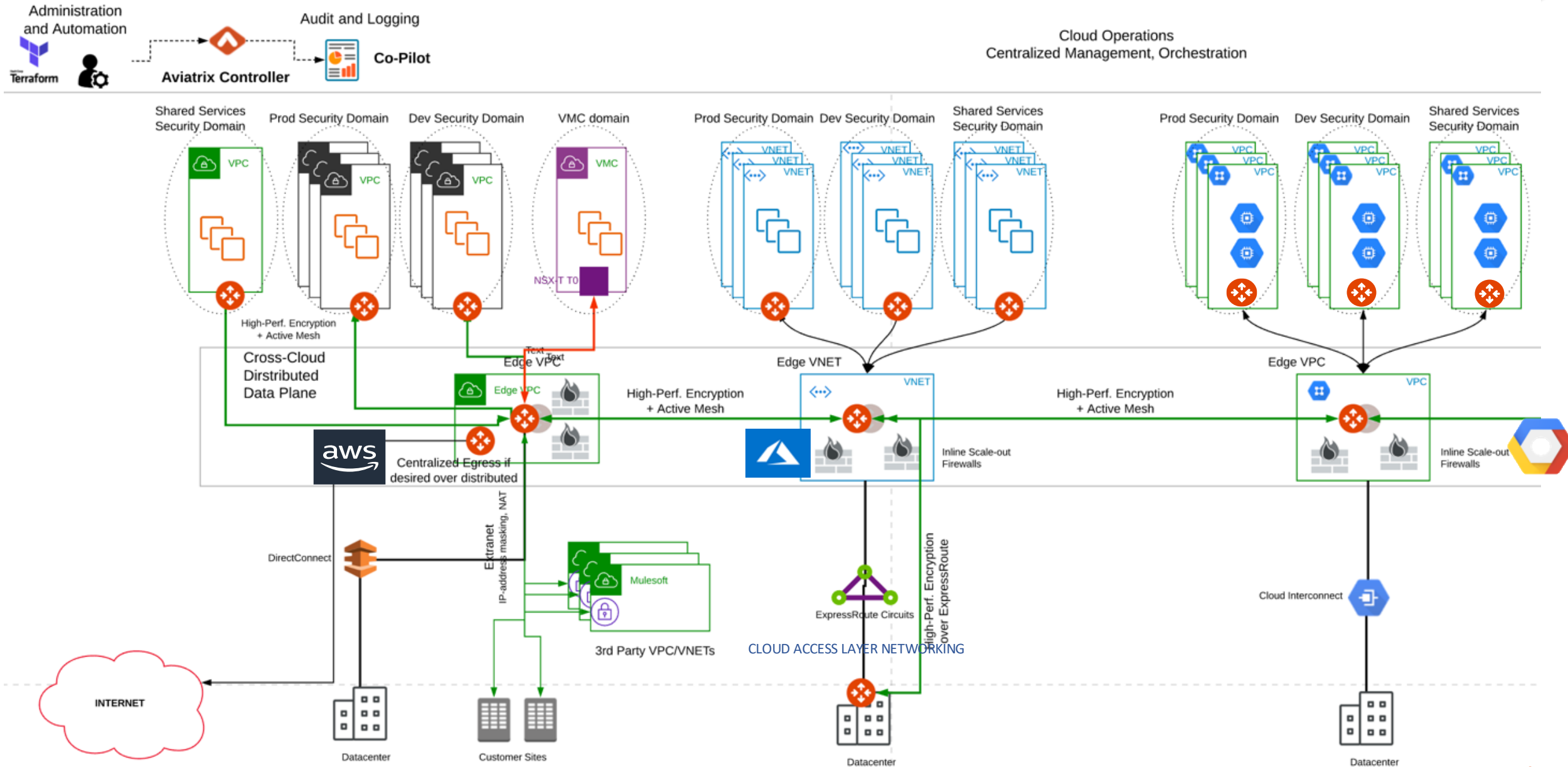
# Blueprint of Cloud Networking – Example from a 3 years long Project

# LAB Access

https://docs.aviatrixlab.com/ace-security/
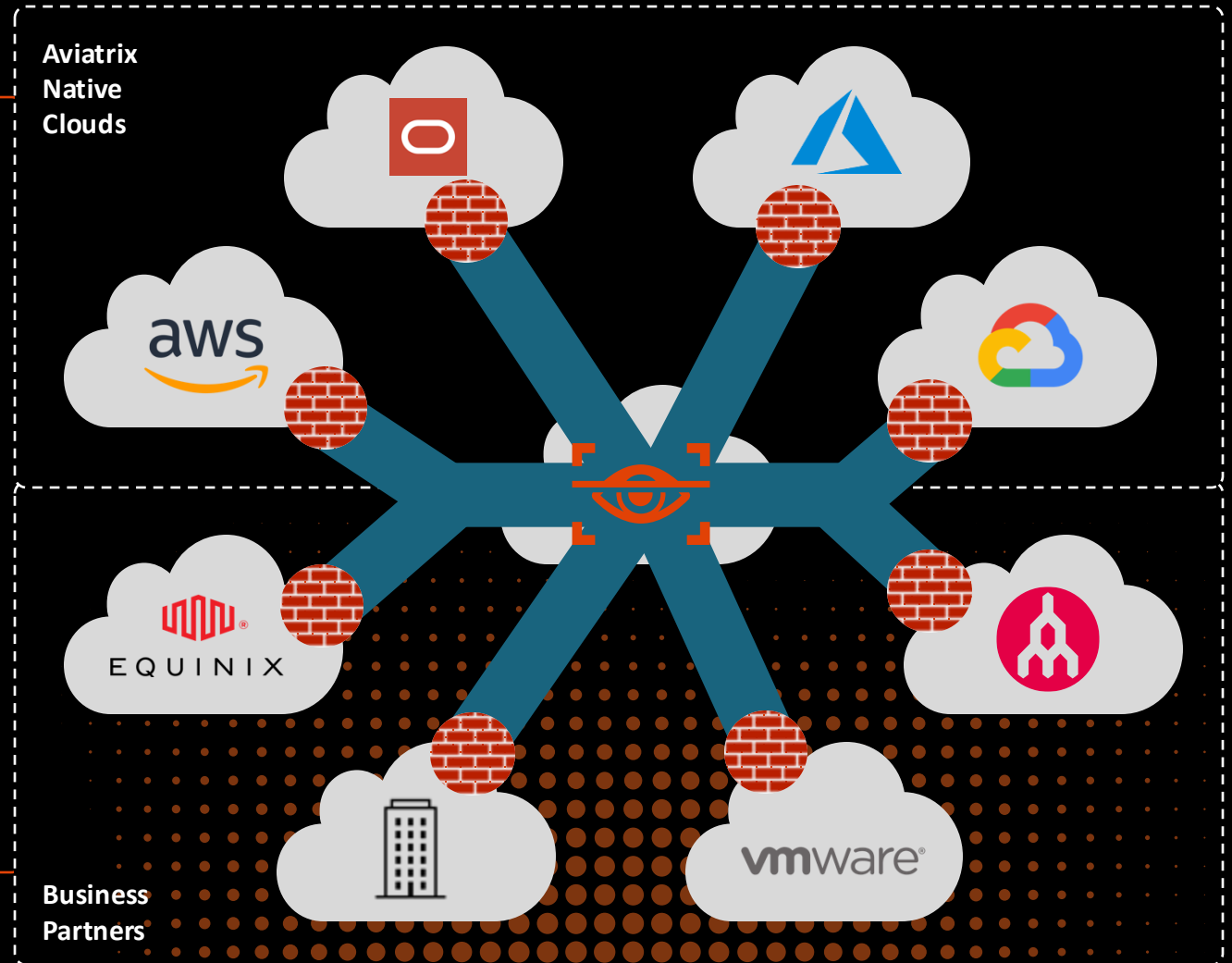
- Lab access is provided
- Make sure you can log in
- During the lectures feel free to browse the UI

Aviatrix Certified Engineer (ACE)
https://aviatrix.com/ACE

COMMUNITY
https://community.aviatrix.com