

ARISTA VXLAN/EVPN FABRIC MENTORED INSTALL

Service Overview:

At Netnology, we specialize in Arista VXLAN/EVPN fabric enablement and implementation services to accelerate the adoption of modern, scalable data center network architectures. As part of this Mentored Install service offer, our subject matter experts (SMEs) partner with your team to ensure the smooth deployment of the VXLAN/EVPN fabric in your environment. Leveraging Arista CloudVision Portal (CVP) and Arista Validated Designs (AVD) as automation and orchestration tools, we provide hands-on guidance and knowledge transfer to equip your staff with the necessary skills to configure, operate, and manage the Arista-based fabric infrastructure.

Solution Overview:

Arista VXLAN/EVPN Fabric is a modern, scalable network architecture designed to meet the demands of today's cloud-scale data centers. It provides a flexible and resilient underlay and overlay solution that simplifies Layer 2/Layer 3 segmentation, supports multi-tenancy, and enables seamless expansion across single or multi-site environments. Powered by open standards and built on Arista's high-performance switching platforms, the VXLAN/EVPN fabric ensures consistency, reliability, and operational simplicity.

To accelerate deployment and enhance manageability, Arista CloudVision Portal (CVP) and Arista Validated Designs (AVD) offer an intent-based automation and telemetry framework. This enables centralized configuration, compliance enforcement, and real-time visibility across the entire fabric. Together, these tools help reduce operational risk, streamline migration from legacy architectures, and optimize fabric performance — ultimately improving agility, scalability, and return on investment.

Service Benefits:

Netnology has a team of world-class engineers who specialize in Arista VXLAN/EVPN fabric deployments and are passionate about customer success. This Mentored Install engagement will provide hands-on guidance on how to deploy, configure, and integrate a scalable VXLAN/EVPN fabric using Arista's CloudVision Portal (CVP) and Arista Validated Designs (AVD), ensuring your team gains the knowledge and confidence to manage and operate the solution effectively.

Service Scope:

As part of the 10-day (up to 80 hours) engagement, Netnology will provide the following services:

- Solution Overview and Architecture Review
- CloudVision Portal (CVP) Setup and Integration
- AVD Deployment Model Selection (Single vs. Multi-Fabric)
- Design and Implementation of VXLAN/EVPN Fabric
- Underlay Routing Configuration (OSPF / IS-IS / BGP)
- Overlay Control Plane Configuration (BGP EVPN)

- AVD-Based Fabric Templates
- Leaf/Spine Device Provisioning and Onboarding
- L2/L3 Services Enablement and VRF Configuration
- Multi-Tenant Segmentation and VLAN-to-VNI Mapping
- EVPN Multi-Homing (ESI) and LAG Configuration (if applicable)
- Multi-Site Connectivity and L2/L3 Stretching (if applicable)
- Endpoint Discovery, Mobility, and MAC/IP Learning Validation
- Telemetry Setup Using CVP for Fabric Health Monitoring
- Troubleshooting and Validation
- Rollback, Backup, and Configuration Management via CVP
- Operational Best Practices and Optimization Techniques
- Knowledge Transfer and Guided Walkthrough

Target Audience:

This service is designed for Network Architects, Network Engineers and Administrators configuring, deploying, and managing the AI Infrastructure.

Prerequisites:

- Basic knowledge on Arista Devices.
- Customers need to ensure that all equipment and devices are racked and stacked, cabled, and powered up prior to the kick-off. Customers also need to acquire the necessary software licenses for the deployment of the infrastructure.

Service Deliverables:

No	Deliverable	Service Details
1.	Project Kickoff	<ul style="list-style-type: none"> • Project Overview • Solution Overview • Gather Customer requirements
2.	Pre-Requisite Validation	<ul style="list-style-type: none"> • Review Hardware and Platform Readiness (Arista switches, CVP) • Validate Software Versions and Licensing • Network Readiness Check (Underlay reachability, MTU, redundancy)
3.	High Level Design	<ul style="list-style-type: none"> • Develop High Level Design (HLD) Document
4.	Configure VXLAN/EVPN Fabric Infrastructure	<ul style="list-style-type: none"> • Configure IP Underlay (OSPF/BGP) • Configure VXLAN Overlay with BGP EVPN Control Plane • Provision Leaf/Spine Devices using AVD and CVP • Configure VLANs, VNIs, VRFs, and VTEPs • Enable EVPN Multi-Homing (if applicable)

5.	CloudVision Portal (CVP) & AVD Integration	<ul style="list-style-type: none"> • Deploy CVP and integrate with network devices • Setup AVD • Generate and deploy configlets via CVP
6.	Multi-Site and L2/L3 Stretch	<ul style="list-style-type: none"> • Configure Inter-Fabric Connectivity • Enable L2 and L3 Stretch across sites • Configure and validate EVPN route exchange between fabrics
7.	Telemetry and Monitoring Setup	<ul style="list-style-type: none"> • Enable CVP telemetry for real-time fabric visibility • Configure dashboards, alerts, and reports • Setup endpoint tracking and path validation
8.	Testing and Validation	<ul style="list-style-type: none"> • Validate VTEP communication and end-to-end reachability • Simulate failover scenarios and verify convergence
9.	Knowledge Transfer	<ul style="list-style-type: none"> • Provide walkthrough of deployed solution • Review day-2 operations and troubleshooting workflows • Deliver best practices documentation and next steps