

TRAINING DELIVERY METHOD

Instructor-led remote or onsite training sessions via NVIDIA Academy WebEx or Teams platform, including access to hands-on environment.

TARGET AUDIENCE

This course is designed for network administrators and engineers who wish to learn how to install, configure, manage, monitor and troubleshoot Cumulus Linux based switches.

Prerequisites

Good understanding of Ethernet network principles
Good understanding of switching and routing concepts
Recommended: Hands-on experience with basic switch configuration

TRAINING DURATION

3 sessions of 4 hours each

TRAINING OUTLINE

Cumulus Linux Overview

- What is Cumulus Linux
- Cumulus Linux Architecture
- Linux shell (bash)
- Functional Units, e.g. interface manager
- Link Layer Discovery and verification (LLDP and PTM)

Cumulus Linux Initial Setup

- New CLI (NVUE)
- Zero Touch Provisioning (ZTP)

Layer 2

- Linux Bridging (VLAN Aware Bridge)
- Trunk and Access Port configuration
- Spanning Tree (STP)
- Bonds -Link Aggregation (LAG - LACP)
- Multi-Chassis Link Aggregation (MLAG)

Layer 3

- Switch Virtual Interfaces (SVI)
- Virtual Router Redundancy (VRR)
- Virtual Routing and Forwarding (VRF)
- Routing Suite (FRR)
- Border Gateway Protocol
- BGP in the Data Center
- BGP unnumbered

Network Virtualization

- Virtualization
 - Tunnel (VXLAN)
 - Controller-less VXLAN (EVPN)
- EVPN
 - EVPN Routing Modes
- VXLAN Asymmetric Routing Workshops
- VXLAN Symmetric Workshop