

## Cumulus Linux Professional Course

**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.

**TRAINING DURATION** – Remote: 4 sessions of 4 hours each

## TRAINING OUTLINE

### Session 1

#### Cumulus Linux Overview

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

#### Cumulus Linux Initial Setup

- Binary install (ONIE)
- Packet-Manager update (APT)
- New CLI (NVUE)
- Zero Touch Provisioning (ZTP)

### Session 2

#### Layer 2

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

### Session 3

#### Layer 3

- Switch Virtual Interfaces (SVI)
- Virtual Router Redundancy (VRR)
- Virtual Routing and Forwarding (VRF)

- Routing Suite (FRR)
- Border Gateway Protocol for DC (MP-BGP)
- BGP unnumbered

## Session 4

- Virtualization
  - Tunnel (VXLAN)
  - Controller-less VXLAN (EVPN)
- EVPN-L2 (L2VNI)
- EVPN-L3 symmetric routing (L3VNI)

## Monitoring and Troubleshooting

- Layer 2 common troubleshooting
- Layer 3 common troubleshooting
- EVPN VXLAN troubleshooting
- Ansible basics