



AI Factory Deployment Networking Configuration Workshop

OUTLINE

Training Overview

This workshop dives into the networking required for an AI Factory. The learners will be introduced to Cumulus Linux, Spectrum X, and InfiniBand. They will learn how to configure networks and do basic debugging and troubleshooting. The learners will become familiar with command line and GUI tools for working with the networks in an AI Factory using the NVIDIA Air© platform and other tools.

Training Delivery Method

Instructor-led remote training sessions via NVIDIA Academy Teams platform.
Hands-on lab exercises focused on the deployment of AI Factory Components.

Target Audience

This course is aimed at teams that will deploy and configure switches for an AI Factory.

Training Duration

Remote: 4 sessions of 4 hours

Session 1:

AI Factory Networking Overview

Introduction to NVIDIA Air©

Cumulus Linux Review

Cumulus Linux Hands On

- Software Upgrades
- Configuring BGP (Border Gateway Protocol) Unnumbered
- VXLAN w/EVPN
- Distributed VXLAN Routing

Session 2:

Cumulus Linux

- VXLAN w/EVPN
- Distributed VXLAN Routing

Spectrum X Review

Spectrum X Hands On

- Testing Configuration

Session 3:

- Access NetQ Server in Air
- NetQ Server Troubleshooting

Session 4:

InfiniBand Hands On

- Identify InfiniBand components
- OOB Management verification
- Fabric Validation
 - Validate Connectivity
 - Troubleshoot Connectivity
- Use UFM
 - Identify components
 - Check network health
 - Monitor network