

TRAINING DELIVERY METHOD

Instructor-led remote training via our WebEx training environment.
Training includes access to hands-on environment based on real switches and servers.

TARGET AUDIENCE

Good understanding of networking concepts.

TRAINING DURATION

Remote: 4 sessions of 4 hours each

Onsite: 3-days

TRAINING OUTLINE

InfiniBand Introduction

- InfiniBand Trade Association
- What is InfiniBand?
- InfiniBand key features - InfiniBand fabric components
- Topologies

InfiniBand Architecture

- The physical layer
 - Overview
 - Mechanisms
- The data link layer
 - Overview
 - Mechanisms & services
- The network layer
 - Overview
 - Mechanisms
- The transport layer
 - Overview
 - Mechanisms & services
- The upper layers
 - Structure – verbs & protocols
 - Mechanisms & services

Fabric Management

- Introduction to subnet management concepts
- Subnet Manager
- Fabric addressing
- Node's identifiers
- Fabric Initialization stages
- Basic routing algorithms

InfiniBand Drivers and Tools

- Mellanox OFED for Linux/Windows overview
- Upgrading OFED version
- Burning firmware
- OFED utilities overview
- Cluster based utilities
- Node based utilities
- Route based utilities
- Diagnostic utilities
- Performance tuning guidelines

Troubleshooting Best Practices

- Troubleshooting using PM counters
- Troubleshooting using OpenSM logs
- Troubleshooting case studies
- Troubleshooting best practices

Optional Train Topics (Not included in the default training duration)

Advanced Features

- Sharp overview and configuration
- Self-healing (Shield) overview and configuration
- Adaptive routing

UFM Enterprise

- UFM dashboard functionality
- How to monitor the fabric
- How to analyze congestion
- How to manage devices

Monitoring and Troubleshooting Best Practices

- Troubleshooting using PM counters
- Troubleshooting using OpenSM logs
- Troubleshooting case studies
- SNMP configuration
- Email notifications configuration
- remote logging configuration
- opensm logs
- Scheduled fabric scan task
- Automatic switch backup configuration
- Automatic switch dump scheduled task

Virtualization

- SRIOV overview
- SRIOV configuration