InfiniBand Professional Training

Customized Instructor Led Remote Training
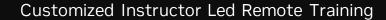
ACADEMY

TRAINING DELIVERY METHOD

Remote instructor-led training.
Training includes access to hands-on environment based on real switches and servers.

TRAINING DURATION

4 sessions of up to 4.5 hours.

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
  - Protocols overview

Fabric Management

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

InfiniBand Drivers and Tools

- OFED for Linux/Windows overview
- Upgrading OFED version
- Burning firmware
- OFED utilities overview
- Cluster based utilities
- Node based utilities
- Diagnostic utilities

Advanced topics

- Shield overview and configuration
- Fabric partitioning
- Adaptive routing overview and configuration
- Sharp overview and configuration
- IPoIB
- RoCE

UFM

- Overview
- UFM telemetry
- UFM (GUI/REST-API)
- UFM GUI Screens in-depth review
  - Dashboard
  - Alarms & Events
  - Telemetry
  - System Health
- Installation Basic Stages (UFM user manual)
- Initial Configuration license& gv.cfg file
- Monitoring and Troubleshooting InfiniBand Fabrics with UFM GUI