InfiniBand Fundamentals

Why should I take this course?

InfiniBand is a high-speed server-interconnect technology. Its greater speed, lower latency, and greater scalability are among its many advantages, and it has become the primary alternative to Ethernet as the interconnect protocol of choice.

Knowledge is power! Whether you are looking to maximize your Mellanox experience, seeking new career opportunities, or trying to become a foremost expert in interconnect technologies, this is the place to acquire the necessary knowledge and skills.

What you will learn

This course provides the fundamentals for the InfiniBand technology from a usability point of view and builds on the details of the InfiniBand architecture specification. It is designed to meet the needs of anyone who installs, configures, manages, troubleshoots or monitors InfiniBand fabrics. This course combines InfiniBand theory of operations through a series of interactive units, simulators, videos and on-line learning resources that provide a comprehensive learning approach to the high performance network arena.

Course Topics

* InfiniBand Introduction
* InfiniBand Architecture
* Fabric Management
* InfiniBand Drivers
* InfiniBand Utilities and Tools

Course Objectives

* Describe the InfiniBand (IB) protocol foundations
* List and describe the main features of Infiniband fabrics
* List the main InfiniBand topologies and their pros and cons
* Describe the layer structure of InfiniBand Architecture
* Describe the basic management concepts and functions of InfiniBand fabrics
* Perform basic operations with the Subnet Manager that are related to the management of the fabric
* Operate basic SM operations of an InfiniBand switch using its CLI
* Describe the processes during the fabric initialization process
* Read management outputs from the fabric and underrated their implications
* List the common OFED commands and their usage
* Perform management and diagnostic tasks with OFED commands

Course Duration

11 Hours

Target Audience

Network administrators, network architects, IT managers, and technicians who work or intend to work in an InfiniBand environment

Course Prerequisites

General understanding of networking concepts and principles

What’s inside?

* Interactive self-paced courseware
* Videos
* Summary Exam
* Related documentation according to course topics
* Simulators
* Summary Exam and exercises for knowledge implementation

Related Courses

* Working with Mellanox OFED in InfiniBand Environments
* Product based courses of InfiniBand switches and Host Channel Adapters