XJRoute Training

Training delivered by Xperts – Whether at the training center or at your own premises, whether it is training-on-the-job as part of a project or special training tailored to your requirements.

Course description:

XJRoute training covers the operation, configuration and troubleshooting of Juniper M / T series and MX series routers. It covers the basic configuration of JUNOS™ as well as the functioning and implementation of routing protocols on Juniper routers.

The 5-day course contains lab exercises where theory can be put into practice. Each participant works on his own router and can carry out a multitude of configuration steps, from basic configuration through to complex network topologies.

To take part in the XJRoute training participants should be familiar with the TCP/IP family of protocols and have some basic knowledge of how routing protocols work. Some experience with the configuration of routers supplied by other manufacturers would be helpful but not required.

Detail:

JUNOS Routing Platform
- JUNOS Routing Platform Hardware Overview
- Platform Architecture and Components
- Packet Flow and ASIC Functionality

JUNOS Software CLI
- Access to the JUNOS CLI
- CLI Operational Mode and Configuration Mode
- JUNOS Software Overview
- Software Installation
- Initial System Configuration

Interface Configuration and Troubleshooting
- Interface Configuration Overview

Protocol Independent Routing Properties
- JUNOS Software Routing Tables and Route Selection Process
- Static Routes
- Aggregate and Generated Routes
- Martian Routes

Routing Policy
- Policy Overview
- Match Conditions and Route Manipulation Actions
- Route Filters
- Applying Policy

OSPF Operation, Configuration and Troubleshooting
- OSPF Protocol Overview
- Adjacency Formation and DR Election
- OSPF Multiarea Operation
- Stub Areas and Summarization
- Configuring, Monitoring and Troubleshooting OSPF Operation

IS-IS Operation, Configuration and Troubleshooting
- IS-IS Overview
- IS-IS PDUs
- Multiarea IS-IS
- Route Leaking
- Configuration and Monitoring IS-IS Operation

Border Gateway Protocol Operation, Configuration and Troubleshooting
- BGP Protocol Overview
- BGP Attributes
- BGP Route Selection
- Route Reflection and Confederations
- Configuring and Monitoring BGP in JUNOS Software

Firewall Filters
- Overview of Firewall Filter Syntax
- Match Conditions and Filter Actions
- Applying Firewall Filters

Multicast Theory and Configuration
- Basic Concepts of IP Multicast
- Internet Group Membership Protocol (IGMP)
- Multicast Routing and Protocol Independent Multicast (PIM)
- Configuring IP Multicast

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