

# Junos Intermediate Routing EDU-JUN-JIR

Underleverantör: IP-Solutions

## Datum

- 17-18 May, 2011  
Stockholm

This two-day course provides students with intermediate routing knowledge and configuration examples. The course includes an overview of protocol independent routing features, load balancing and filter-based forwarding, OSPF, BGP, IP tunneling, and high availability (HA) features. This course is based on the Junos operating system Release 10.1R1.8.

Through demonstrations and hands-on labs, students will gain experience in configuring and monitoring the Junos OS and monitoring device operations.

## Målgrupp

This course benefits individuals responsible for configuring and monitoring devices running the Junos OS.

## Förkunskaper

Students should have basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) model and the TCP/IP protocol suite. Students should also attend the *Introduction to the Junos Operating System (IJS)* and *Junos Routing Essentials (JRE)* courses prior to attending this class.

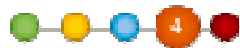
## Övrigt

This course is available as scheduled training and the presentation is given in Swedish. The course is mixing theory and practical exercises. We can also give this course as on-site training. If you are interested in customized education, don't hesitate to contact us for further information.

## Längd

2 dagar

## Svårighetsgrad



## Agenda

### Course Introduction

### Protocol-Independent Routing

- Static Routes
- Aggregated Routes
- Generated Routes
- Martian Addresses
- Routing Instances
- Lab 1: Protocol-Independent Routing

## Load Balancing and Filter-Based Forwarding

- Overview of Load Balancing
- Configuring and Monitoring Load Balancing
- Overview of Filter-Based Forwarding
- Configuring and Monitoring Filter-Based Forwarding
- Lab 2: Load Balancing and Filter-Based Forwarding

## Open Shortest Path First

- Overview of OSPF
- Adjacency Formation and the DR Election
- OSPF Scalability
- Configuring and Monitoring OSPF
- Basic OSPF Troubleshooting
- Lab 3: Open Shortest Path First

## Border Gateway Protocol

- Overview of BGP
- BGP Attributes
- IBGP Versus EBGP
- Configuring and Monitoring BGP
- Lab 4: Border Gateway Protocol

## IP Tunneling

- Overview of IP Tunneling
- GRE and IP-IP Tunnels
- Implementing GRE and IP-IP Tunnels
- Lab 5: IP Tunneling

## High Availability

- Overview of High Availability Networks
- GR
- Graceful RE Switchover
- Nonstop Active Routing
- BFD
- VRRP
- Lab 6: High Availability

## Appendix A: IPv6

- Introduction to IPv6
- Routing Protocol Configuration Examples
- Tunneling IPv6 over IPv4

## Appendix B: IS-IS

- Overview of IS-IS
- Overview of IS-IS PDUs
- Adjacency Formation and DIS Election
- Configuring and Monitoring IS-IS

- Basic IS-IS Troubleshooting