



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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CODE:	LENGTH:	PRICE:
JUN_JSEC	40 Hours (5 dage)	kr 26,686.00

Description

This five-day course covers the configuration, operation, and implementation of SRX Series Services Gateways in a typical network environment. Key topics within this course include security technologies such as security zones, security policies, Network Address Translation (NAT), IP Security (IPsec), and high availability clusters, as well as details pertaining to basic implementation, configuration, management, and troubleshooting.

Through demonstrations and hands-on labs, students will gain experience in configuring and monitoring the Junos OS and monitoring device operations. This course uses Juniper Networks SRX Series Services Gateways and Security Director for the hands-on component. This course is based on Junos OS Release 15.1X49-D70.3 and Junos Space Security Director 16.1. Junos Security (JSEC) is an intermediate-level course.

Objectives

After successfully completing this course, you should be able to perform the following:

- Describe traditional routing and security and the current trends in internetworking.
- Provide an overview of SRX Series devices and software architecture.
- Describe the logical packet flow and session creation performed by SRX Series devices.
- Describe, configure, and monitor zones.
- Describe, configure, and monitor security policies.
- Describe, configure, and monitor user firewall authentication
- Describe various types of network attacks.
- Configure and monitor Screen options to prevent network attacks.
- Explain, implement, and monitor NAT, as implemented on Junos security platforms.
- Explain the purpose and mechanics of IP Security (IPsec) virtual private networks (VPNs).
- Implement and monitor policy-based and route-based IPsec VPNs.
- Describe, configure, and monitor high availability chassis clusters.
- Describe how to deploy and manage vSRX.
- Describe and configure Group VPNs.
- Describe and configure ADVPNs.
- Troubleshoot chassis clusters, IPsec VPNs, zones, and Security Policies

Audience

The course benefits operators of SRX Series devices. These operators include network engineers, administrators, support personnel, and reseller support personnel.

Prerequisites

Students should have basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/IP protocol suite. Students should also attend the Introduction to the Junos Operating System (IJOS) course, or have equivalent experience prior to attending this class.

Programme

- Traditional Routing
 - Traditional Security
- Day 1 Chapter 1: Course Introduction Chapter 2: Introduction to Junos Security • The Junos OS Architecture Chapter 3: Zones

- The Definition of Zones
 - Zone Configuration
 - Monitoring Security Zones
 - Screen Options
- Lab 1: Configuring and Monitoring Zones Chapter 4: Security Policies
- Session Management
 - Junos ALGs
 - Policy Scheduling
 - Logging
 - Troubleshoot Security Zones
 - Troubleshoot Security Policies
- Lab 2: Security Policies Day 2 Chapter 5: Advanced Policy Options
- Chapter 6: Troubleshooting Security Zones and Policies
- Lab 3: Troubleshooting Security Zones and Policies Chapter 7: Network Address Translation
- NAT Overview
 - Source NAT Operation and Configuration
 - Destination NAT Operation and Configuration
 - Static NAT Operation and Configuration
 - Proxy ARP
 - Monitoring and Verifying NAT Operation
 - NAT Interaction with Policy and ALGs
 - DNS Doctoring
 - Cone NAT
 - Multi-Tenant NAT
 - IPv4-to-IPv6 NAT
 - Advanced NAT Scenarios
 - VPN Types
 - Secure VPN Requirements
 - IPsec Overview
 - IPsec Details
- Lab 4: Network Address Translation Day 3 Chapter 8: Advanced NAT Concepts
- Lab 5: Advanced NAT Implementations Chapter 9: IPsec VPN Concepts
- Configuration of IPsec VPNs
 - IPsec VPN Case Studies
 - Monitoring IPsec VPN
 - Traffic Selectors
 - Group VPN Overview
 - GDOI Protocol
- Lab 6: Implementing IPsec VPNs Day 4 Chapter 11: Group VPNs
- Group VPN Configuration and Monitoring
 - ADVPN Overview
 - ADVPN Member Roles
 - Shortcut Termination
 - Routing with ADVPNs
 - IKEv2
- Lab 7: Implementing Group VPNs Chapter 12: ADVPNs
- ADVPN Implementation
 - Routing over VPNs
 - NAT with IPsec
- Lab 8: Implementing ADVPNs
- Chapter 13: IPsec VPN Case Studies and Solutions
- Lab 9: Implementing Routing over VPN Tunnels and IPsec Best Practices Chapter 14: Troubleshooting IPsec
- IKE Phase 1 Troubleshooting
 - IKE Phase 2 Troubleshooting
 - Case Studies
 - vSRX Overview
 - Installation of vSRX
 - Chassis Clustering
 - Deployment Scenarios and Use Cases
 - Automated Deployments Options
 - AWS Deployment Scenarios
- Lab 10: Troubleshooting IPsec Day 5 Chapter 15: Virtualized SRX
- Chapter 16: High Availability Clustering Theory
- Chassis Cluster Configuration
 - Chassis Cluster Monitoring
- Chapter 17: High Availability Clustering Implementation
- Lab 12: Implementing High Availability Techniques Chapter 18: Troubleshooting Chassis Clusters
- Chassis Cluster Troubleshooting
 - Case Studies
 - IDP Policy Components and Configuration
- Lab 13: Troubleshooting Chassis Clusters
- Branch SRX Platform Overview
 - High-End SRX Platform Overview
 - SRX Traffic Flow and Distribution
 - SRX Interfaces
- Appendix A: SRX Series Hardware and Interfaces
- High Availability Overview
 - Chassis Cluster Components
 - Advanced Chassis Cluster Topics

Session Dates

På anmodning. [Kontakt os venligst](#)

Yderligere Information

Denne træning er også tilgængelig som træning på stedet. Kontakt os for at finde ud af mere.