

Advanced Junos Security

A 5 day **Hands on** training course



Description

This course is designed to build off of the current Junos Security offering, delving deeper into Junos security. Through demonstrations and hands-on labs, you will gain experience in configuring and monitoring the advanced Junos OS security features with advanced coverage of virtualization, AppSecure, advanced Network Address Translation (NAT) deployments, Layer 2 security, and Sky ATP.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Demonstrate the understanding of integrated user firewall.
- ✓ Implement next generation Layer 2 security features
- ✓ Implement virtual routing instances in a security setting.
- ✓ Utilize Junos tools for troubleshooting Junos security implementations.
- ✓ Implement IPS policy.



Training Approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



Details

Who will benefit?

Individuals responsible for implementing, monitoring, and troubleshooting Junos security components.

Prerequisites

Junos Security

Duration: 5 days

Overall rating:



Generic Training



Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

"Friendly environment with expert teaching that teaches the why before the how."
G.C. Fasthosts

Small Class Sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

"Excellent course. The small class size was a great benefit..."
M.B. IBM

Hands On Training



The majority of our courses use hands on sessions to reinforce the theory.

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."
J.W. Vodafone

Our Courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

"Comprehensive materials that made the course easy to follow and will be used as a reference point."
V.B. Rockwell Collins

Customise Your Course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."
S.R. Qinetiq

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Course Content

Course Introduction

Junos Layer 2 Packet Handling and Security Features

- Transparent Mode Security
- Secure Wire
- Layer 2 Next Generation Ethernet Switching
- MACsec
- Lab 2: Implementing Layer 2 Security

Virtualization

- Virtualization Overview
- Routing Instances
- Logical Systems
- Lab 3: Implementing Junos Virtual Routing

AppSecure Theory

- AppSecure Overview
- AppID Overview
- AppID Techniques
- Application System Cache
- Custom Application Signatures

AppSecure Implementation

- AppTrack
- AppFW
- AppQoS
- APBR
- SSL Proxy
- Lab 4: Implementing AppSecure

Working with Log Director

- Log Director Overview
- Log Director Components
- Installing and setting up Log Director
- Clustering with the Log Concentrator VM
- Administrating Log Director
- Lab 5: Deploying Log Director

Sky ATP Theory

- Sky ATP Overview
- Monitoring Sky ATP
- Analysis and Detection of Malware

Sky ATP Implementation

- Configuring Sky ATP
- Installing Sky ATP
- Analysis and detection of Malware
- Infected Host Case Study
- Lab 6: Instructor Led Sky ATP Demo

Implementing UTM

- UTM Overview
- AntiSpam
- AntiVirus
- Content and Web Filtering
- Lab 7: Implementing UTM

Introduction to IPS

- IPS Overview
- Network Asset Protection
- Intrusion Attack Methods
- Intrusion Prevention Systems
- IPS Inspection Walkthrough

IPS Policy and Configuration

- SRX IPS Requirements
- IPS Operation Modes
- Basic IPS Policy Review
- IPS Rulebase Operations
- Lab 8: Implementing Basic IPS Policy

SDSN

- SDSN Overview, Components & Configuration
- Policy Enforcer Troubleshooting
- SDSN Use Cases
- Lab 9: Implementing SDSN

Enforcement, Monitoring, and Reporting

- User Role Firewall and Integrated User Firewall Overview
- User Role Firewall Implementation
- Monitoring User Role Firewall
- Integrated User Firewall Implementation
- Monitoring Integrated User Firewall
- Lab 10: Configure User Role Firewall and Integrated User Firewall

Troubleshooting Junos Security

- Troubleshooting Methodology
- Troubleshooting Tools
- Identifying IPsec Issues
- Lab 11: Performing Security Troubleshooting Techniques

Appendix A: SRX Series Hardware and Interfaces

- Branch SRX Platform Overview
- High End SRX Platform Overview
- SRX Traffic Flow and Distribution
- SRX Interfaces

