



TRAINING OFFERING

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Juniper Security - 5 days

CODE:	LENGTH:	PRICE:
JUN_JSEC	5 days	£2,695.00

Description

This five-day course uses the Junos J-Web, CLI, Junos Space, and other user interfaces to introduce students to the concept of Juniper Connected Security.

Key topics include tasks for advanced security policies, application layer security using the AppSecure suite, IPS rules and custom attack objects, Security Director management, Sky ATP management, JATP management, JSA management, Policy Enforcer management, JIMS management, Juniper Sky Enterprise usage, vSRX and cSRX usage, SSL Proxy configuration, and SRX chassis clustering configuration and troubleshooting.

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

This course is based on Junos OS Release 19.1R1.6, Junos Space 19.1R1, Security Director 19.1R1, JATP 5.0.6.0, JSA v7.3.2, Policy Enforcer 19.1R1, and JIMS 1.1.5R1.

- Security
- Junos OS
- SRX Series

Junos Security (JSEC) is an intermediate-level course. Relevant Juniper Product • vSRX Series

Objectives

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

- Identify security challenges in today's networks.
- Identify products that are incorporated into the Juniper Connected Security solution.
- Explain the value of implementing security solutions.
- Explain how Juniper Connected Security solves the cyber security challenges of the future.
- Explain SRX Series session management.
- Explain Junos ALG functions and when to use them.
- Describe policy logging on the SRX series device.
- Explain security policy scheduling.
- Describe application security theory.
- Explain application signature usage in AppID.
- Describe the AppTrack service.
- Describe the AppFW service.
- Describe the AppQoS service.
- Configure security policies using the AppSecure suite of services.
- Explain unified security policies.
- Describe IPS signatures.
- Configure an IPS policy using pre-defined templates.
- Describe how to update the IPS attack object database.
- Describe IPS rules and rule bases.
- Configure custom attack objects.
- Describe Junos Space and Security Director.
- Configure policy management using Security Director.
- Describe Security Director objects.
- Explain the different licensing options for Sky ATP
- List Sky ATP's features and benefits.
- Configure Sky ATP profiles and enroll an SRX Series device.
- Configure file scanning on Sky ATP.
- Configure Sky ATP to scan email
- Configure GeolIP on Sky ATP.
- Describe the JATP features and benefits
- List the JATP device options.
- Explain the JATP architecture.
- List 3rd party support options for JATP.
- Explain JATP SmartCore analytics processes.
- Describe Policy Enforcer configuration options.
- Describe Policy Enforcer integration with Sky ATP.
- Configure Policy Enforcer to block lateral malware movement.
- Explain Juniper Secure Analytics features and benefits.
- Describe JSA log collection.
- Describe JSA network flow collection.
- Describe the JSA Offense Management workspace.
- Explain the JSA Risk Manager features.
- Configure JSA to collect network and log collection.
- Explain the features of JIMS.
- Describe JIMS integration into the current AD network.
- Describe the Sky Enterprise service and how it can save resources.
- Explain the Sky Enterprise monitoring service.
- Explain the vSRX Series device benefits.
- Describe use cases for the vSRX.
- Explain the cSRX Series device benefits.
- Describe use cases for the cSRX.
- Describe SSL Proxy Concepts.
- Explain Forward and Reverse Proxy and the limitations of each.
- Configure both Forward and Reverse Proxy.
- Troubleshoot SSL Proxy configurations.
- Explain how to cluster the SRX Series.
- Describe chassis cluster interfaces.
- Explain advanced chassis clustering options.
- Configure chassis clustering on the vSRX.
- Troubleshoot chassis clustering on the vSRX.

Audience

The primary audiences for this course are the following:

- Operators of Juniper Networks security solutions, including network engineers, administrators, support, personnel, and resellers.

Prerequisites

The following are the prerequisites for this course:

- Students should have basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/ IP protocol suite; and
- Successful completion of the Introduction to Junos Security (IJSEC) course.

Programme

LAB 1: CLI Overview

CLI Overview

- User Interface Options
- Command-Line Interface
- Initial Configuration

Advanced Security Policy

- Session Management
- Junos ALGs
- Policy Scheduling
- Policy Logging

Day 1 Course Introduction

Application Security Theory

- Application ID
- Application Signatures
- App Track
- App Firewall
- App QoS
- App QoE

Application Security Implementation

- AppTrack Implementation
- AppFW Implementation
- AppQoS Implementation
- APBR Implementation

Security Director

- Overview
- Security Director Objects

LAB 2: Advanced Security Policy

Intrusion Detection and Prevention

- IPS Overview
- IPS Policy
- Attack Objects
- IPS Configuration
- IPS Monitoring

LAB 3: Application Security

LAB 4: Implementing IPS Day 2

Sky ATP Implementation

- Architecture and Key Components
- Features and Benefits
- Configuration
- Compromised Hosts
- Command and Control
- File Scanning
- E-mail Scanning
- Geo IP
- Security Policy Integration
- Troubleshooting

LAB 5: Security Director

Policy Enforcer

- Policy Enforcer Concepts
- Configuration Options
- Policy Enforcer Installation

LAB 6: Sky ATP Implementation

JATP Implementation

- Data Collectors
- Configure SmartCore Analytics Engine
- Log Ingestion
- Incident Management
- SRX Threat Prevention
- 3rd Party support for Threat Prevention
- Reporting

JATP Overview

- Traffic Inspection
- Threat Detection
- Threat Analysis
- JATP Architecture

Juniper Secure Analytics (JSA)

- JSA Overview
- Data Collection
- Log Analytics
- Threat Analytics
- Vulnerability Management
- Risk Management

LAB 7: Policy Enforcer Day 3

LAB 8: JATP

LAB 9: JSA Day 4

JIMS

- JIMS Overview
- JIMS Integration

- vSRX Overview
- vSRX Supported Features
- vSRX Use Cases

LAB 10: JIMS vSRX and cSRX

cSRX Overview

LAB 11: vSRX Installation

SSL Proxy

- SSL Proxy Overview
- SSL Concepts
- SSL Proxy Configurations
- Troubleshooting

LAB 12: SSL Proxy Day 5

Cluster Concepts

Chassis Cluster Implementation

- Chassis Cluster Concepts
- Chassis Cluster Configuration
- Chassis Cluster Operation
- Chassis Cluster Advanced Options

Chassis Cluster Troubleshooting

- Chassis Cluster Case Studies

LAB 13: Chassis Cluster Implementation

Troubleshooting Examples

LAB 14: Chassis Cluster Troubleshooting

Please note that the following Appendices are not covered as standard during the training course unless requested by the customer, and agreed with Arrow, upon booking:

Appendix A: Juniper Sky Enterprise

Appendix B: SRX Series Hardware and Interfaces

Follow on courses

Recommended Next Course Advanced Junos Security (AJSEC)

Test and Certification

Associated Certification JNCIS-SEC

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
07 Feb 2022	London - Dowgate Hill	GMT	English	Classroom		£2,695.00
07 Feb 2022	Virtual Classroom	GMT	English	Instructor Led Online		£2,695.00
25 Apr 2022	London - Dowgate Hill	BST	English	Classroom		£2,695.00
25 Apr 2022	Virtual Classroom	BST	English	Instructor Led Online		£2,695.00
27 Jun 2022	London - Dowgate Hill	BST	English	Classroom		£2,695.00
27 Jun 2022	Virtual Classroom	BST	English	Instructor Led Online		£2,695.00
26 Sep 2022	London - Dowgate Hill	BST	English	Classroom		£2,695.00
26 Sep 2022	Virtual Classroom	BST	English	Instructor Led Online		£2,695.00
14 Nov 2022	London - Dowgate Hill	GMT	English	Classroom		£2,695.00
14 Nov 2022	Virtual Classroom	GMT	English	Instructor Led Online		£2,695.00

Additional Information

This training is also available as onsite training. [Please contact us to find out more.](#)