



## JUNIPER SRX FIREWALL/VPN - TRAINING CURRICULUM

Juniper Networks Educational Services helps ensure that you have the knowledge and skills to deploy and maintain cost-effective, high-performance networks, as well as demonstrate your technical expertise and keep you ahead of the technology curve. Our technical education courses are designed to give you the technical detail and capabilities you require to ensure that your network operates securely and at peak performance.



JNCIS-SEC = IJS + JRE + JSEC

### JUNOS for Security Platforms (JSEC)

#### Course Overview

This three-day course provides students with the skills for configuration, operation, and implementation of JUNOS security platforms in a typical network environment. This course is based on JUNOS Software version 9.5R1.8.

Through demonstrations and hands-on labs, students will gain experience in configuring and monitoring JUNOS Software for JUNOS security platforms.

#### Objectives

- After successfully completing this course, you should be able to:
- Describe traditional routing and security and the current trends in internetworking;
- Provide an overview of the JUNOS security platforms and software architecture;
- Describe the logical packet flow and session creation performed by JUNOS security platforms;
- Describe, configure, and monitor zones;
- Describe, configure, and monitor security policies;
- Describe, configure, and monitor firewall user 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 IPsec VPNs;
- Implement and monitor policy-based and route-based IPsec VPNs;
- Utilize and update the IDP signature database on JUNOS security platforms;
- Configure and monitor IDP policy with policy templates; and
- Describe, configure, and monitor high availability chassis clusters.

#### Intended Audience

This course benefits operators of JUNOS security platforms. These operators include network engineers, administrators, support personnel, and reseller support personnel

#### Course Level

This is an intermediate-level course.

#### Prerequisites

Students should have basic networking knowledge and an understanding of the OSI model and the TCP/IP protocol suite. Students should also either attend the Introduction to JUNOS Software (IJS) and JUNOS Routing Essentials (JRE) courses prior to attending this class, or have equivalent experience with JUNOS Software.

#### Course Contents

##### Day 1

##### Chapter 1: Course Introduction

##### Chapter 2: Introduction to JUNOS security platforms

- Traditional Routing
- Traditional Security
- Breaking the Tradition
- JUNOS Software Architecture

##### Chapter 3: Zones

- The Definition of Zones
- Zone Configuration
- Monitoring Security Zones
- Lab 1: Configuring and Monitoring Zones

##### Chapter 4: Security Policies

- Security Policy Overview
- Policy Components



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- Verifying Policy Operation
- Policy Scheduling and Rematching
- Policy Case Study
- Lab 2: Security Policies

## Day 2

### Chapter 5: Firewall User Authentication

- Firewall User Authentication Overview
- Pass-Through Authentication
- Web Authentication
- Client Groups
- Using External Authentication Servers
- Verifying Firewall User Authentication
- Lab 3: Configuring Firewall Authentication

### Chapter 6: SCREEN Options

- Multilayer Network Protection
- Stages and Types of Attacks
- Using JUNOS Software SCREEN Options
- Applying and Monitoring SCREEN Options
- Lab 4: Implementing SCREEN Options

### Chapter 7: Network Address Translation

- NAT Overview
- Destination NAT Operation and Configuration
- Source NAT Operation and Configuration
- Proxy ARP
- Monitoring and Verifying NAT Operation
- Lab 5: Network Address Translation

## Day 3

### Chapter 8: IPsec VPNs

- VPN Types
- Secure VPN Requirements
- IPsec Details
- Configuration of IPsec VPNs
- IPsec VPN Monitoring
- Lab 6: Implementing IPsec VPNs

### Chapter 9: Introduction to Intrusion Detection and Prevention

- Introduction to JUNOS Software IDP
- IDP Policy Components and Configuration
- Attack and Signature Database
- Case Study: Applying the Recommended IDP Policy
- Monitoring IDP Operation
- Lab 7: Implementing IDP

### Chapter 10: High Availability Clustering

- High Availability Overview
- Chassis Cluster Components
- Chassis Cluster Operation
- Chassis Cluster Configuration
- Chassis Cluster Monitoring
- Lab 8: Implementing Chassis Clustering

Cost AUD \$2,099 inc. GST

**J EDUCATION**  
Authorized Education Center

#### Certification: **(JNCIS-SEC)**

*Juniper Networks Certified Internet Specialist*

**Exam code:** JN0-331

**Exam:** Prometric testing [www.2test.com](http://www.2test.com)

**Exam length:** 90 minutes

**Exam type:** 75 multiple-choice questions

**Passing grade:** 70%

#### **Recommended Training:**

OJRE + JSEC

Available Dates: [www.crystalecho.com](http://www.crystalecho.com)

#### Terms and Conditions

- Students will be required to supply their own notebook PC with network card and serial port
- 50% refunded if cancelled in less than 10 working days before course
- 25% refunded if cancelled in less than 5 working days before course