Introduction to Juniper Security

Category: Networking & Security | **Vendor:** Juniper

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This three-day course provides students with the foundational knowledge required to work with the Junos operating system and to configure Junos security devices.

The course provides a brief overview of the Juniper security products and discusses the key architectural components of the Junos software.

Key topics include UI options with a heavy focus on CLI, configuration tasks typically associated with the initial setup of devices, interface configuration basics with configuration examples, secondary system configuration, and the basics of operational monitoring and maintenance of Junos Security devices.

The course then delves into foundational knowledge of security objects, security policies, and configuration examples including types of security objects, security policies, security services NAT, site-to-site IPsec VPN, and Juniper Secure Connect VPN.

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

This course is based on Junos OS Release 21.2R1.10.

About This Course

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Who Should Attend

This course benefits individuals responsible for configuring and monitoring Juniper Security devices.

Prerequisites & Entry Requirements

General Prerequisites:

- Basic networking knowledge
- Basic understanding of the Open Systems Interconnection (OSI) reference model
- Basic understanding of the TCP/ IP protocol suite

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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

- Describe Juniper Networks connected security device framework
- Describe SRX Series device features
- Describe initial and basic configuration
- Describe and demonstrate the Junos CLI options
- Configure security zone and screen objects
- Configure address and service objects
- Implement security policies
- Describe IPS and implement IPS policies
- Describe user-based firewall and implement integrated user-based firewall
- Describe UTM—Antivirus and Antispam
- Describe UTM—Content Filtering and Web Filtering
- Describe JATP Cloud Features
- Implement Source NAT
- Implement Destination and Static NAT
- Implement Site-to-Site IPsec VPN
- Describe SSL VPN by using Juniper Secure Connect
- Administer and Troubleshoot Security Services on an SRX Series Device
- Describe Monitoring and Reporting Features on the SRX Series Device

Detailed Course Outline

DAY 1

Course Introduction

Juniper Connected Security

- Identify the high-level security challenges in today’s network
- Describe basic network security design
- Identify the key factors in Juniper Networks security focus

Juniper SRX Overview

- Describe the Junos architecture and SRX feature
- Explain the traffic processing and logical packet flow on an SRX Series device
- Describe the Junos J-Web UI and its features

Juniper SRX Initial Configuration

- List and perform initial configuration tasks
- Perform basic interface configuration tasks

Lab 1: Initial System Configuration

UI Options – The Junos CLI

- Perform Junos CLI basics
- Describe Junos operational mode
- Describe Junos configuration mode

Security Zones and Screen Objects

- Describe and configure security zones objects
- Describe and configure screen objects

Address Objects and Service Objects

- Describe and configure address objects
- Describe and configure service objects

Lab 2: Creating Security Objects

DAY 2

Security Policies

- Describe the purpose and types of security policies
- Define the security policy components
- Configure an application firewall with unified security policies
- Implement security policy for a given use case

Lab 3: Creating Security Policies

Security Services—IPS

- Explain the purpose of IPS

- Define the IPS policy components

- Configure IPS policies

Security Services—Integrated User-Based Firewall

- Explain the purpose of user-based firewall

- Configure integrated user-based firewall

Lab 4: Security Services—IPS Integrated User Firewall

UTM—Antivirus and Antispam

- Describe the purpose of UTM services

- Explain antispam and its functionality

UTM—Content Filtering and Web Filtering

- Explain the functionality of Content filtering

- Explain the functionality of Web filtering

Lab 5: Implementing UTM Virtual SRX

Juniper Connected Security—JATP Cloud

- Explain the purpose of JATP
- Describe the features of JATP
- Describe the process to enroll devices with JATP cloud
- Monitor JATP

Lab 6: JATP Overview

DAY 3

Source Network Address Translation

- Describe the purpose and functionality of NAT and PAT
- Configure and monitor source NAT
- Explain the purpose of proxy ARP

Destination Network Address Translation and Static Network Address Translation

- Configure and monitor destination NAT
- Configure and monitor static NAT

Lab 7: Implementing NAT

Site-to-Site IPsec VP

- Describe the high-level overview and configuration options for IPsec VPN

- Implement IPsec VPN for a given use case
- Describe the functionality of proxy-id and traffic selectors
- Monitor site-to-site IPsec VPN

Lab 8: Implementing IPsec VPN

Juniper Secure Connect

- Describe Juniper Secure Connect features
- Explain Juniper Secure Connect UI options
- Deploy Juniper Secure Connect
- Monitor Juniper Secure Connect

Lab 9: Implementing Juniper Secure Connect

SRX Troubleshooting

- Discuss SRX and vSRX licensing
- Describe how to use packet capture
- Describe the traceoptions on the SRX Series device
- Discuss how to verify Content Security policy usage

Monitoring and Reporting

- Explain the basic monitoring features
- Explain the use of network utility tools on the SRX Series device
- Describe the procedure of maintaining Junos OS

- Identify the various reports available on SRX J-Web interface

Lab 10: Monitoring and Reporting

The following appendices can be covered - time permitting - if requested by the delegate/s at the time of booking the course:

- SRX Series Hardware and Interfaces
- Virtual SRX
- Juniper Sky Enterprise
- IPsec VPN Concepts

Skills You Will Learn:

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Frequently Asked Questions

Q: What delivery options are available for Introduction to Juniper Security?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Introduction to Juniper Security course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Introduction to Juniper Security training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Introduction to Juniper Security?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to Juniper Security. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Introduction to Juniper Security, Junos Security, IJSEC

Q: Why choose Nexus Human for Introduction to Juniper Security?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Introduction to Juniper Security training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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