

Juniper Security

COURSE OVERVIEW

This four-day, intermediate-level course provides students with the knowledge required to work with Juniper Connected Security devices. This course uses Junos CLI, Junos Space® Security Director. The course provides further instruction on how Juniper Networks approaches a complete security solution for current and future security problems, called Juniper Connected Security. Key topics include tasks for intrusion detection and prevention (IDP) rules and custom attack objects, IPsec VPNs, Security Director management, Juniper® Advanced Threat Prevention management (ATP) Cloud management, Policy Enforcer management, Identity aware security policies, Secure Sockets Layer (SSL) Proxy configuration, and Juniper Networks® SRX Series Firewalls high availability configuration and troubleshooting. Through demonstrations and hands-on labs, students will gain experience with the features of each of these devices.

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 24.2R1, Junos Space 23.1R1, Security Director 23.1R1, and JIMS 1.7.0R2.

COURSE LEVEL

[Juniper Security](#) is an intermediate course.

AUDIENCE

Individuals responsible for security operations using Juniper Networks security solutions, including network engineers, security engineers, administrators, support personnel, and resellers.

PREREQUISITES

- Basic networking knowledge and an understanding of the OSI reference model and the TCP/ IP protocol suite
- Completion of the [Introduction to Juniper Security](#) course

RELATED CERTIFICATION

[JNCIS-SEC](#)

RELATED JUNIPER PRODUCTS

Junos OS, SRX Series, Juniper ATP Cloud, Security Director, JIMS

RECOMMENDED NEXT COURSE

[Advanced Juniper Security](#)

OBJECTIVES

- Explain the basics of intrusion detection.
- Explain the function of SSL Proxy.
- Explain IPsec VPN concepts.
- Implement site-to-site IPsec VPNs.
- Implement Juniper® Secure Connect.
- Implement identity-aware security policies.
- Explain Security Director.
- Introduce Policy Enforcer.
- Describe the Juniper ATP Cloud Anti-Malware.
- Describe the Juniper ATP Cloud features.

Contact Juniper Education Services: Americas: training-amer@juniper.net | EMEA: training-emea@juniper.net | APAC: training-apac@juniper.net

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Course Outline

- Explain the concepts of a chassis cluster.
- Explain how to set up a chassis cluster.
- Review troubleshooting steps for chassis clusters.
- Explain how to set up a chassis cluster.

COURSE CONTENTS

DAY 1

Module 1: Implementing Intrusion Detection and Prevention

- Describe the purpose of IDP
- Utilize and update the IDP signature database
- Configure an IDP policy
- Utilize and configure an IDP policy using a template
- Monitor IDP operations

Lab 1: Implementing IDP

Module 2: Implementing SSL Proxy

- Explain why SSL proxy is necessary
- Describe and configure client-protection SSL proxy
- Describe and configure server-protection SSL proxy
- Discuss how to monitor SSL proxy
- Explain the SSL mirror decrypt feature

Lab 2: Implementing SSL Proxy

Module 3: IPsec VPN Concepts

- Identify various types of VPNs
- Describe IPsec VPNs and their functionalities
- Describe how IPsec VPNs are established
- Describe IPsec traffic processing

Module 4: Implementing Site-to-Site IPsec VPNs

- Describe the high-level configuration options for an IPsec VPN
- Describe the functionality of proxy IDs and traffic selectors
- Configure an IPsec site-to-site VPN
- Monitor a site-to-site IPsec VPN

Lab 3: Implementing Site-to-Site IPsec VPNs

DAY 2

Module 5: Implementing Juniper Secure Connect

- Describe Juniper Secure Connect features
- Explain Juniper Secure Connect UI options
- Configure Juniper Secure Connect on SRX Series devices
- Connect Juniper Secure Connect Client

Lab 4: Implementing Juniper Secure Connect

Module 6: Implementing Identity-Aware Security Policies

- Describe identity-aware firewall and list supported identity sources
- Describe Active Directory as identity source
- Configure Active Directory as identity source
- Describe Juniper Identity Management Service

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Course Outline

- Explain how to install Juniper Identity Management Service
- Configure Juniper Identity Management Service
- Describe how to troubleshoot Juniper Identity Management Service

Lab 5: Implementing Identity-Aware Security Policies

Module 7: Introducing Security Director

- Explain the benefits of Security Director
- Explain Security Director deployment options
- Demonstrate how to access and use the Security Director UI
- Demonstrate how to onboard a device
- Demonstrate how to manage security policies
- Demonstrate how to deploy and validate configuration changes

Lab 6: Using Security Director

DAY 3

Module 8: Introducing Policy Enforcer

- Explain the benefits of Policy Enforcer
- Explain how to configure a secure fabric
- Describe how infected host remediation occurs

Module 9: Implementing Juniper ATP Cloud Anti-Malware

- Describe Juniper ATP Cloud anti-malware capabilities
- Describe the Juniper ATP Cloud Web UI options
- Configure the SRX Series Firewall to use Juniper ATP Cloud anti-malware
- Discuss a Juniper ATP Cloud anti-malware case study

Lab 7: Enrolling Devices in Juniper ATP Cloud

Module 10: Implementing Juniper ATP Cloud Features

- Explain Security Intelligence
- Describe Encrypted Traffic Insights
- Describe Adaptive Threat Profiling
- Explain IoT Security

Lab 8: Implementing ATP Cloud Features

DAY 4

Module 11: Understanding Chassis Cluster Concepts

- Describe why customers implement a chassis cluster
- Identify chassis cluster components
- Describe the causes of failover

Module 12: Implementing a Chassis Cluster

- Configure a chassis cluster
- Explain additional chassis cluster configuration options

Lab 9: Implementing a Chassis Cluster

Module 13: Troubleshooting a Chassis Cluster

- Troubleshoot a chassis cluster
- Explain the chassis cluster case studies

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Course Outline

Lab 10: Troubleshooting a Chassis Cluster

SELF-STUDY MODULE

Module 14: Understanding Junos OS Routing Fundamentals

- Explain the difference between directly connected, static, and dynamic routes
- Explain how route preference determines the active route to a destination
- Demonstrate how to display and examine the inet.0 and inet6.0 routing tables
- Configure and validate static routing
- Explain the flow process

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