Introduction to Juniper Security

COURSE OVERVIEW

This three-day, introductory-level course provides students with the knowledge to secure their network using SRX Series Firewalls. Key topics include security zones, security policies, content security, and network address translation (NAT).

Through demonstrations and hands-on labs, students will gain experience with each of these concepts. This course is based on Junos OS Release 24.2R1.17.

COURSE LEVEL

Introduction to Juniper Security is an introductory-level course.

AUDIENCE

- Individuals who are responsible for network security
- Individuals who want to learn how to secure their networks using SRX Series Firewalls

PREREQUISITES

- Basic networking skills
- General understanding of networking architecture

RELATED JUNIPER PRODUCTS

SRX Series Firewalls

RELATED CERTIFICATION

JNCIA-SEC

RECOMMENDED NEXT COURSE

Juniper Security

OBJECTIVES

- Describe Junos OS architecture.
- Describe SRX Series security architecture.
- Create security and functional zones.
- Configure screen options.
- Configure address and application objects.
- Implement traditional security policies.
- Implement unified security policies.
- Configure security policy logging, counting, and scheduling.
- Troubleshoot security policies.
- Enable application tracking.
- Implement antivirus and antispam capabilities.
- Enable content filtering and Web filtering.
- Configure source NAT.
- Configure destination NAT.
- Configure static NAT.

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COURSE CONTENTS

DAY 1

Module 01: Introduction to Juniper Security

- Explain network security challenges.
- Explain SRX Series Firewall physical and virtual device options.
- Explain SRX Series Firewall device management options.

Module 02: Juniper SRX Series Security Architecture

- Explain Junos OS architecture
- Explain SRX Series security architecture
- Explain SRX Series traffic processing

Module 03: Managing Zones

- Explain Junos OS architecture
- Explain SRX Series security architecture
- Explain SRX Series traffic processing

Lab 01: Managing Zones

Module 04: Managing Addresses, Applications, and ALGs

- Create address objects
- Create applications
- Use ALGs

Lab 02: Managing Addresses and Applications

DAY 2

Module 05: Managing Traditional Security Policies

- Explain traditional security policy processing
- Create traditional security policies
- Modify, reorder, deactivate, and delete security policies

Lab 03: Managing Traditional Security Policies

Module 06: Managing Unified Security Policies

- Describe AppID
- Implement unified security policies

Lab 04: Managing Unified Security Policies

Module 07: Configuring Security Policy Options

- Implement security policy logging and counting
- Create schedulers
- Examine session options

Lab 05: Configuring Security Policy Options

Module 08: Troubleshooting Security Policies

- Troubleshoot the flow process
- Enable trace options

Lab 06: Troubleshooting Security Policies

Module 09: Implementing AppTrack

- Explain AppSecure capabilities

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

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- Configure AppTrack

Lab 07: Implementing AppTrack

DAY 3

Module 10: Implementing Antivirus and Antispam

- Describe content security
- Configure antivirus
- Configure antispam

Lab 08: Implementing Antivirus and Antispam

Module 11: Implementing Content Filtering and NextGen Web Filtering

- Configure content filtering
- Configure NextGen web filtering

Lab 09: Implementing Content Filtering and NextGen Web Filtering

Module 12: Implementing Source NAT

- Explain source NAT
- Configure interface-based source NAT
- Configure pool-based source NAT
- Validate source NAT functionality

Lab 10: Implementing Source NAT

Module 13: Implementing Destination NAT and Static NAT

- Explain destination NAT options
- Configure destination NAT
- Configure static NAT

Lab 11: Implementing Destination NAT and Static NAT

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