



Junos Security Skills Camp (JSEC, AJSEC)

Längd: 5 Days Kurskod: JSEC-AJSEC

Sammanfattning:

Build your intermediate and advanced Juniper security skills in this convenient skills-building course. We've combined two authorized Juniper courses, Junos Security (JSEC) and Advanced Junos Security (AJSEC) to create an intensive, extended-hours Skills Camp in which you will build your intermediate and advanced Juniper security skills. You will gain hands-on experience implementing, configuring, and monitoring the Junos OS for SRX Series devices

Målgrupp:

Network engineers, administrators, support personnel, and reseller support personnel using SRX Series devices

Målsättning:

- After successfully completing this course, you should be able to:
- Describe traditional routing and security and the current trends in internetworking.
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- Provide an overview of SRX Series devices and software architecture.
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- Describe the logical packet flow and session creation performed by SRX Series devices.
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- Describe, configure, and monitor zones.
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- Describe, configure, and monitor security policies.
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- Describe, configure, and monitor firewall user authentication.
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- Describe various types of network attacks.
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- Configure and monitor SCREEN options to prevent network attacks.
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- Explain, implement, and monitor NAT on Junos security platforms.
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- Explain the purpose and mechanics of IP Security (IPsec) virtual
- Alter the Junos default behavior of ALG and application processing.
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- Implement address books with dynamic addressing.
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- Compose security policies utilizing ALGs, custom applications, and dynamic addressing for various scenarios.
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- Use Junos debugging tools to analyze traffic flows and identify traffic processing patterns and problems.
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- Describe Junos routing instance types used for virtualization.
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- Implement virtual routing instances.
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- Describe and configure route sharing between routing instances using logical tunnel interfaces.
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- Implement selective packet-based forwarding.
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- Implement filter-based forwarding.
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- Describe and implement static, source, destination, and dual NAT in complex LAN environments.
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private networks (VPNs).

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- Implement and monitor policy-based and route-based IPsec VPNs.
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- Utilize and update the IDP signature database.
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- Configure and monitor IDP policy with policy templates.
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- Describe, configure, and monitor high availability chassis clusters.
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- Describe the various forms of security supported by the Junos OS.
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- Describe Junos security handling at Layer 2 versus Layer 3.
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- Describe the placement and traffic distribution of the various components of SRX devices.
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- Configure, utilize, and monitor the various interface types available to the SRXSeries product line.
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- Describe Junos OS processing of Application Layer Gateways (ALGs).
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- Describe and implement variations of cone, or persistent NAT.
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- Describe the interaction between NAT and security policy.
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- Implement optimized chassis clustering.
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- Describe IP version 6 (IPv6) support for chassis clusters.
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- Differentiate and configure standard point-to-point IP Security (IPsec) virtual private network (VPN) tunnels, hub-and-spoke VPNs, dynamic VPNs, and group VPNs.
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- Implement OSPF over IPsec tunnels and utilize generic routing encapsulation (GRE) to interconnect to legacy firewalls.
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- Monitor the operations of the various IPsec VPN implementations.
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- Describe public key cryptography for certificates.
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- Utilize Junos tools for troubleshooting Junos security implementations.
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- Perform successful troubleshooting of some common Junos security issues.

Förkunskaper:

Students should have basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/IP protocol suite. Students should also either attend the Introduction to the Junos Operating System (IJOS) and Junos Routing Essentials (JRE) courses prior to attending this class, or have equivalent experience with the Junos OS.

Test och certifiering

This course is part of the following programs or tracks:

- Juniper Networks Certified Internet Professional - Security (JNCIP-SEC)

Innehåll:

Introduction to Junos security platforms

- Traditional Routing
- Traditional Security
- Breaking the Tradition
- The Junos OS Architecture
- Zone Configuration
- Monitoring Security Zones
- Lab: Configuring and Monitoring Zones
- Policy Components
- Verifying Policy Operation
- Policy Scheduling and Rematching
- Policy Case Study
- Lab: Security Policies
- Pass-Through Authentication
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- Lab: Configuring Firewall Authentication
- Stages and Types of Attacks
- Using Junos SCREEN
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- Junos ALGs
- Custom Application Definitions
- Advanced Addressing
- Policy Matching
- Lab: Implementing Advanced Security Policy
- Routing Instances
- Filter-Based Forwarding

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Advanced NAT Concepts

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