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Introduction to Juniper Security (IJSEC)

Duration: 3 Days Course Code: JUN IJSEC

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.

Course Level

Introduction to Juniper Security (IJSEC) is an introductory level course.

Relevant Juniper Product

• SRX Series • Juniper Connected Security • Juniper AppSecure • Juniper Sky ATP

Target Audience:

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

Objectives:

- 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

Prerequisites:

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

Testing and Certification

JNCIA-SEC exam topics are based on the content of the recommended instructor-led training courses, as well as the additional resources.

- Exam code: JN0-230
- · Administered by Pearson VUE
- Exam length: 90 minutes
- Exam type: 65 multiple-choice questions

 Scoring and pass/fail status is available immediately
 Junos Software Release: 19.1
 The JNCIA-SEC certification is valid for three years.
 Exams can be purchased and scheduled at https://home.pearsonvue.com/junipernetworks/

Follow-on-Courses:

Juniper Security (JSEC)

Content:

Content.		
DAY 1	• Implement security policy for a given use case	Configure and monitor static NAT
Course Introduction	Lab 3: Creating Security Policies	Lab 7: Implementing NAT
Juniper Connected Security	Security Services—IPS	Site-to-Site IPsec VP
Identify the high-level security challenges in today's network	Explain the purpose of IPS	Describe the high-level overview and configuration options for IPsec VPN
Describe basic network security design	Define the IPS policy components	Implement IPsec VPN for a given use case
Identify the key factors in Juniper Networks security focus	Configure IPS policies	Describe the functionality of proxy-id and traffic selectors
Juniper SRX Overview	Security Services—Integrated User-Based Firewall	Monitor site-to-site IPsec VPN
Describe the Junos architecture and SRX features	Explain the purpose of user-based firewall	Lab 8: Implementing IPsec VPN
Explain the traffic processing and logical packet flow on an SRX Series device	Configure integrated user-based firewall	Juniper Secure Connect
	Lab 4: Security Services—IPS Integrated User Firewall	Describe Juniper Secure Connect features
Describe the Junos J-Web UI and its features		• Exploin Juniper Secure Connect III entions
Juniper SRX Initial Configuration	UTM—Antivirus and Antispam	Explain Juniper Secure Connect UI options
List and perform initial configuration tasks	Describe the purpose of UTM services	Deploy Juniper Secure Connect
Perform basic interface configuration tasks	Explain antispam and its functionality	Monitor Juniper Secure Connect
Lab 1: Initial System Configuration	UTM—Content Filtering and Web Filtering	Lab 9: Implementing Juniper Secure Connect
	Explain the functionality of Content filtering	SRX Troubleshooting
UI Options – The Junos CLI		Discuss SRX and vSRX licensing
Perform Junos CLI basics	Explain the functionality of Web filtering	a Describe how to use peaket conture
Describe Junos operational mode	Lab 5: Implementing UTM Virtual SRX	Describe how to use packet capture
Describe Junos configuration mode	Juniper Connected Security—JATP Cloud	Describe the traceoptions on the SRX Series device
Security Zones and Screen Objects	Explain the purpose of JATP	Discuss how to verify Content Security policy usage
Describe and configure security zones objects	Describe the features of JATP	Monitoring and Reporting

Describe and configure screen objects	Describe the process to enroll devices with JATP cloud	Explain the basic monitoring features
Address Objects and Service Objects	Monitor JATP	Explain the use of network utility tools on the SRX Series device
Describe and configure address objects	Lab 6: JATP Overview	Describe the procedure of maintaining
Describe and configure service objects	DAY 3	Junos OS
Lab 2: Creating Security Objects	Source Network Address Translation	• Identify the various reports available on SRX J-Web interface
DAY 2	Describe the purpose and functionality of NAT and PAT	Lab 10: Monitoring and Reporting
Security Policies	Configure and monitor source NAT	The following appendices can be covered - time permitting - if requested by the delegate/s at the time of booking the course:
Describe the purpose and types of security policies	Explain the purpose of proxy ARP	SRX Series Hardware and Interfaces
Define the security policy components	Destination Network Address Translation and Static Network Address Translation	Virtual SRX
Configure an application firewall with unified security policies	Configure and monitor destination NAT	Juniper Sky Enterprise
		IPsec VPN Concepts

Additional Information:

Delegates will receive an official set of e-kit courseware approximately 1 week prior to the start of the course.

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931 info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

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