



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

Arrow ECS, Nidderdale House, Beckwith Knowle, Harrogate, HG3 1SA

Email: educationteam.ecs.uk@arrow.com

Phone: 0870 251 1000



Introduction to Juniper Security (IJSEC)

CODE:	LENGTH:	PRICE:
JUN_IJSEC	24 Hours (3 days)	£2,195.00

Description

Duration: 3 days

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.

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

Audience

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

Prerequisites

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

Programme

- 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 features
 - 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

Follow on courses

Follow On Courses - Juniper Security (JSEC)

Test and Certification

Exams can be purchased and scheduled at an additional cost – please ask for details.

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
29 May 2024	Virtual Classroom	BST	English	Instructor Led Online		£2,195.00 £1,865.75
08 Jul 2024	Virtual Classroom	BST	English	Instructor Led Online		£2,195.00 £1,975.50
09 Sep 2024	Virtual Classroom	BST	English	Instructor Led Online		£2,195.00
28 Oct 2024	Virtual Classroom	GMT	English	Instructor Led Online		£2,195.00
02 Dec 2024	Virtual Classroom	GMT	English	Instructor Led Online		£2,195.00

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)