



Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

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CODE:	LENGTH:	PRICE:
JUN_IJOS	3 day(s)	€2,350.00

Description

This three-day course provides students with the foundational knowledge required to work with the Junos operating system and to configure Junos devices.

The course provides a brief overview of the Junos device families and discusses the key architectural components of the software. Key topics include user interface options with a heavy focus on the command-line interface (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 devices.

The course then delves into foundational routing knowledge and configuration examples including general routing concepts, routing policy, and firewall filters.

Through demonstrations and hands-on labs, students will gain experience in configuring and monitoring the Junos OS and monitoring basic device operations.

Introduction to the Junos Operating System (IJOS) is an introductory-level course and is based on Junos OS Release 15.1X49. Course will be delivered using latest available course material version offered by Juniper

Objectives

After successfully completing this course, you should be able to:

Describe the basic design architecture of the Junos OS.
 Identify and provide a brief overview of Junos devices.
 Navigate within the Junos CLI.
 Perform tasks within the CLI operational and configuration modes.
 Restore a Junos device to its factory-default state.
 Perform initial configuration tasks.
 Configure and monitor network interfaces.
 Describe user configuration and authentication options.
 Perform secondary configuration tasks for features and services such as system logging (syslog) and tracing, Network Time Protocol (NTP), configuration archival, and SNMP.
 Monitor basic operation for the Junos OS and devices.
 Identify and use network utilities.
 Upgrade the Junos OS.
 Perform file system maintenance and password recovery on a Junos device.
 Navigate within the Junos J-Web interface.
 Explain basic routing operations and concepts.
 View and describe routing and forwarding tables.
 Configure and monitor static routing.
 Configure and monitor OSPF.
 Describe the framework for routing policy and firewall filters.
 Explain the evaluation of routing policy and firewall filters.
 Identify instances where you might use routing policy.
 Write and apply a routing policy.
 Identify instances where you might use firewall filters.
 Write and apply a firewall filter.
 Describe the operation and configuration for unicast reverse path forwarding (RPF).
 Follow recommended procedure to open a JTAC support case.
 Access support resources.
 Use the customer support Website.
 Access and use customer support tools.
 Use FTP to transfer large files to JTAC.
 Identify high-level security challenges in today's networks.
 Explain the value of implementing security solutions.
 Identify key factors in Juniper Networks' security focus.
 Describe some differences between IPv4 and IPv6.
 List IPv6 address types and describe the IPv6 addressing format.
 Enable an interface for IPv6 operation.
 Configure and monitor routing for IPv6 environments.
 Tunnel IPv6 traffic over and IPv4 network.

Audience

This course benefits individuals responsible for configuring and monitoring devices running the Junos OS.

Prerequisites

Students should have basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/IP protocol suite.

Programme

	Chapter 2: Junos Operating System Fundamentals
	The Junos OS
	Traffic Processing
Day 1	Chapter 1: Course Introduction Overview of Junos Devices
	Chapter 3: User Interface Options—The Junos CLI
	User Interface Options
	The Junos CLI: CLI Basics
	The Junos CLI: Operational Mode
	The Junos CLI: Configuration Mode
	Chapter 4: User Interface Options—The J-Web Interface
	Factory-Default Configuration
	Initial Configuration
	Interface Configuration
	Lab 1: User Interface Options Chapter 5: Initial Configuration Lab 2: Initial System Configuration Day 2

			User Configuration and Authentication		
			System Logging and Tracing		
			Network Time Protocol		
			Archiving Configurations		
			SNMP		
Chapter 6: Secondary System Configuration			Lab 3: Secondary System Configuration		
			Monitoring Platform and Interface Operation		
			Network Utilities		
			Maintaining the Junos OS		
			Password Recovery		
			System Clean-Up		
Chapter 7: Operational Monitoring and Maintenance			Lab 4: Operational Monitoring and Maintenance		
			Review of the Interface Configuration Hierarchy		
			Interface Configuration Examples		
Chapter 8: Interface Configuration Examples			Using Configuration Groups		Chapter 9: Routing Fundamentals
Routing Concepts: Overview of Routing					
Routing Concepts: The Routing Table			Chapter 10: Routing Policy		
Routing Concepts: Routing Instances					
Static Routing			Routing Policy Overview		
Dynamic Routing			Case Study: Routing Policy		
Lab 5: Routing Fundamentals	Day 3		Lab 6: Routing Policy		Chapter 11: Firewall Filters
					CoS Overview
					Traffic Classification
Firewall Filters Overview					Traffic Queueing
Case Study: Firewall Filters					Traffic Scheduling
Unicast Reverse-Path-Forwarding Checks					Case Study: CoS
Lab 7: Firewall Filters			Chapter 12: Class of Service		Lab 8: Class of Service
			Opening a Support Case		
			Customer Support Tools		
Chapter 13: JTAC Procedures			Transferring Files to JTAC	Chapter 14: Juniper Security Concepts	Security Challenges
			IPv6 Addressing		Juniper's Security Focus
			Protocols and Services		
Appendix A: IPv6 Fundamentals			Configuration	Appendix B: Junosphere - For Use with IJOS Junosphere Version Only	
Accessing the Junosphere Interface					
Accessing Active Topologies					

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
21 Nov 2022	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€2,350.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.