

# Introduction to the Junos Operating System (IJOS)

## Course Overview

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This is a 1-day class

This one-day CLASSROOM 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.



## Course 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.

## Course Outline

### 1 Course Introduction



[nhls.com](http://nhls.com)



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## 2 Junos Operating System Fundamentals

The Junos OS  
Traffic Processing  
Platforms Running the Junos OS

## 3 User Interface Options

User Interface Options  
The Junos CLI: CLI Basics  
The Junos CLI: Operational Mode  
The Junos CLI: Configuration Mode

## 4 Initial Configuration

Factory-Default Configuration  
Initial Configuration  
Interface Configuration

## 5 Secondary System Configuration

User Configuration and Authentication  
System Logging and Tracing  
Network Time Protocol  
Archiving Configurations  
SNMP

## 6 Operational Monitoring and Maintenance

Monitoring Platform and Interface Operation  
Network Utilities  
Maintaining the Junos OS  
Password Recovery

## 7 Interface Configuration Examples

Review of the Interface Configuration Hierarchy  
Interface Configuration Examples  
Using Configuration Groups

## 8 Appendix B: The J-Web Interface

The J-Web GUI  
Configuration