

HP Education Services

HP NonStop NS-series Server Administration II (U8638S)



This course prepares you to administer and manage the HP NonStop NS-series server. Topics include how to start, monitor, and shut down your system and its subsystems and how to identify and resolve common problems. Learn how to make alterations to the server configuration and to fall back from changes made to a previous configuration. Where resolution is unsuccessful, you will be able to escalate to the appropriate service provider with suitable supporting information. The five-day course is 70 percent lecture and 30 percent hands-on labs using HP servers.

Audience

- System operators
- System administrators
- System analysts
- Technical support analysts
- Personnel involved with day-to-day management of HP Integrity NonStop NS-series servers

Prerequisites

- HP NonStop NS-series Server Administration I (U8528S) or
- Concepts and Facilities for HP NonStop Systems (U4147S) and
- At least six months experience on Integrity NonStop S-series servers

Course Objective

At the conclusion of this course you should be able to:

- Understand the NonStop NS-series server hardware and software architecture
- Start up, monitor, and shut down your NS-series server and its subsystems
- Change system configuration and recover from a previous setup
- Manage your Integrity NonStop NS-series server
- Identify and resolve common problems
- Report and escalate problems that cannot be resolved without outside assistance
- Gather supportive information when reporting or escalating a problem

Benefits to You

- Learn how to manage your Integrity NonStop NS-series server so users experience smooth functioning IT operations

Why education services from HP?

- Focus on job-specific skills
- Hands-on practice
- Experienced and best-in-the-field HP instructors
- Comprehensive student materials
- More than 80 training locations worldwide
- Customized on-site delivery

Course Title: HP NonStop NS-series Server Administration II

HP Product Number: U8638S

Category/Subcategory: NonStop / System Operations

Course Length: 5 days

Level: Intermediate

Delivery Language: English

To Order: To review course schedules and to register for a course, visit www.hp.com/learn/nonstop and select your country from the drop down menu, or, contact your HP sales representative or HP authorized channel partner.

Next Steps: Consider attending the other advanced learning courses in the HP NonStop Operations Management curriculum

Detailed Course Outline

Module 1 - Course Overview

Module 2 - Server Management Functions

- Basic production management activities
- Service-level agreements
- System startup and shutdown
- Processor dump and reload
- Daily, weekly, and monthly tasks
- Recovery tasks
- Production management tools

Module 3 - NonStop Operating System Configuration

- DSM/SCM overview
- Server software revision
- Context file
- Firmware update procedures
- Independent products
- Lab: NonStop operating system overview

Module 4 - Monitoring the System and Processes

- Monitoring system software
- Event Management Service (EMS) subsystem
- Event message format
- EMS distributors and filters
- ViewPoint product
- Process concepts and terminology
- Process states and run options
- Diagnostic and problem resolution procedures
- Lab: monitoring system software

Module 5 - Monitoring NonStop Subsystems

- Batch workloads and control
- Transaction processing environments
- Spooler and Pathway subsystems
- Open System Services (OSS) environment and OSS applications
- Web access
- Lab: subsystem monitoring

Module 6 - Subsystem Control Facility (SCF) Configuration Overview

- SCF configuration and function
- Subsystem Control Point (SCP)
- SCF configuration file contents
- Subsystem manager configuration
- Lab: SCF and hardware monitoring

Module 7 - Storage Configuration

- Disk management, terminology, and path naming
- SCF interface to the storage subsystem
- Fibre channel disks and tapes
- Common disk problems and recovery
- Tape drive storage

Module 8 - SLSA Configuration

- ServerNet LAN Systems Access (SLSA) subsystem and components
- SCF SLSA object hierarchy
- HP NonStop TCP/IP configuration
- NonStop TCP/IPv6
- SCF SLSA object monitoring
- Lab: SLSA configuration

Module 9 - Communications Configuration

- Communication connectivity and configuration
- AWAN product and configuration
- SWAN product and configuration
- SCF and the WAN subsystem configuration
- Expand product and configuration
- Introduction to NonStop clusters
- Network management and monitoring

- Lab: expand configuration (optional)

Module 10 - Performance Monitoring and Database Management

- Measure subsystem and other performance monitoring tools
- Measure counters that monitor performance
- Database and file management
- Lab: enscribe file management (optional)

Module 11 - NonStop TMF Update and Monitoring

- TMF architecture and strategy
- TMF configuration and management
- TMF problem resolution
- Remote Database Facility (RDF)

Module 12 - System Recovery Scenarios

- Critical failure scenarios
- Backup and prevention measures
- Recovery scenarios

Onsite Delivery Equipment Requirements

- Physical access to one NonStop NS-series server for discovery labs
- Connectivity to one NonStop NS-series server with super.group TACL logons, a working Service Connection, and working Low Level Link connectivity with logon information
- One PC workstation per student with OutsideView, the latest NS-series OSM software including the latest Low Level Link version installed
- One Instructor PC workstation with PowerPoint and OutsideView, the latest NS-series OSM software including the latest Low Level Link version installed
- PC projector and suitable screen
- Internet access for classroom

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