



HP Education Services

HP Integrity NonStop NS2300/NS2400 Server Administration II (HH674S)

This course prepares you to administer and manage the HP NonStop NS2300/NS2400 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. This 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 NS2300/NS2400 systems

Prerequisites

- Concepts and Facilities for NonStop Systems (U4147S) or
- HP Integrity NonStop NS2300/NS2400 Server Administration I (HH673S) or
- At least 6 months operational experience on NonStop servers

Course objectives

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

- Understand the NonStop NS2300/NS2400 server hardware and software architecture
- Start up, monitor, and shut down your NS2300/NS2400 server and its subsystems
- Change system configuration and recover from a previous setup
- Manage your Integrity NonStop NS2300/NS2400 server
- Identify and resolve common problems

Course title:	HP Integrity NonStop NS2300/NS2400 Server Administration II
HP product number:	HH674S
Category/Subcategory:	NonStop / System Operations and Management
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.

- Gather supportive information when reporting or escalating a problem

Benefits to you

- Learn how to manage your Integrity NonStop NS2300/NS2400 server so users experience smooth functioning IT operations

Why education services from HP?

- Recognized as an IDC MarketScape leader for IT education (IDC MarketScape: Worldwide IT Education and Training 2012 Vendor Analysis, doc #232870, February 2012)
- Top 20 training provider and content development – www.TrainingIndustry.com
- Unmatched technical expertise and support for HP products and technologies
- More than 30 years of Education Consulting
- Global training with more than 90 training locations worldwide
- Award winning virtual classrooms and virtual labs for a real hands-on experience

Next steps

- Consider attending any of the advanced 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
- Conftext file
- Firmware update procedures
- Independent products and their installation
- 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
- Cluster I/O Module (CLIM) SCF commands
- Lab: SCF and hardware monitoring

Module 7 – Network Configurations

- ServerNet LAN Systems Access (SLSA) subsystem
- Cluster I/O Module (CLIM) architecture
- Cluster I/O Protocols (CIP) subsystem
- SCF object hierarchy
- HP NonStop TCP/IP configuration
- HP NonStop TCP/IPv6

Module 8 – 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
- Lab: SLSA configuration

Module 9 – IP CLIM Configuration

- Checking CIP and CLIM status
- Adding and starting a new interface
- Starting Listner and Telserv
- Modifying, stopping, and deleting an interface
- Displaying connections

Module 10 – 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

Module 11 – Performance Monitoring and Database Management

- Measure subsystem and other performance monitoring tools
- Measure counters that monitor performance
- Database and file management

Module 12 – NonStop TMF Update and Monitoring

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

Module 13 – System Recovery Scenarios

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

Onsite Delivery Equipment Requirements

- Physical access to one NonStop NS2300/NS2400 server for discovery labs
- Connectivity to one NonStop NS2300/NS2400 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 NS2300/NS2400 OSM software including the latest Low Level Link version installed
- One Instructor PC workstation with PowerPoint and OutsideView, the latest NS2300/NS2400 server OSM software including the latest Low Level Link version installed
- PC projector and suitable screen
- Internet access for classroom

For more information

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.

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