

HP Education Services

NonStop S-Series Server Administration Training (U5449S)



This 5-day course provides system managers with the skills and knowledge to manage NonStop S-series servers. After completing this course, you will understand the hardware and software architecture of the NonStop S-series server. You will be able to start, monitor, and shut down your system and its subsystems. You will be able to make alterations to the server configuration and to fallback from the changes to a previous configuration. You will be able to identify and resolve common problems.

Audience

- Personnel involved with the management of a NonStop S-series server.

Prerequisites

- NonStop S-Series Accelerated Operator Training (U5448S) or Concepts and Facilities (U4147S).

Course Objective

- To provide system managers with the skills and knowledge to manage NonStop S-series servers. To also provide system managers the skills required to start, monitor, and shut down a NonStop S-series server, and make changes to the system configuration.

Benefits to You

- Functions of Server Management
- NonStop S-Series Hardware Architecture
- HP NonStop Kernel Configuration
- Monitoring the System and Processes
- Monitoring NonStop Subsystems
- SCF Configuration Overview
- Storage Configuration
- SLSA Configuration
- Communications Configuration
- Performance Monitoring and Database Management
- NonStop TMF Update and Monitoring
- System Recovery Scenarios

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Course Title: NonStop S-Series Server Administration Training

HP Product Number: U5449S

Category/Subcategory: NonStop/System and Operations Management

Course Length: Five Days

Level: Advanced

Delivery Language: English

To Order: You can order this course online at <http://www.hp.com/learn>. At the site, select a country, then choose "registration" or "Book a course" and fill out the online registration form.

Detailed Course Outline

Functions of Server Management

- List and describe basic production management activities.
- List the issues that service-level agreements typically address.
- Describe system startup and shutdown, processor dump and reload, daily, weekly, and monthly tasks.
- List and describe tools used for production management in an HP NonStop S-series environment.

NonStop S-Series Hardware Architecture

- Review HP NonStop S-series hardware architecture
- Discuss the TSM client

HP NonStop Operating System Configuration

- Discuss the DSM/SCM overview
- Explain the server software revision
- Review the Context file
- Explain firmware update procedures
- Describe independent products and their installation.
- Lab exercise: Hp NonStop operating system overview

Monitoring the System and Processes

- Describe how to monitor system software
- Describe the Event Management Service (EMS) subsystem.
- Describe the TSM EMS event viewer
- Describe process creation
- Describe process concepts and terminology
- Describe process states and run options
- Describe diagnostic and problem resolution procedures.
- Lab exercise: HP TSM & Monitoring system software

Monitoring NonStop Subsystems

- Define batch workloads and control
- Identify transaction processing environments
- Describe how to monitor Spooler and Pathway subsystems
- Describe the Open System Services (OSS) environment and OSS applications.
- Explain Web access with HP NonStop Servers

- Lab exercise: Subsystem monitoring

SCF Configuration Overview

- Review SCF configuration
- Describe the server elements that SCF configures
- Describe the contents of the supplied SCF configuration file
- Describe the major parameters in the configuration commands
- Lab exercise: SCF and hardware monitoring

Storage Configuration

- Describe disk management, terminology, and path naming
- Describe the SCF interface to the storage subsystem
- Describe how to configure internal disks and tapes
- Describe how to configure using ServerNet DA
- Describe common disk problems and recovery.
- Describe tape drive storage

SLSA Configuration

- Describe SLSA and list the SLSA components
- Describe SCF SLSA object hierarchy
- Describe HP NonStop TCP/IP configuration
- Describe Parallel NonStop TCP/IP
- Describe SCF SLSA object monitoring
- Lab exercise: SLSA configuration

Communications Configuration

- Describe communication connectivity and configuration
- Describe the AWAN product and configuration
- Describe the SWAN product and configuration
- Use the SCF and the WAN subsystem configuration
- Describe the Expand product and configuration
- Describe ServerNet FX configuration
- Introduce NonStop clusters
- Describe network management and monitoring
- Lab exercise: Expand configuration

Performance Monitoring and Database Management

- Describe the capabilities of the Measure subsystem and other performance monitoring tools
- List and describe the Measure counters that are used to monitor performance

- Discuss database and file management
- Lab exercise: Enscribe file management

NonStop TMF Update and Monitoring

- Review changes from TMF to HP NonStop Transaction Management (TMF)
- Describe TMF architecture and strategy
- Describe TMF configuration and management
- Describe TMF problem resolution
- Describe the Remote Database Facility (RDF)

System Recovery Scenarios

- Review possible critical failure scenarios
- Discuss possible backup and prevention measures
- Discuss possible recovery scenarios

Onsite-Delivery Equipment Requirements

- The minimum desktop hardware and software requirements:
- PC with a Pentium III or higher processor and 256 MB RAM
- Microsoft Windows 2000 or higher
- TCP/IP (for access to HP NonStop server host)
- Terminal emulator, such as OutsideView

NonStop Server Host requirements

- G06.+ NonStop Operating System
- OSS Installed and Activated
- Permission to execute SCF
- HP NonStop TMF
- HP NetBatch
- HP NonStop S-series system with system console, minimal disk drive complement, and minimal Ethernet adapter configuration such as an E4SA.

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