

HP Education Services

DSM/SCM Operations and Management for HP NonStop Systems (U4150S)



This course introduces the foundation and basic skills necessary for system operators and system managers to install, configure, and manage new and changed operating and product software on HP NonStop S-series and Integrity NS-series servers. This four-day course is 50 percent lecture and 50 percent hands-on labs using HP servers.

Audience

- System operators
- System managers
- Personnel responsible for the installation of operating and product software on HP NonStop S-series and Integrity NS-series servers

Prerequisites

- NonStop S-series Server Administration I (U5448S) and NonStop S-series Server Administration II (U5449S) or
- NonStop NS-series Server Administration I (U8528S) and NonStop NS-series Server Administration II (U8638S) or
- Equivalent system management experience and
- Experience with general software installation procedures
- Experience with Pathway, HP NonStop TMF, and HP NonStop SQL are beneficial

Course Objective

- Install and configure DSM/SCM on both host and target systems, and install and configure the Planner Interface on a PC workstation
- Use the Planner Interface to perform all activities related to managing software configuration on multiple target systems
- Use the Target Interface to perform DSM/SCM activities on a target system
- Use the archive and database Maintenance Interfaces to manage and maintain both the archive and databases associated with a host and target environment
- Use the CNFGINFO tool to build or modify file and product attributes for software managed by DSM/SCM
- Learn and perform activities required to activate new software on the target system
- Learn and perform the proper steps required to back out to the previous revision
- Use the ZPHIUTL diagnostic utility

Benefits to You

- Become familiar with DSM/SCM architecture, interfaces, and procedures
- Gain skills needed to optimize HP NonStop systems so users experience smooth functioning IT operations
- Gain valuable hands-on experience executing the software updating process on the emulator

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: DSM/SCM Operations and Management for HP NonStop Systems

HP Product Number: U4150S

Category/Subcategory: NonStop/Systems and Operations Management

Course Length: 4 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 optional and advanced learning courses in the HP NonStop Operations Management curriculum

Detailed Course Outline

Module 1 - Introduction to DSM/SCM

- What is Distributed Systems Management/Software Configuration Manager (DSM/SCM)
- DSM/SCM primary purpose
- Primary DSM/SCM resources
- DSM/SCM user interfaces

Module 2 - DSM/SCM Process Flow

- Step 1 – receive software
- Step 2 – plan the new software revision
- Step 3 – build
- Step 4 – apply the new software revision
- Step 5 – create/review discrepancy report
- Step 6 – activate the new software revision

Module 3 - The Planner Interface (PI)

- Planner Interface (PI) purpose and activities
- Lab exercise: Planner Interface simulator

Module 4 - The CNFGINFO Tool

- CNFGINFO tool overview and purpose
- Activities performed by the CNFGINFO tool
- Lab exercises: PC setup and the CNFGINFO tool

Module 5 - The Archive and Database Maintenance Interfaces (MI)

- Maintenance Interface (MI) purpose and activities

Module 6 - The Target Interface (TI)

- Target Interface (TI) purpose and activities

Module 7 - Activating Updated Target Software

- How to activate the new software
- Using and running ZPHIRNM
- DSM/SCM fabricated names
- Standard operator instructions
- How to update EMS templates

Module 8 - Installing and Initializing DSM/SCM

- Define DSM/SCM environment
- Initial installation and setup of DSM/SCM host and target systems
- Running INITENV using different options
- Starting and stopping DSM/SCM
- Lab exercises: INITENV and Maintenance Interface (MI); ZPHITMI; initialization build/apply

Module 9 - DSM/SCM Management Considerations

- Changing preconfigured DSM/SCM attributes
- Changing NonStop server name and number
- OSBUILDER considerations
- NonStop S-series and NS-series systems DSM/SCM differences
- Web interfaces on NS-series servers
- Lab exercises: system report and independent snapshot; true build/apply; ZPHIRNM; backout

Module 10 - Helpful Tools and Cloning

- Using the ZPHIUTL utility
- Displaying DSM/SCM EMS messages with ZPHIUTL and EMSDIST
- Using CLEANOSS and SPRCHECK tools
- Simplifying installation and management of multiple identical NonStop servers

Module 11 - DSM/SCM Best Practices and Operational Considerations

- From “What not to forget” to best practices on how to clean up the DSM/SCM archive

Onsite Delivery Equipment Requirements

- HP NonStop server with DSM/SCM host system with Pathway, TMF, and SQL installed and DSM/SCM host system software capable of supporting target system
- Planner Interface and CNFGINFO PC installed and connected to the host via Winsock
- HP NonStop S-series or Integrity NS-series target system that is expand-connected to the host system and can be initialized in lab environment
- Projecting equipment, computer to display MS PowerPoint slides, and access to a TAACL process
- Student computers with access to a TAACL process

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