



DSM/SCM Operations and Management for HPE NonStop Systems U4150S

HPE course number	U4150S
Course length	4 days
Delivery mode	ILT
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This course provides the student with the foundation and basic skills necessary to install and configure both host and target DSM/SCM systems. Additionally, they will learn the basic skills necessary to use the five DSM/SCM block mode interfaces, and two GUI interfaces. This four-day course is 50 percent lecture and 50 percent hands-on labs using the DSM/SCM environment.

Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services*
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Audience

- HPE NonStop System Managers
- Technical Support
- Senior Operation Personnel

Prerequisites

- HPE NonStop S-series Server Administration I (U5448S) and NonStop S-series Server Administration II (U5449S) or
- HPE NonStop NS-series Server Administration I (U8528S) and HPE NonStop NS-series Server Administration II (U8638S) or
- Equivalent system management experience and
- Experience with general software installation procedures
- Although not absolutely necessary, experience with Pathway, HPE NonStop TMF, HPE NonStop SQL/MP, and RSC and/or Winsock products would be beneficial
- Know how to use HPE NonStop Essentials with HPE Systems Insight Manager

Course objectives

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

*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Benefits to you

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

Detailed course outline

Module 1: Introduction to DSM/SCM	- Module 1 provides an overview of the DSM/SCM product. Upon completion of this module, students will be able to: - Describe the primary purpose of DSM/SCM - State the names and functions of the five user interfaces	- State the names and functions of the two GUI interfaces - Describe the primary resources in a DSM/SCM environment
Module 2: DSM/SCM Process Flow	Module 2 discusses a typical DSM/SCM process flow of receiving software inputs into an archive, planning, building, and applying a new software revision on a target system, creating and inputting a snapshot of the target database into the host database, and activating the new software revision. Upon completion of this module, students will be able to:	- Describe the DSM/SCM process flow - List the resources needed to perform the activities involved in a typical DSM/SCM process flow
Module 3: The NonStop Software Essentials Interface (NSE)	- Module 3 discusses and describes how the NonStop Software Essential can manage software on distributed target systems from the Interface on a central host system. Upon completion of this module and its lab exercise, students will be able to: - Define the NonStop Software Essentials - Describe the activities of: - Entering NSE - Receiving software inputs into the archive - Viewing documents - Managing software revision	- Building and applying a new software revision - Receiving a snapshot - Creating and reviewing a discrepancy report - Adding and maintaining target systems - Viewing and creating reports - Organizing software into groups - Making DSM/SCM requests - Monitoring requests - Enabling a DSM/SCM trace
Module 4: The CNFGINFO Tool	- Module 4 describes how CNFGINFO is used to build or modify file and product attributes for software managed by DSM/SCM. Upon completion of this module and its lab exercise, students will be able to: - Define the CNFGINFO tool - Explain the activities of: - Entering the CNFGINFO tool	- Specifying product information - Specifying product dependencies - Specifying file information - Specifying file function and destination - Specifying file attributes - A0CINFO, A1CINFO, and A7CINFO files
Module 5: The Archive and Database Maintenance Interfaces (MI)	- Module 5 describes how to perform activities associated with maintaining and managing the DSM/SCM archive and databases using the Archive and Database Maintenance Interface (MI). Upon completion of this module and its lab exercise, students will be able to: - Define the maintenance interface - Explain the activities of: - Entering the host or target MI - Managing and maintaining systems and volumes - Managing user security	- Managing the configuration manager profile - Performing checkout cancellation - Deleting DSM/SCM requests - Moving host and target databases - Moving and maintaining the DSM/SCM archive - Registering (adding) a new target system - Enabling a DSM/SCM trace
Module 6: The Target Interface (TI)	- Module 6 discusses and describes how to perform target activities using the Target Interface. Upon completion of this module and its lab exercise, students will be able to: - Define the Target Interface - Explain the activities of: - Entering/exiting the TI - Applying software to the target	- Backing out a software revision - Auditing a target system - Verifying the target database - Creating an independent snapshot - Creating a system report - Enabling a DSM/SCM trace

Module 7: Activating New Software on the Target System	- Module 7 discusses and describes the activities you must perform on the target system to activate new software. Upon completion of this module and its lab exercise, students will be able to: - Define activation of the new software	- Explain the activities of using/running the ZPHIRNM program - Explain how and why DSM/SCM uses fabricated name, as well as all standard operator instructions
Module 8: Installing DSM/SCM	- Module 8 discusses and describes the procedures for the initial installation and setup of DSM/SCM and its supporting products on the host and target systems and on your PC. Upon completion of this module and its lab exercise, students will be able to: - Explain the DSM/SCM installation activities: - Preparing for installation - Defining your DSM/SCM environment	- Installing DSM/SCM using Install - Running INITENV - Initializing the DSM/SCM databases using the MIs - Setting up the PC environment (PI) - Using the PI to define initial configurations - Starting and stopping DSM/SCM
Module 9: DSM/SCM Management Considerations	- Module 9 presents DSM/SCM management issues and considerations as they relate to the installation and use of DSM/SCM on an S-Series server, and refers the student to the appropriate procedures when necessary. It is intended as a high-level discussion of the issues mentioned below. Upon completion of this module, students will be able to: - Define DSM/SCM management issues of HPE NonStop servers - Define DSM/SCM series NonStop server configuration change management issues - Changing pre-configured DSM/SCM attributes	- Changing the NonStop S-series server system name and/or number - Changing the NonStop S-series server system name in the DSM/SCM client - Reinitializing the host as a target - Adding disks - Moving the archive - Understanding Sysgen considerations - SIT tapes - OSS considerations
Module 10: Helpful Tools and Cloning	- Module 10 describes the use of ZPHIUTL as a diagnostic and information gathering tool. Upon completion of this module, students will be able to: - Describe the use of the ZPHIUTL utility - Describe procedures for validating correct SYSnn - Describe procedures for displaying contents of ZPHIRNM work files	- Describe procedures for displaying contents of the AOCINFO file - Describe the use of the CLEANOSS tool - Describe the use of the SPRCHECK tool - Describe the use how to simplify Installation and Management of multiple identical NonStop Servers
Module 11: DSM/SCM Best Practices and Operational Considerations	- Module 11 discusses and describes some best practices and operational considerations learned from early internal and external customers of the DSM/SCM product. Upon completion of this module, students will be able to: - Explain the DSM/SCM best practices/operational considerations of: - What not to forget - Volume name considerations - Multiple logical target considerations - Disk space considerations - Disk cleanup considerations	- Database move considerations - Backout considerations - SYSnn considerations - Installing IPMs outside DSM/SCM - Forced SYSGENS - Network security considerations - Running IPM6031 - Archive Cleanup
Onsite Delivery Equipment Requirements	- HPE 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 - HPE 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 TACL process - Student computers with access to a TACL process

Next steps

- Consider attending the other optional and advanced learning courses in the HPE NonStop Operations Management curriculum

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