



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?

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

Audience

- NonStop System Managers
- Technical Support
- Senior Operation Personnel

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
- 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 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

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	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Projecting equipment, computer to display MS PowerPoint slides, and access to a TAACL process Student computers with access to a TAACL process

Course data sheet

Next steps

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

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