

HPE Integrity NonStop X Architecture and Operational Management differences H1SD5S

HPE course number	H1SD5S
Course length	3 days
Delivery mode	ILT, VILT
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This course provides you the knowledge to understand the architecture of HPE Integrity NonStop™ X BladeSystems and prepares you to operate and manage them. Server architecture, configuration and operations are compared and contrasted between NonStop™ X and NonStop™ i (NB-Series) servers. The course is a combination of lecture, live demonstrations and exercises using HPE Integrity NonStop™ X BladeSystems.

Why HPE Education Services?

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Audience

- System operators
- System administrators
- System analysts
- Support personal

Prerequisites

- Detailed knowledge about the architecture, operations and management of HPE Integrity NonStop™ i BladeSystems (NB-Series).
- Completion of the HPE NonStop™ NB-Series Administration I (HG776S) and II (HG777S)

Course objectives

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

- Understand the architecture of the HPE Integrity NonStop™ X BladeSystem, which includes the NS3 and NS7 models
- Understand intelligent rack and power
- Understand the NonStop Maintenance LAN and the role of the NonStop System Console
- List the differences in various areas between the NonStop™ X and NonStop™ i
- List the differences of the IP, Storage and Open CLIMs between NonStop™ X and NonStop™ i
- Knowing the modified SCF Cluster I/O Protocol (CIP) commands
- Knowing the new CLIM commands
- Become familiar with the updates to Open System Management (OSM) Service Connection
- Become familiar with using the OSM Quick Start Tool, System Startup Tool (SST), System Configuration Tool (SCT), HSS/HCA Firmware Management Wizard and the CLIM Receive Dump action
- Understand Infiniband Clustering
- Understand the NonStop Application Direct Interface (NSADI) technology
- List the differences in the Measure Subsystem
- Understand the basic migration and related considerations

Detailed course outline

Module 1: Course Introduction	<ul style="list-style-type: none"> • Introductions and course logistics • Course objectives 	<ul style="list-style-type: none"> • HPE NonStop™ x86 evolution
Module 2: HPE Integrity NonStop X BladeSystem architecture	<ul style="list-style-type: none"> • NonStop X NS3/NS7 X1 and X2 hardware architecture • Processor BL460c BladeServer implementation • Logical and physical Infiniband System Area Network (SAN) interconnect • Internal and external Infiniband switches 	<ul style="list-style-type: none"> • Maintenance LAN changes • NonStop System Console • Intelligent rack and power • Core License • NonStop i and NonStop X BladeSystem compared
Module 3: NonStop X Operating System and Infiniband overview	<ul style="list-style-type: none"> • NonStop X Operating System and Infiniband overview • Remote DMA (RDMA) Services • OFED (OpenFabrics Enterprise Services) 	<ul style="list-style-type: none"> • NonStop Connection Services Library (NCSL) • Maintenance Entity Unit (MEU) • Halted State Services (HSS)
Module 4: NonStop X CLIM Changes	<ul style="list-style-type: none"> • IP CLIM overview and changes • Entry Class IP CLIM overview • Storage CLIM overview and changes • Storage options and changes 	<ul style="list-style-type: none"> • Open CLIM overview and changes • Modified SCF Cluster I/O Protocol (CIP) Subsystem (\$ZZCIP) commands • New CLIM commands • CLIM Multi Tenancy featureS
Module 5: NonStop X Tools	<ul style="list-style-type: none"> • OSM Service Connection Changes • OSM Quick Start Tool • OSM System Startup Tool • OSM System Configuration Tool 	<ul style="list-style-type: none"> • CLIM Management Tool • HSS/HCA Firmware Management Wizard • Dump to ME Unit feature • SUT and Non-SUT Firmware
Module 6: NonStop X Operating System Changes	<ul style="list-style-type: none"> • TNS application support • Changes to the Measure Subsystem 	<ul style="list-style-type: none"> • Changes to PEEK • Introduction to the NonStop Application Direct Interface (NSDA)
Module 7: Infiniband Clustering	<ul style="list-style-type: none"> • Direct Infiniband Clustering 	<ul style="list-style-type: none"> • Infiniband Clustering with Infiniband cluster switches
Module 8: Migration Considerations	<ul style="list-style-type: none"> • Data migration 	<ul style="list-style-type: none"> • FUP compatibility and migration

Learn more at
hpe.com/ww/learnNonStop

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