Hewlett Packard Enterprise

HPE Integrity NonStop X Server Administration II H6C40S

HPE course number	H6C40S
Course length	5 days
Delivery mode	ILT, VILT
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This course prepares you to administer and manage your HPE Integrity NonStop X BladeSystem. Topics include how to start, monitor, and shut down your system and its subsystems and how to identify and resolve common problems. Learn how to make alterations to the server configuration and to fall back from changes made to a previous configuration. Also learn how to escalate to the appropriate service provider with suitable supporting data. The course is 60 percent lecture and 40 percent hands-on labs using HPE Integrity NonStop X servers.

Why HPE Education Services?

- IDC MarketScape leader 7 years running for IT education and training*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services*
- Key partnerships with industry leaders OpenStack®, VMware®, Linux®, Microsoft®, ITIL, PMI, CSA, and SUSE
- Complete continuum of training delivery options—self-paced eLearning, custom education consulting, traditional classroom, video on-demand instruction, live virtual instructor-led with hands-on lab, dedicated onsite training
- Simplified purchase option with HPE Training Credits

*Realize Technology Value with Training, IDCInfographic 2037, Sponsored by Hewlett PackardEnterprise, 2019

Audience

- System operators, administrators, and analysts
- Technical support analysts and personnel involved with day-to-day management of HPE Integrity NonStop X BladeSystems

Prerequisites

- HPE Integrity NonStop X Server Administration I (H6C39S) or
- At least six months experience on Integrity NonStop X servers

Course objectives

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

- Start up, monitor, and shut down your HPE Integrity NonStop X BladeSystem server and its subsystems
- Change system configuration and recover from a previous setup
- Manage your HPE Integrity NonStop X server
- Identify and resolve common problems
- Gather supportive data when reporting or escalating a problem

Benefits to you

- Learn how to manage your HPE Integrity NonStop X BladeSystem so users experience smooth functioning IT operations

Detailed course outline

Module 1: Course Overview	
Module 2: Server Management Functions	• Server management and environment characteristics • System management on HPE Integrity NonStop X systems • Daily, weekly, monthly, and recovery tasks • Production management tools
Module 3: NonStop Operating System Configuration	• DSM/SCM overview and server software revision • Conftext file and firmware update procedures • HSS and HCA firmware management • Independent products and their installation
Module 4: Monitoring the System and Processes	• Monitoring system software • EMS subsystem, distributors, and filters • Event message format and ViewPoint product • Process concepts, terminology, states, and run options • Diagnostic and problem resolution procedures • Automatic and manual CPU dump procedures
Module 5: Monitoring NonStop Subsystems	• Batch workloads, control, and transaction processing environments • Spooler and Pathway subsystems and user and file SafeGuard security • OSS environment, OSS applications, and web access
Module 6: Subsystem Control Facility (SCF) Configuration	• SCF configuration, function, and file contents • SCP and subsystem manager configuration • Cluster I/O Module (CLIM) SCF commands • CLIM backup and restore procedures
Module 7: Network Configurations	• Monitoring TCP/IP • CLIM architecture and IP CLIM models • Cluster I/O Protocol (CIP) subsystem and SCF object hierarchy
Module 8: Storage Configuration	• Storage CLIM architecture, features, configurations, and LunManager • CLIMCommand (CLIMCMD) usage • SCF interface and SAS disk drives and tape drives • Disk management, terminology, and path naming • Disk path balancing and adding disk volumes in SCF • Disk cache and disk drive partitioning • Common disk problems, recovery, and tape drive storage
Module 9: IP CLIM Configuration	• CIP configuration and subsystem object hierarchy • IP CLIM network commands and failover configuration options • Multi-Provider CLIM (MPC)
Module 10: Expand and InfiniBand Clustering	• SCF and the WAN subsystem configuration • Expand product and configuration • Introduction to NonStop InfiniBand clusters and monitoring • Network management and monitoring
Module 11: Performance Monitoring and Database Management	• Measure subsystem and other performance monitoring tools • Measure counters that monitor performance • Database and file management

Module 12: NonStop TMF Update and Monitoring	• TMF architecture, strategy, configuration, and management • TMF problem resolution and Remote Database Facility (RDF)
Module 13: System Recovery Scenarios	• Critical failure and recovery scenarios • Backup and prevention measures
Onsite Delivery Equipment Requirements	• Physical access to one HPE Integrity NonStop X BladeSystem NS3 X1 or NS7 X1 server for discovery labs • Connectivity to one HPE Integrity NonStop X BladeSystem with super.group TACL logons, a working Service Connection, and working Low Level Link connectivity with logon information • One PC Workstation per student with OutsideView, the latest L-series OSM software including the latest OSM console tools installed • One Instructor PC workstation with PowerPoint and OutsideView, the latest L-series OSM software including the latest OSM console tools installed • PC projector and suitable screen • Internet access for classroom

Learn more at
hpe.com/ww/learnnonstop

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