



HP NonStop VTS Architecture and Troubleshooting HK291S

Course Overview

This course prepares you to install, use and troubleshoot a Virtual Tape Server (VTS). Topics include the subsystem architecture, installation and cabling of the VTS system, differentiation of key processes, server approaching, software administration, cartridge creation, export and import, and basic troubleshooting. This 3-day course is 70 percent lecture and 30 percent hands-on labs using a VTS system and HP servers.

Price	USD \$1,800
Links to local schedules, pricing and registration	US/Canada Mexico/Latin America Brazil
Course title	HP NonStop VTS Architecture and Troubleshooting
HP course #	HK291S
Category	NonStop
Duration	3 days

Audience

- System Engineers
- System Analysts
- System Administrators

Prerequisites

- Any HP NonStop server field support training course and
- Familiarity with NSK tape handling and
- Familiarity with Linux and
- Familiarity with HP ProLiant DL38* and MSA storage

Course objectives

At the conclusion of this course the student will have a basic knowledge of:

- Know what a VTS is and what it can do
- Install and cable a VTS system
- Know which VTS processes are important and how to approach the servers
- Operate the VTS as virtual tape unit
- Know how to use the VTS software
- Make backup VAULTS / POOLS / Virtual CARTRIDGES
- Export and import cartridges
- Perform basic VTS troubleshooting

Benefits to you

- Learn how to integrate and troubleshoot a VTS subsystem with your NonStop system in order to improve operation efficiency

Course outline

Module 2 - Introduction to the VTS

- Overview of VTS product
- Typical VTS NonStop environment
- VTS design goals and terminology
- CE VTS learning path
- ISS/SWD learning modules -> grow@hp
- Linux learning modules -> grow@hp
- VTS transfer of information -> NonStop University Media Library

Module 3 - VTS Hardware

- VTS server
- SCSI connection connectivity
- HVD/LVD convertor
- Fiber channel connectivity
- Storage CLIM and storage connectivity
- Physical tape drive connectivity
- VTS models including capacity and connection bus numbering

Module 4 - VTS Storage

- VTS storage options
- VTS storage configuration operations

Module 5 - VTS Software

- Linux environment
- VTS middleware
- VTS third products
- Software releases

Module 6 - Basic Operations of a VTS

- Functions of the VTS GUI menu
- Backup and restore operation
- Import and export operation

Module 7 - Configuration a VTS

- First install configuration
- VTS configuration
- VTS configuration files
- EMS configuration and automount
- Log files of a VTS

Module 8 - VTS Internal/External Storage Configuration

- Internal storage
 - Internal RAID configuration
 - Finding and configuring devices

- Creating and securing VAULTS
- Modifying the file system table
- External storage
 - Finding and configuring devices

Module 9 - Access Control to a VTS

- Features
- Configuration

Module 10 - VTS Features

- Data compression
- HSM (Hierarchical Storage Management)
- Instant/DR and AutoCopy
- Scan/cleanup

Module 11 - Troubleshooting VTS

- Securing the VTS configuration
- HVD/LVD converter
- Proliant server
- Hard drives
- Filesystem
- MSA/SAN
- EMS messaging
- Useful tools
- IMPORT/EXPORT

Onsite Delivery Equipment Requirements

- One NonStop server with
 - Two CPUs and two IOMF/2 + 1 NS + Fibre channel
 - External storage: one HP XP and/or EVA
 - NonStop kernel operating system, any hxx version for NonStop servers
 - Four free SCSI connections on the system
- Two 6530 terminals or equivalent PC/workstation for instructor demonstrations
- 6530 terminal or equivalent PC/workstation per student
- VT5900-X VTS with HDV/LDV converter - SCSI cables - software licenses

Learn more at

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