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LSM internals and troubleshooting u3705s

course overview

This 3 day lecture-lab course focuses on the internals of the Logical Storage Manager (LSM). Practical troubleshooting training on LSM is also presented.

audience

This course is designed for CS support-level engineers who service or support LSM configurations.

pre-requisites

To get the most from this course, you should be able to:

- Install and manage an hp Tru64 UNIX system
- Install layered products and register license PAKs
- Troubleshoot the operating system and make adjustments to improve performance
- Manage traditional UNIX disk partitions
- Perform typical UNIX system management tasks
- Use the hp Tru64 UNIX kernel configuration tools
- Set up and manage the LSM and hardware RAID using the command line or graphical user interface

course objectives

Upon successful completion of this course, you should be able to:

- Describe LSM internals (architecture, components, data structures, functions/commands, and algorithms)
- Troubleshoot, either separately or in some combination, LSM problems

to order

You can order this course online at http://education.hp.com. At the site, select a country, then choose "registration" or "Book a course" and fill out the online registration form.

detailed course outline: LSM internals and troubleshooting u3705s

module	key topics
LSM concepts	• introducing the Logical Storage Manager • using physical and logical storage • reviewing storage management concepts • maintaining LSM configuration information • listing more files an d parameters • using daemons and drivers • initializing LSM
LSM sources and debugging	• creating the LSM porting model • organizing source directories • explaining message passing • debugging with LSM source code • debugging an LSM command • debugging the vold daemon • debugging the UNIX kernel • saving console output
LSM daemons and commands	• initializing the volume configuration daemon • communicating with the volume daemon • using the volume extended I/O daemon • using LSM interfaces • describing command interface to the vold daemon
LSM algorithms	• reviewing LSM commands • adding disks to LSM • creating a new disk group • initializing disks in an LSM configuration • adding disks to a disk group • creating subdisks, plexes and volumes • removing and moving a disk group • encapsulating and mirroring • performing synchronization • dirty-region logging • describing hot-sparring
troubleshooting LSM	• explaining LSM troubleshooting practices • case studies

for more information

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