



HP Education Services

HP Extended Distance Clusters for HP-UX and Linux (HB507S)

This advanced course teaches system administrators about disaster tolerant clusters design and infrastructure. Topics include disaster tolerance concepts, overview of the architectures involved, installation and configuration of a Metrocluster and Continentalclusters, configuring a package in a Metrocluster, theory of product operation, basic Metrocluster maintenance and troubleshooting, maintenance mode, and disaster recovery dress rehearsal. The course is 60 percent lecture and 40 percent hands-on labs using HP Integrity and ProLiant servers and HP 3PAR storage systems.

Audience

- Senior systems administrators involved in planning, design, implementation, and support of a Serviceguard Metrocluster or Continentalcluster

Prerequisites

- HP-UX System and Network Administration I (H3064S) and HP-UX System and Network Administration II (H3065S) or
- HP-UX System and Network Administration for Experienced UNIX® System Administrators (H5875S) and
- HP Serviceguard I (H6487S) or equivalent experience and
- HP 3PAR storage technology experience recommended

Course objectives

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

- Understand the concepts of HP Serviceguard Extended Distance Clusters
- Install and configure HP Metrocluster
- Configure an HP Metrocluster package
- Manage and maintain HP Metrocluster
- Perform basic Metrocluster troubleshooting
- Configure Continentalclusters
- Perform a Continentalclusters recovery dress rehearsal

Course title:	HP Extended Distance Clusters for HP-UX and Linux
HP product number:	HB507S
Category/Subcategory:	HP-UX / UNIX
Course length:	3 days
Level:	Advanced
Delivery language:	English
To order:	You can register your interest for this course online at http://www.hp.com.au/education . At the site, select the course under Unix / Linux portfolio and you will see dates for the course. Register your interest for the date of your choice.

Benefits to you

- Reduce time required to design and implement an HP Metrocluster or Continentalcluster solution while configuring your own equipment
- Learn how to provide a higher level of data currency and application availability without significant impact to application performance

- Increase your Data Center's level of protection and system availability during planned and unplanned downtime so users experience smooth functioning IT operations

Why education services from HP?

- Recognized as an IDC MarketScape leader for IT education (IDC MarketScape: Worldwide IT Education and Training 2012 Vendor Analysis, doc #232870, February 2012)
- Unmatched technical expertise and support for HP products and technologies
- Comprehensive curriculum of job-specific training leading to vendor certification
- More than 30 years of Education Consulting
- Global training with more than 90 training locations worldwide

Next steps

- HP Systems Insight Manager (HB508S) or consider attending other courses in the HP Virtual Server Environment curriculum to learn more about virtualization

Detailed course outline

Disaster Recovery Concepts

- Levels of availability
- Disaster tolerance architectures, requirements, and rules
- Disaster tolerant design guidelines and tradeoffs
- Choosing the right solution
- Physical and logical replication advantages and disadvantages
- Rolling disasters

Disaster Recovery Cluster Architectures

- Range of architectures
- Local cluster: Serviceguard
- Serviceguard comparative features
- Extended distance clusters: Serviceguard
- Extended cluster rules and configuration requirements
- Two and three data center extended cluster architecture
- Arbitrator systems and quorum server
- Extended distance cluster comparative features
- Metrocluster and rules
- Two data centers and a third location Metrocluster architecture
- Metrocluster disk architecture
- Extended distance cluster and Metrocluster network architecture
- Metrocluster connectivity and comparative features
- Continentalclusters and configurations

- Continentalclusters comparative features
- Criteria for choosing a cluster architecture

Metrocluster with 3PAR Remote Copy

- Product description and dependencies
- General cluster and configuration requirements
- 3PAR storage system concepts
- Remote Copy configurations
- Metrocluster site-aware failover

Metrocluster with 3PAR Remote Copy Installation and Configuration

- Installation and configuration steps
- Create the Metrocluster package
- 3PAR and Remote Copy commands

Metrocluster with 3PAR Remote Copy Theory of Operations

- Basic design
- Components in Metrocluster 3PAR Remote Copy
- Remote Copy operation
- Synchronous and asynchronous replication
- Remote Copy volume group roles
- Failure scenarios

Metrocluster Problem Analysis and Troubleshooting

- Troubleshooting
- Cluster problems
- Package problems
- 3PAR storage system problems
- Patches

Disaster Recovery with Continentalclusters

- Continentalclusters architectures
- Installation and configuration of Continentalclusters
- Testing packages and operations

Disaster Recovery Rehearsal with Continentalclusters

- Network migration options
- Enabling and disabling maintenance mode
- Steps for a disaster recovery rehearsal

For more information

To locate contact information and to learn more about education services, please visit our web site at <http://www.hp.com.au/education> .

