Hewlett Packard Enterprise

HPE Extended Distance Clusters for HP-UX and Linux HB507S

HPE course number	HB507S
Course length	3 days
Delivery mode	ILT
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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 HPE Integrity and ProLiant servers and HPE 3PAR storage systems.

Why HPE Education Services?

- IDC MarketScape leader 4 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 (ISC)²
- 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, IDC Infographic 2037, Sponsored by HPE, January 2016

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
- HPE Serviceguard I (H6487S) or equivalent experience and
- HPE 3PAR storage technology experience recommended

Course objectives

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

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

Benefits to you

- Reduce time required to design and implement an HPE 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

Detailed course outline

Module 1: 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
Module 2: 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
Module 3: 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
Module 4: Metrocluster with 3PAR Remote Copy Installation and Configuration	• Installation and configuration steps • Create the Metrocluster package • 3PAR and Remote Copy commands
Module 5: 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
Module 6: Metrocluster Problem Analysis and Troubleshooting	• Troubleshooting • Cluster problems • Package problems • 3PAR storage system problems • Patches
Module 7: Disaster Recovery with Continentalclusters	• Continentalclusters architectures • Installation and configuration of Continentalclusters • Testing packages and operations
Module 8: Disaster Recovery Rehearsal with Continentalclusters	• Network migration options • Enabling and disabling maintenance mode • Steps for a disaster recovery rehearsal

Next steps

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

Learn more at
hpe.com/ww/learnhpuxintegrity

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