



HPE Serviceguard on Linux for HP-UX Administrators H4C11S

HPE course number	H4C11S
Course length	2 days
Delivery mode	ILT
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This course is designed for experienced Serviceguard on HP-UX administrators who will be implementing Serviceguard A.12.00 on Linux®. Topics include the major differences between the implementations, in particular the installation of Serviceguard, the active/standby LAN interface mechanism using Linux NIC bonding and LVM volume group activation using hosttags. The course is 50 percent lecture and 50 percent hands-on labs using Linux version RHEL 6.4.

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Audience

- Experienced Serviceguard on HP-UX system administrators who may have attended HPE Serviceguard I (H6487S) or have equivalent HPE Serviceguard administration experience

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-UX Logical Volume Manager (H6285S) and
- Linux administration experience, although useful, is not essential

Course objectives

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

- Configure a Serviceguard cluster and packages on Linux
- Understand the differences between Serviceguard on HP-UX and Linux
- Configure an Oracle 11gR2 database package using the Oracle toolkit, the cluster simulator, and analytics utilities

Benefits to you

- Protect your mission-critical applications against a wide variety of hardware and software failures through effective use of Serviceguard on Linux
- Reduce your application downtime to near zero by learning how to configure your Serviceguard cluster and using Serviceguard's rolling upgrade facility
- Minimize, and in some instances eliminate, your application downtime by learning how to automate the detection of failures and restoration of application service

*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Detailed course outline

Module 1: Introduction

- Objectives
 - Prerequisites
 - What the course IS and IS NOT
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Module 2: Linux Device Files

- Disk storage
 - Partitions and swap
 - /proc
 - Network interfaces
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Module 3: Storage for Serviceguard

- Disk storage management overview
 - Persistent reservations using SCSI-3
 - Review of LVM concepts
 - Configure a shared LVM volume group
 - Review of VxVM concepts
 - Configure a shared VxVM data group
 - Configure and use hosttags
 - HP-UX and Linux VG activation differences
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Module 4: Channel Bonding in Linux

- Standby LAN differences in HP-UX and Linux
 - HP-UX active/standby LAN
 - Linux active/standby LAN using channel bonding
 - Configuring Linux channel bonding
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Module 5: Serviceguard Install

- Software installation differences in HP-UX and Linux
 - Prerequisite software packages for HPE Serviceguard A.12.00
 - Install Serviceguard A.12.00
 - Using "cmeasyinstall"
 - Install and configure the Serviceguard Quorum server
 - Install Serviceguard Manager
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Module 6: Serviceguard HP-UX Linux Differences

- Network discovery and monitoring
 - Volume management
 - File systems
 - Configure a shared LVM volume group
 - Serviceguard directories and files
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Module 7: Cluster Configuration

- Steps to configure a Serviceguard cluster
 - Configure a LockLun
 - Convert a running cluster to use a Quorum server
 - View the cluster status
 - The cluster log file
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Module 8: Packages and Services

- Review package concepts
 - Modular packages
 - Create and configure a Serviceguard package using shared storage
 - The package log file
 - Configure and use hosttags
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Module 9: Serviceguard Toolkits

- Describe the available Serviceguard on Linux toolkits
 - Using the Oracle toolkit to create an Oracle 11gR2 package
 - Testing the Oracle package
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Course data sheet

Module 10: Cluster Simulation	<ul style="list-style-type: none">• Investigate the simulator interface and actions
Module 11: Cluster Analytics	<ul style="list-style-type: none">• Install the Analytics utility• Display data collected by Serviceguard Cluster Analytics
Module 12: Serviceguard Manager	<ul style="list-style-type: none">• Discuss the components of Serviceguard Manager• Navigate the Serviceguard Manager interface

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