



# HPE Serviceguard on Linux for HP-UX Administrators H4C11S

<b>HPE course number</b>	H4C11S
<b>Course length</b>	2 days
<b>Delivery mode</b>	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.

## Why HPE Education Services?

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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

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**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

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

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