

HPE Serviceguard on Linux H4C12S

HPE course number	H4C12S
Course length	3 days
Delivery mode	VILT
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This course is designed for experienced Linux system and network administrators implementing HPE Serviceguard. Topics include the basic requirements of a highly available system and progress through to the configuration of a Serviceguard cluster/packages along with the cluster simulator and analytics utilities

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Audience

Linux system and network administrators who currently, or soon will, develop, design, implement, and monitor Serviceguard (SG) clusters on Linux

Prerequisites

Background in Linux system and network administration

Course objectives

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

- Configure, implement, and manage an HPE SG cluster and packages
- Install HPE Serviceguard A.12.80 and Serviceguard Manager
- Install Serviceguard
- Utilize basic troubleshooting techniques
- Configure Packages
- Configure generic resources
- Use the SG simulator and SG cluster analytics

Detailed course outline

Module 1: Course Introduction

Module 2: Introduction to High Availability

- What is high availability and reducing the risk
- Storage technologies and HA network design

Module 3: High Availability with Serviceguard (SG)

- SG features and benefits and SG packages
- Minimizing planned downtime
- Installing prerequisite software
- Serviceguard Manager

Module 4: Storage for Serviceguard

- Volume management
- Persistent reservation overview
- Review of LVM and VxVM concepts
- Configure a shared LVM volume and VxVM data group
- Using hosttags

Module 5: Cluster Concepts and Configuration

- Describe the difference between heartbeat, stationary, and standby LAN interfaces
- Configure active/standby LAN interfaces using channel bonding
- Cluster arbitration using a LockLUN and Quorum server
- Steps to configure a Serviceguard cluster
- View the status of the cluster and log file

Module 6: Additional Cluster Features

- Test the local LAN failover
- Node failures and cluster reformation
- Node joining and leaving a cluster
- Basic cluster management

Module 7: Packages and Services

- Configure a basic Serviceguard package
- The package configuration file
- Package and node switching management
- Interpret package status from cmviewcl
- Package log file

Module 8: Package Policies

- Package FAILOVER and FAILBACK policies
- Package access control
- Using package dependencies, priorities, and weights

Module 9: Generic Resources

- Configure and use generic resources in a package

Module 10: Introduction to Site Disaster Tolerant Architecture (SADTA)

- Grouping packages and Managing packages

Module 11: Application Monitoring Scripts and Toolkits

- Writing and using an application monitor
- The package control script
- Application integration toolkits

Module 11: Cluster and Package Online Reconfiguration

- Cluster modifications online and online package modifications
 - Storage reconfiguration
 - Add and remove a node or package while the cluster is running
 - Package Maintenance
 - Live Application Detatch (LAD)
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Module 13: Cluster Troubleshooting

- Test clusters and packages for problems
- Using the log files
- Using Serviceguard commands for troubleshooting
- Approaches to troubleshooting
- Cluster Simulation
- Cluster Analytics

Module 14: Advanced Toolkits

- Discuss the following toolkits for Serviceguard: SAP/HANA, Oracle, MS/SQL on Linux, DB2

Module A: Highly Available Oracle Database

- Install the Oracle database toolkit
- Configure an Oracle 11gR2 database package using the Oracle toolkit
- Check the operation of the Oracle database and failover
- Optional: Configure an Oracle 12g database package using the Oracle toolkit
- Check the operation of the Oracle database and failover

Module B: Highly Available NFS

- Install the NFS server toolkit
- Configure an NFS server package using the NFS toolkit
- Configure an NFS client package
- Test the NFS server package for various failures
- Package partial startup

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