

Course Length: 3 days

IT architects taking this course will be able to plan high available server clusters and systems administrators will be able to create and operate clusters. This practical course explains how to achieve high availability with Linux-HA or pacemaker and Linux Virtual Server (LVS).

The basics of HA like syncing data between two nodes (DRBD), arbitrary fail-over conditions, operating and monitoring of clusters are covered. Additionally the following technologies are used in the class: heartbeat, OpenAIS, pacemaker, ldirectord, DRBD, cluster filesystems like OCFS2, and Linux Virtual Servers as a load balancer.

Prerequisites:

This course requires a good understanding of Linux services and networking. These skills are taught in the GL250 "Red Hat Linux Systems Administration" and GL275 "Red Hat Linux Network Services".

Supported Distributions:

Debian 5.0.3 (Lenny)
SUSE Linux Enterprise 11
Red Hat Enterprise Linux 5

Course Outline:

1. Basics of High Availability
2. Concepts and Architecture
3. Installation and First Configuration
4. Resources and Constraints
5. Administration: GUI and Command Line Interface
6. Advanced Configuration
7. Advanced Administration
8. Practical Considerations
9. Development of Your Own Resource Agents
10. Operation of a Cluster
11. Linux Virtual Server
12. Basics and Architecture
13. Installation
14. Manual Configuration
15. Pacemaker and the ldirectord
16. Operation