



LINUX TRAINING

Suse Linux Enterprise 15 High Availability Deployment Course Hae311v15

Master Suse Linux Enterprise 15 High Availability Deployment. Learn to build resilient, fault-tolerant systems for critical services.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intensive intermediate-level course, "Suse Linux Enterprise 15 High Availability Deployment (Hae311v15)", is meticulously designed for IT professionals aiming to master the deployment and management of robust high-availability clusters on SUSE Linux Enterprise Server 15. Participants will delve deep into critical open-source technologies such as Pacemaker and Corosync, learning how to configure, monitor, and maintain resilient systems that minimize downtime and ensure continuous service availability for mission-critical applications. This course moves beyond theoretical concepts, focusing on practical, hands-on deployment strategies essential for creating fault-tolerant infrastructures.

By completing this course, you will acquire the expertise to design and implement highly available solutions that protect against single points of failure, a crucial skill in today's demanding enterprise environments. You'll gain proficiency in configuring shared storage solutions like DRBD, managing complex cluster resources, and understanding the intricacies of cluster communication and fencing mechanisms. The professional benefit lies in your enhanced ability to build and support enterprise-grade systems, making you an invaluable asset in organizations where uptime and reliability are paramount, ultimately boosting your career trajectory in system administration and DevOps roles.

Duration	2 hours
Level	Intermediate
Vendor	Linux

COURSE CURRICULUM

01 Module 1: Introduction to High Availability and SLES 15 Clusters

- Understanding High Availability Concepts and Business Continuity
- Overview of SUSE Linux Enterprise Server 15 for HA
- HA Cluster Architectures and Components: Corosync and Pacemaker
- Planning for a Highly Available Environment: Requirements and Design

02 Module 2: Core HA Cluster Technologies and Setup

- Introduction to Pacemaker: The Cluster Resource Manager
- Introduction to Corosync: The Cluster Communication System
- Initial Cluster Setup and Configuration on SLES 15
- Managing Cluster Membership and Quorum
- Authentication and Security in HA Clusters

03 Module 3: Shared Storage and Resource Management

- Configuring Shared Storage Solutions: DRBD, iSCSI
- Managing Cluster Resources: Primitive and Group Resources
- Understanding Resource Agents and their Configuration
- Implementing Fencing (STONITH) Mechanisms for Data Integrity
- Configuring Advanced Resource Constraints and Dependencies

04 Module 4: Advanced HA Deployment and Monitoring

- Deploying and Managing Virtual IP Addresses
- Configuring Highly Available Filesystem Resources
- Integrating HA with Enterprise Applications (e.g., databases, web servers)
- Monitoring Cluster Health, Performance, and Events
- Utilizing crm shell and Hawk for Cluster Management

05 Module 5: Troubleshooting and Maintenance

- Common HA Cluster Issues and Diagnostics
- Utilizing Cluster Logs and Tools for Effective Troubleshooting
- Performing Cluster Updates and Planned Maintenance
- Strategies for Disaster Recovery Planning in HA Environments
- Best Practices for Long-Term Cluster Stability and Performance

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Enterprise Linux High Availability Administrator**
- > **Mission-Critical Systems Engineer**
- > **DevOps Reliability Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What are the prerequisites for enrolling in the Suse Linux Enterprise 15 High Availability Deployment Course (Hae311v15)?

This intermediate-level course assumes a solid foundational knowledge of SUSE Linux Enterprise Server administration, including command-line navigation, package management, network configuration, and basic system troubleshooting. Familiarity with virtualization concepts is also beneficial. While not strictly mandatory, prior experience with Linux server deployment and fundamental networking principles is highly recommended to maximize your learning experience and grasp the complexities of HA.

Q: How will mastering high availability deployment on SLES 15 impact my ability to manage critical enterprise systems?

By mastering high availability deployment, you'll gain the critical skills to design, implement, and maintain fault-tolerant systems that guarantee minimal downtime for essential business services. This directly translates to improved system reliability, reduced operational risks, and the ability to ensure business continuity, making you an indispensable asset in any IT department managing mission-critical applications and services on a Linux platform. You'll be able to confidently build resilient infrastructures that meet stringent SLAs.

Q: Does this course cover specific scenarios for integrating HA clusters with common enterprise applications like databases or web servers?

Yes, while the primary focus is on the core Pacemaker/Corosync framework and shared storage, the course provides practical insights into configuring cluster resources for common services. You will learn how to define and manage resources such as file systems, virtual IP addresses, and generic services that can be adapted to various applications, including databases like PostgreSQL or web servers like Apache, ensuring they benefit from the cluster's high availability capabilities. The principles learned are highly transferable to any application requiring continuous uptime.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

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10,000+

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READY TO ENROL?

Take the next step in your technology career.

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