Study Plan

Red Hat Administration (RH-ADM)

About This Course

The Red Hat Administration course equips you with the skills to effectively manage and administer Red Hat systems. You will learn basic administration skills such as system configuration, user management, package management, network administration, and security implementation.

By the end of the course, you will possess the abilities to administer Red Hat systems, ensuring stability, security, and optimal performance. You will handle system updates, implement access controls, and resolve system-related problems efficiently.
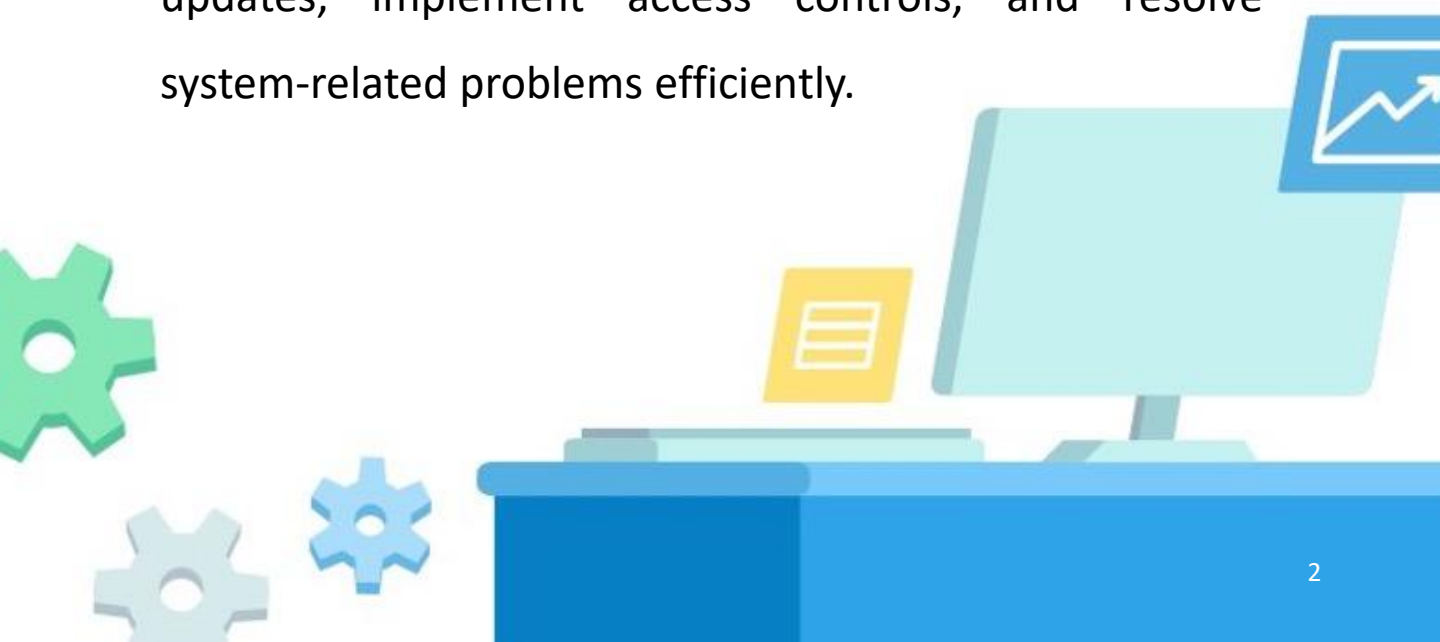
Summary

Training Duration: 32 Hours (4 Days)

Course Main Subjects

- Introduction
- Accessing Systems and Obtaining Support
- Navigating File Systems
- Managing Local Users and Groups
- Controlling Access to Files
- Managing SELinux Security
- Tuning System Performance
- Installing and Updating Software Packages
- Managing Basic Storage
- Controlling Services and the Boot Process
- Managing Networking
- Analyzing and Storing Logs
- Implementing Advanced Storage Features
- Scheduling Future Tasks
- Accessing Network-Attached Storage
- Managing Network Security
- Running Containers
- Comprehensive Review
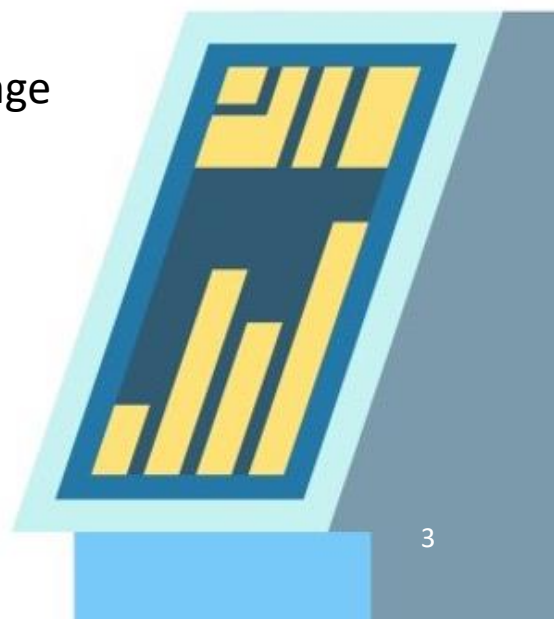
Target Audience

System Administrators, Cloud Administrators, Developers, Site Reliability Engineer.

Prerequisites

• LF-ADM

Learning Output

• The learning topics will assist participants in :
• Acquire proficiency in essential system administration tasks such as accessing systems, navigating file systems, managing users and groups, controlling file access, and implementing SELinux security.
• Learn techniques to analyze and improve system performance, ensuring efficient resource utilization.
• Gain skills in configuring and troubleshooting network settings, as well as implementing network security measures.
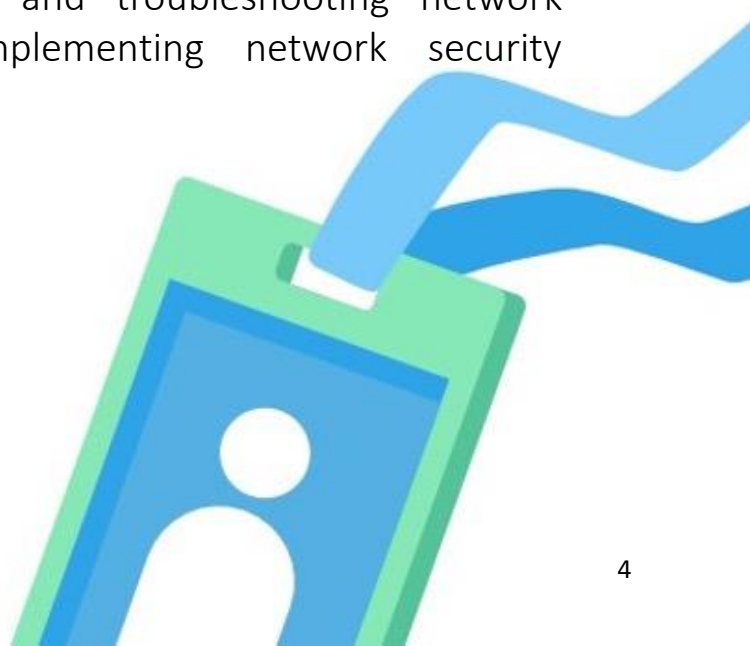
Requirements

Have a laptop/computer with min. specifications and installed tools:

Operating System	Windows, Linux, or MacOs
Processor	Intel Core i3
Memory	4 GB RAM
SSH Client	Termius / Putty / MobaXTerm
Text Editor	Sublime Text / VSCode
Browser	Chrome and Firefox

Facilities

- Virtual machine (Available until H+5 post training)
- Class materials (1 Year Access)
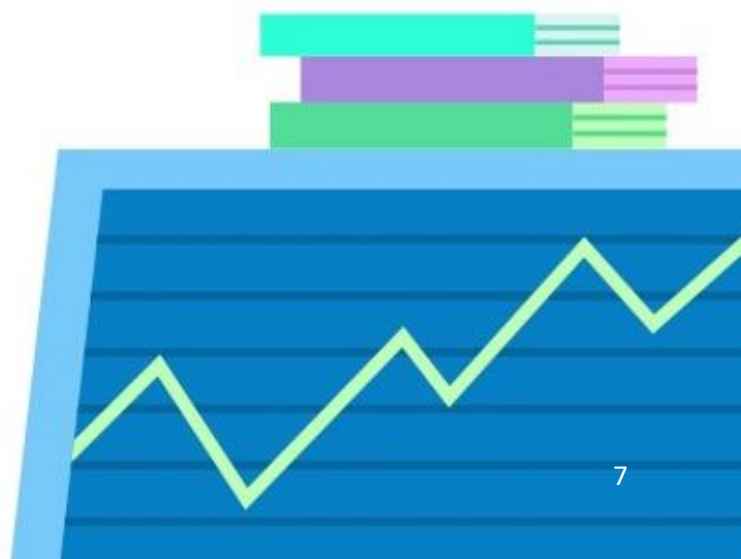- Certificate
- Recording (VITL)

Certification

- Certificate of Course Completion
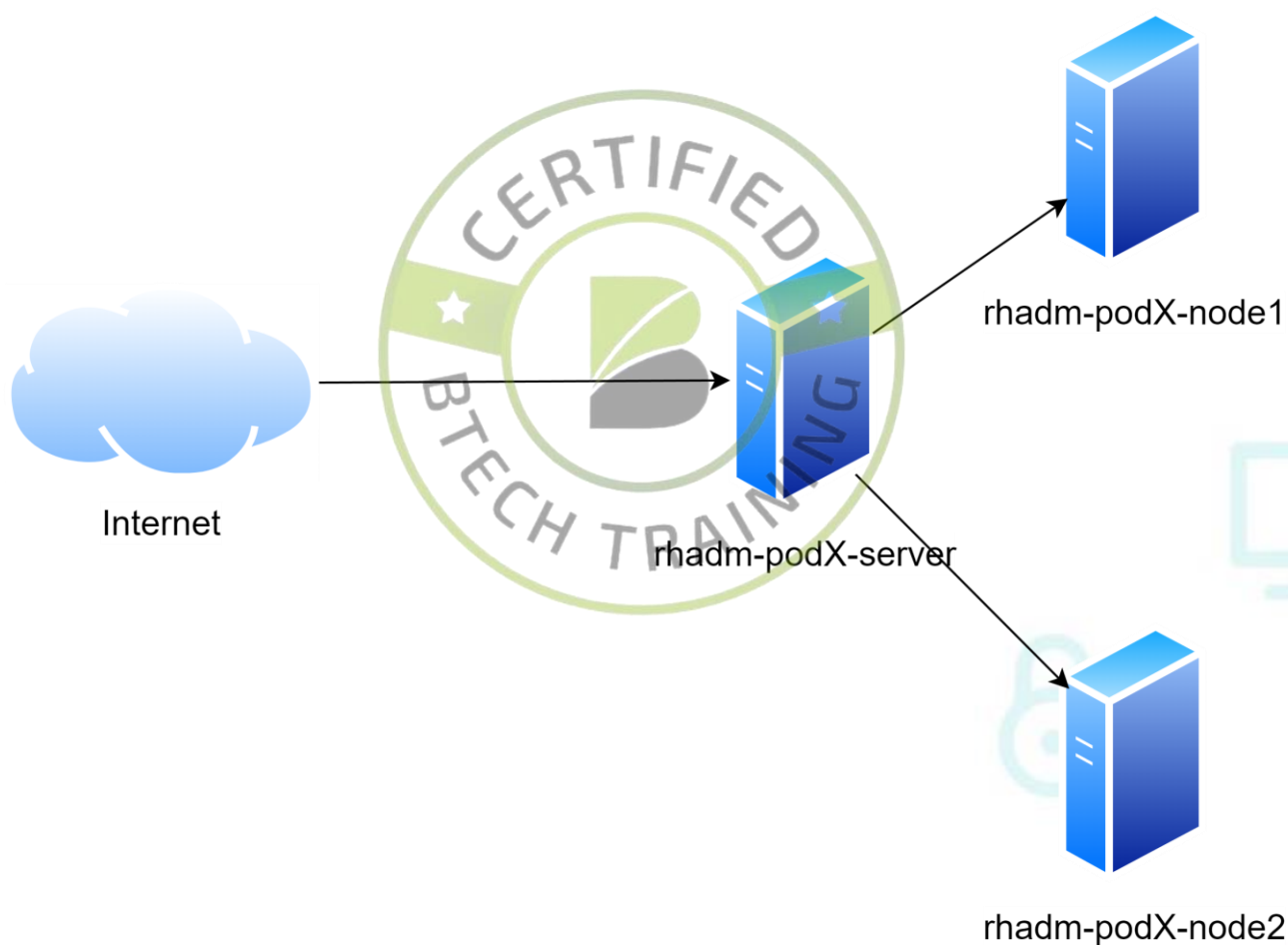- Btech Internal Exam (optional)

Learning Strategies

- Theory

- Study Case

- Pre-Test & Post-Test

- Quiz / Internal Exam

- Hands-on Lab

Training Topology

Internet

rhadm-podX-server

rhadm-podX-node1

rhadm-podX-node2

Learning Modules

Training Plan	
Topic	**Outcome**
Introduction	• Gain a comprehensive understanding of Red Hat Administration principles and concepts. • Familiarize yourself with the course objectives and expectations.
Accessing Systems and Obtaining Support	• Learn how to securely access Red Hat systems using various methods (e.g., SSH, console). • Acquire knowledge on obtaining support resources and effectively troubleshooting system issues.
Navigating File Systems	• Master the skills to navigate and manage file systems efficiently. • Learn essential commands and techniques to locate, create, modify, and delete files and directories.
Managing Local Users and Groups:	• Acquire the ability to create and manage user accounts and groups. • Understand user and group permissions, and learn how to assign appropriate access levels.

Topic	Outcome
Controlling Access to Files	• Learn techniques to control file access through permissions and ownership. • Explore advanced access control mechanisms like Access Control Lists (ACLs).
Managing SELinux Security	• Understand the fundamentals of SELinux and its role in system security. • Learn how to manage SELinux policies to enhance system protection.
Tuning System Performance	• Acquire knowledge on monitoring and optimizing system performance. • Learn techniques to identify and resolve performance bottlenecks.
Installing and Updating Software Packages	• Master package management using tools like YUM. • Understand the process of installing, updating, and removing software packages efficiently.
Managing Basic Storage	• Learn how to manage and configure basic storage devices and partitions. • Acquire skills to create and manage file systems for efficient data storage.
Controlling Services and the Boot Process	• Gain expertise in managing system services and their configurations. • Understand the boot process and learn how to control it effectively.
Managing Networking	• Acquire knowledge of networking concepts and protocols. • Learn how to configure and troubleshoot network interfaces and connectivity.

Topic	Outcome
Analyzing and Storing Logs	• Learn techniques to analyze and interpret system logs for troubleshooting purposes. • Understand log storage, rotation, and best practices for effective log management.
Implementing Advanced Storage Features	• Acquire skills to implement advanced storage features like Logical Volume Manager (LVM) and RAID. • Learn how to optimize storage performance and ensure data redundancy.
Scheduling Future Tasks	• Understand how to automate tasks using the cron scheduling system. • Learn to schedule regular system maintenance and administrative tasks.
Accessing Network-Attached Storage	• Gain the knowledge to configure and access network-attached storage devices. • Understand protocols like NFS and how to utilize them for shared storage.
Managing Network Security	• Acquire skills to configure and manage network security measures, including firewalls. • Learn about intrusion detection and prevention mechanisms for enhanced network protection.
Running Containers	• Understand the basics of containerization and the benefits it provides. • Learn how to manage containers using tools like Docker for efficient application deployment.
Comprehensive Review	• Recap and review the key concepts and topics covered throughout the course. • Consolidate your knowledge and ensure a comprehensive understanding of Red Hat Administration principles.

Thank You

Another Course :

https://adinusa.id/pro-training