LINUX ADMINISTRATION WITH SCRIPTING
Duration: 60 Hrs.

Overview

Linux Essentials and Administration is designed for Linux system administrators who are interested in learning essential system administration skills for Enterprise Linux. The program provides-hands-on training to effectively use, customizes, and script common command line utilities. In addition, administrators will learn how to perform essential system administration tasks including basic installation, package management, and user management procedures.

Course Objective

This 60 hours training program will help participants understand the basic concepts of Linux, User management, Disk Management, Package Management, Server Management, Security Implementation and Scripting etc.

Prerequisite

User-level experience with any computer operating system is required to understand the Linux Administration with Scripting.

Learning Content

Topic	Sub Topic
Basic Concepts	Course
	Linux History, overview, Principles,
	Getting started with GNOME and edit text files with gedit, Manage files graphically and access remote systems with Nautilus, Getting help in graphical environment
	Installation overview, directory structure
	Installation Graphical
	Configuring Local Services, date and time, configuration of printer
	Basic commands
	vi editor
	manage users and groups
Disk Management	Partition, Swap Creation
	lvm
	quota management and permanent mounting
	Raid, Luks
Management	basic job control or cron

of Linux	use of helping command
	scp or ssh
	Filter Commands
	Understand runlevels
Package Administration	Package installation with rpm
	Package installation with yum
Servers and Security	Use hardlinks, softlink, archives
	Regular Expressions, Pipelines, and I/O Redirection
	nfs, cifs and autofs
	Ldap
	Controlling Access to Files
	Analyzing and Storing Logs
	Managing Processes
	Tuning and Maintaining the Kernel
	System Recovery Techniques
	Enhance User Security
	Apache Server
	File Security with GnuPG
	Route Network Traffic
	Secure Network Traffic
	NTP Server Configuration
	Web Server Additional Configuration
	Basic SMTP Configuration
	Caching-Only DNS Server
	FTP
	squid
	samba
	dhcp
	nis
	pam, iptables, TCP Wrappers
Shell Scripting	Bash Scripting and Tools
	Basic Shell Scripting
	Graphical tools of Scripting (Zenity and dialogs)