

Course Outline



Red Hat Certified System Administrator (RHCSA)

Module	Topics	Objectives
Red Hat System Administration I	Get started with Red Hat Enterprise Linux	Describe and define open source, Linux distributions, and Red Hat Enterprise Linux.
	Access the command line	Log into a Linux system and run simple commands using the shell.
	Manage files from the command line	Copy, move, create, delete, and organize files while working from the bash shell.
	Get help in Red Hat Enterprise Linux	Resolve problems by using local help systems.
	Create, view, and edit text files	Manage text files from command output or in a text editor.
	Manage local users and groups	Create, manage, and delete local users and groups, as well as administer local password policies.
	Control access to files	Set Linux file system permissions on files and interpret the security effects of different permission settings.
	Monitor and manage Linux processes	Evaluate and control processes running on a Red Hat Enterprise Linux system.
	Control services and daemons	Control and monitor network services and system daemons using system.
	Configure and secure SSH	Configure secure command line service on remote systems, using OpenSSH.
	Analyze and store logs	Locate and accurately interpret logs of system events for troubleshooting purposes.
	Manage networking	Configure network interfaces and settings on Red Hat Enterprise Linux servers.
	Archive and transfer files	Archive and copy files from one system to another.
Install and update software	Download, install, update, and manage software packages from Red Hat and yum package repositories.	

	Access Linux files systems	Access, inspect, and use existing file systems on storage attached to a Linux server.
	Analyze servers and get support	Investigate and resolve issues in the web-based management interface, getting support from Red Hat to help solve problems.
	Comprehensive review	Review the content covered in this course by completing hands-on exercises.
Red Hat System Administration II	Improve command line productivity	Run commands more efficiently by using advanced features of the Bash shell, shell scripts, and various utilities provided by Red Hat Enterprise Linux.
	Schedule future tasks	Schedule commands to run in the future, either one time or on a repeating schedule.
	Tune system performance	Improve system performance by setting tuning parameters and adjusting scheduling priority of processes.
	Control access to files with ACLs	Interpret and set access control lists (ACLs) on files to handle situations requiring complex user and group access permissions.
	Manage SELinux security	Protect and manage the security of a server by using SELinux.
	Manage basic storage	Create and manage storage devices, partitions, file systems, and swap spaces from the command line.
	Manage logical volumes	Create and manage logical volumes containing file systems and swap spaces from the command line.
	Implement advanced storage features	Manage storage using the Stratis local storage management system and use VDO volumes to optimize storage space in use.
	Access network-attached storage	Use the NFS protocol to administer network-attached storage.
	Control the boot process	Manage the boot process to control services offered and to troubleshoot and repair problems.
	Manage network security	Control network connections to services using the system firewall and SELinux rules.
	Install Red Hat Enterprise Linux	Install Red Hat Enterprise Linux on servers and virtual machines.
Run Containers	Obtain, run, and manage simple, lightweight services as containers on a single Red Hat Enterprise Linux server.	