

**Red Hat Certified System
Administrator (RHCSA)**

Online Course



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Red Hat Certified System Administrator (RHCSA)

Course Modules

1. Understand and use essential tools

- Access a shell prompt & issue commands with correct syntax
- Use input-output redirection (>, >>, |, 2>, etc.)
- Use grep and regular expressions to analyze text
- Access remote systems using SSH
- Log in and switch users in multiuser targets
- Archive, compress, unpack, and uncompress files
- Create and edit text files
- Create, delete, copy, and move files and directories
- Create hard and soft links
- List, set, and change standard ugo/rwx permissions
- Locate, read, and use system documentation



2. Create simple shell scripts

- Conditionally execute code (use of: if, test, [], etc.)
- Use Looping constructs to process file, command line input
- Process script inputs (\$1, \$2, etc.)
- Processing output of shell commands within a script

3. Manage basic networking

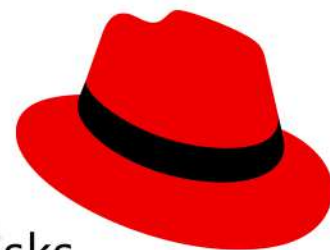
- Configure IPv4 and IPv6 addresses
- Configure hostname resolution
- Configure network services to start automatically at boot
- Restrict network access using firewall-cmd/firewall



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4. Operate running systems

- Boot, reboot, and shut down a system normally
- Boot systems into different targets manually
- Interrupt the boot process in order to gain access to a system
- Identify CPU/memory intensive processes and kill processes
- Adjust process scheduling
- Manage tuning profiles
- Locate and interpret system log files and journals
- Preserve system journals
- Start, stop, and check the status of network services
- Securely transfer files between systems



5. Configure local storage

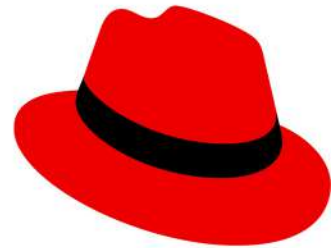
- List, create, delete partitions on MBR and GPT disks
- Create and remove physical volumes
- Assign physical volumes to volume groups
- Create and delete logical volumes
- Configure systems to mount file systems at boot
- Add new prtn & logical vol, & swap to sytm non-destructively



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6. Create and configure file systems

- Create, mount, unmount, & use vfat, ext4, & xfs file systems
- Mount and unmount network file systems using NFS
- Configure autofs
- Extend existing logical volumes
- Create and configure set-GID directories for collaboration
- Diagnose and correct file permission problems



7. Deploy, configure, and maintain systems

- Schedule tasks using at and cron
- Start & stop services & services to start automatically at boot
- Configure systems to boot into a specific target automatically
- Configure time service clients
- Install & update software pkgs from RH Ntwk, a remote repository
- Modify the system bootloader

8. Manage users and groups

- Create, delete, and modify local user accounts
- Change passwords & adjust password aging for local user acc
- Create, delete, & modify local groups & group memberships
- Configure superuser access



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9. Manage security

- Configure firewall settings using firewall-cmd/firewalld
- Manage default file permissions
- Configure key-based authentication for SSH
- Set enforcing and permissive modes for SELinux
- List and identify SELinux file and process context
- Restore default file contexts
- Manage SELinux port labels
- Use boolean settings to modify system SELinux settings
- Diagnose and address routine SELinux policy violations



10. Manage containers

- Find and retrieve container images from a remote registry
- Inspect container images
- Perform container management using commands
- Build a container from a Container file
- Perform basic container management
- Run a service inside a container
- Config a container to start automatically as a systemd service
- Attach persistent storage to a container

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