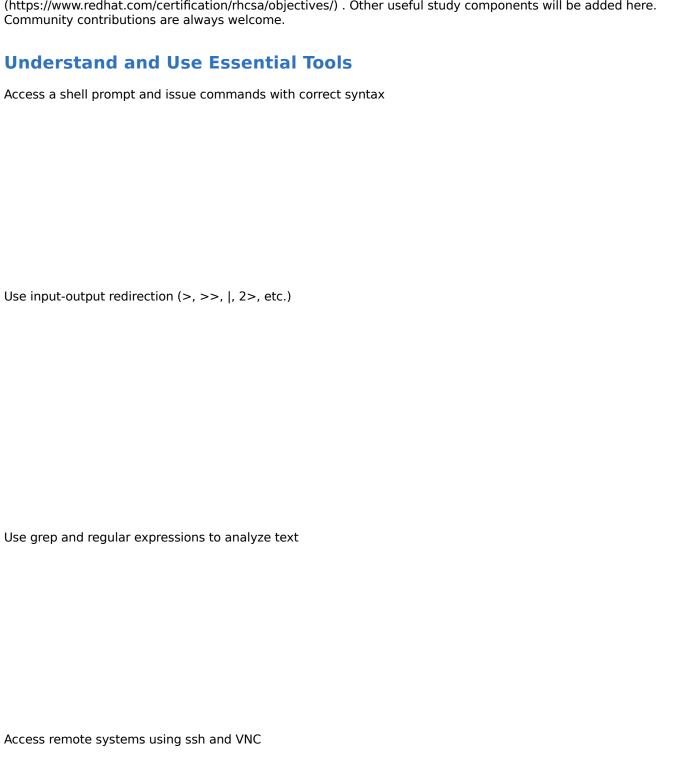
## SysadminSG RHCSA Study Guide

This is the RHCSA Study Guide for the System Administration Study Group.

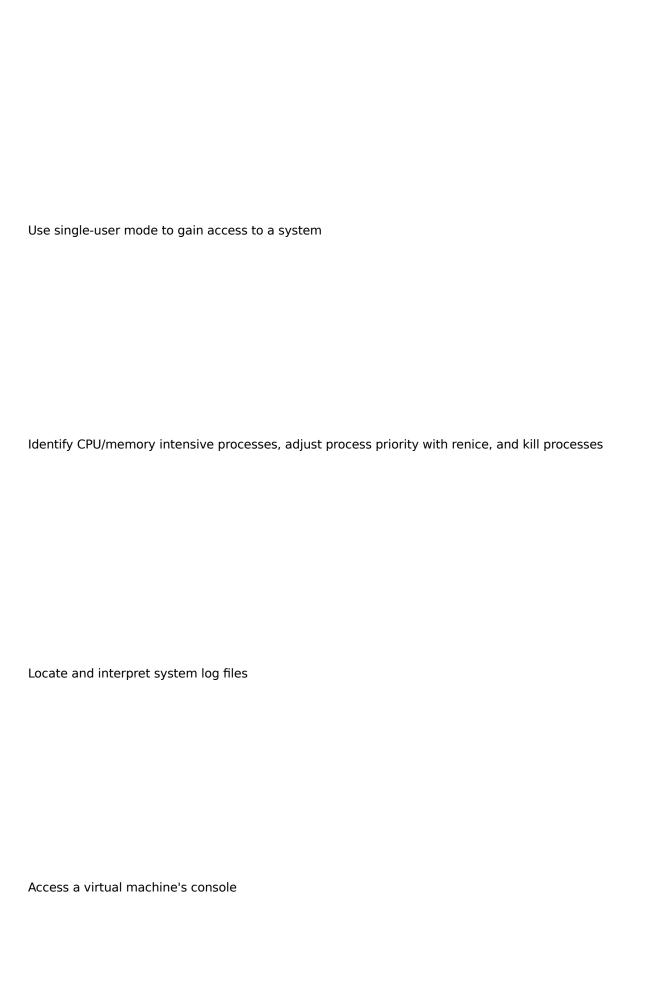
The study guide is intended to be printed by those who wish to study common tasks performed by many system administrators. This study guide is based upon the Red Hat Certified System Administrator Exam Objectives (https://www.redhat.com/certification/rhcsa/objectives/) . Other useful study components will be added here. Community contributions are always welcome.



Log in and switch users in multi-user runlevels	
Archive, compress, unpack and uncompress files using tar, star, gzip, and bzip2	
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 including man, info, and files in /usr/share/doc .
Operate Running Systems
Boot, reboot, and shut down a system normally

Boot systems into different runlevels manually



Start and stop virtual machines
Start, stop and check the status of network services
Configure Local Storage
List, create, delete and set partition type for primary, extended, and logical partitions
Create and remove physical volumes, assign physical volumes to volume groups, create and delete logical volumes

Create and configure LUKS-encrypted partitions and logical volumes to prompt for password and mount a decrypted file system at boot
Configure systems to mount file systems at boot by Universally Unique ID (UUID) or label
Configure systems to mount file systems at boot by oniversally onique ib (ooib) of label
Add new partitions, logical volumes and swap to a system non-destructively
Create and Configure File Systems  Create, mount, unmount and use ext2, ext3 and ext4 file systems

Mount, unmount and use LUKS-encrypted file systems	
Mount and unmount CIFS and NFS network file systems	
Configure systems to mount ext4, LUKS-encrypted and network file systems automatically	
Extend existing unencrypted ext4-formatted logical volumes	

Create and manage Access Control Lists (ACLs)	
Diagnose and correct file permission problems	
Deploy, Configure and Maintain Systems  Configure networking and hostname resolution statically or dynamically	
consigner networking and noscitative resolution statically of dynamically	

Create and configure set-GID directories for collaboration

Schedule tasks using cron





Install and update software packages from a remote repository, or from the local filesystem
Update the kernel package appropriately to ensure a bootable system
Modify the system bootloader
Configure a system to run a default configuration NTP server and synchronize time using other NTP peers
Manage Users and Groups

Create, delete, and modify local user accounts
Change passwords and adjust password aging for local user accounts
Create, delete and modify local groups and group memberships
Configure a system to use an existing LDAP directory service for user and group information
Manage Security

Configure firewall settings using system-config-firewall or iptables

