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|  | **Services** |
| *chkconfig --list* | Displays the current status of services |
| [***ls /etc/init.d/***](https://linuxsimply.com/ls-command-in-linux/) | Lists the available startup scripts |
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| *systemctl -at service* | Displays a list of all available services on the system |
| [***ls***](https://linuxsimply.com/ls-command-in-linux/)[***/etc/systemd/sy***](https://linuxsimply.com/ls-command-in-linux/)[***stem/\*.service***](https://linuxsimply.com/ls-command-in-linux/) | Lists all systemd unit files ending in .service |
| *service -- status - all* | Displays the status of all available system services |
| *systemctl -t service -- state=active* | Displays a list of active services managed by systemd |
| [***service name***](https://linuxsimply.com/service-command-in-linux/)[***start***](https://linuxsimply.com/service-command-in-linux/) | Starts the specified system service |
| [***service name***](https://linuxsimply.com/service-command-in-linux/)[***stop***](https://linuxsimply.com/service-command-in-linux/) | Stops the specified system service |
| *systemctl start name .service* | Starts the specified systemd service |
| *systemctl stop name .service* | Stops the specified systemd service |
| *chkconfig name on* | Enables the specified service to start automatically at boot time |

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|  | **File and Disk Management** |
| *xfs* | A file system format that supports large file sizes, high scalability and fast performance |
| *gdisk* | Manage GPT partition tables |
| *ssm\_create* | Creates simple storage service volumes on AWS |
| *fdisk* | Manage traditional MBR partition tables |
| *parted* | Manage partition tables including support for GPT and MBR formats |
| *ssm create* | Create and manage SSM volumes on AWS |
| *mkswap* | Format a device or partition as swap space |

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| **System Configuration** |
| *system -config -\** | Configure various system settings |
| *system -confiq -\*-tui* | Open text user interface version of system configuration tool |
| *system -confiq - printer* | Configure printer settings |
| *system -confiq -date* | Configure date and time settings |
| *timedatectl* | View and modify system’s date and time |
| [***date***](https://linuxsimply.com/date-command-in-linux/) | Displays current date and time in thesystem’s default format |
| *ntpdate* | Manually synchronize system’s clock witha specified NTP server |
| *chronyc* | Monitor and manage system’s timesynchronization |
| *system -confiq - keyboard* | Configure keyboard settings |
| *localectl* | Query and configure system’s locale andkeyboard settings |
| [***ssh -keygen***](https://linuxsimply.com/ssh-command-in-linux/) | Generate, manage and convert authentication keys |

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|  | **System Information** |
| *subscription - manager identity* | Display the identity of the currently subscribed system in Red Hat's subscription management system |
| *rhn\_register* | Register with Red Hat network Classic for software updates and support |
| *sosreport* | Collect system diagnostic information for troubleshooting purposes |
| *demidecode* | Display hardware information |
| *lstopo* | Display the topology of the system's hardware, such as CPU cores and caches |
| *lscpu* | Display information about the system's CPU architecture |
| *cat**/proc/cpuinfo* | Display detailed information about the system's CPU |

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|  **File and Disk Management**  |
| *mkfs.filesystem\_type (ext4, xfs)* | Format a device or partition with aspecified file system type, such as ext4 or xfs |
| *xfs\_fsr* | Defragment XFS file systems |
| *ssm mount* | Mount SSM volumes on AWS |
| [***fsck (look for ‘non-***](https://linuxsimply.com/fsck-command-in-linux/)[***contiguous inodes’)***](https://linuxsimply.com/fsck-command-in-linux/) | Check and repair the file system on a device or partition including checking for non-contiguous inodes |
| [***mount***](https://linuxsimply.com/mount-command-in-linux/) | Mount a file system to a specific directory |
| *swapon -a* | Activate all defined swap devices |
| *lvdisplay* | Display information about logical volumes |
| *lvs* | Display a summary of logical volumes |
| *vgdisplay* | Display information about volume groups |
| *vgs* | Display a summary of volume groups |
| *pvdisplay* | Display information about physical volumes |
| *pvs* | Display a summary of physical volumes |
| *ssm create (if backend in lvm)* | Create an SSM volume using Logical Volume Manager as the backend on AWS |
| *pvcreate* | Initialize a physical volume for use with LVM |
| *vgcreate* | Create a new volume group using one or more physical volumes |
| *lvcreate* | Create a new logical volume within a volume group |
| *xfs\_growfs* | Expand an XFS file system after resizing a logical volume or partition |
| *ssm resize* | Resize an SSM volume on AWS |
| *vgextend* | Add one or more physical volumes to an existing volume group |

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|  **Services**  |
| *chkconfig name off* | Disables the specified service from starting automatically at boot time |
| *systemctl enable name.service* | Enables the specified systemd service to start automatically at boot time |
| *systemctl disable name.service* | Disables the specified systemd service from starting automatically at boot time |
| [***service name***](https://linuxsimply.com/service-command-in-linux/)[***status***](https://linuxsimply.com/service-command-in-linux/) | Displays the status of the specified system service |

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|  **Software Management**  |
| *yum install* | Install packages and dependencies from configured repositories |
| *yum group install* | Install a group of related packages from configured repositories |
| *yum info* | Display information about a specific package, including its version, size, and dependencies |
| *yum group info* | Display information about a group of packages and their dependencies |
| *yum update* | Update installed packages to the latest available versions |
| *yum upgrade* | Upgrade all packages on the system to their latest available versions |
| *subscription - manager repos* | Manage subscriptions and repositories |
| *rpm -qf* | Display the package name that owns a specified file |
| *yum provides**filenames -glob* | Display which package provides a specific file or feature |
| *rpm -q packagename* | Display information about a specified package, including its version andarchitecture |
| *yum list installed* | Display a list of all installed packages |
| *yum module install* | Install a specific module stream and its dependencies |
| *yum module info* | Display information about a module, including its streams and profiles |

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| **File and Disk Management** |
| *lvextend* | Expand the size of an existing logical volume |
| *lvreduce* | Shrink the size of an existing logical volume |
| *ssm check* | Check the health status of SSM volumes on AWS |
| *showmount -e* | Display the NFS exports on a given NFS server |
| *systemctl reload nfs.service* | Reload the configuration of the NFS service |
| [***chmod***](https://linuxsimply.com/chmod-command-in-linux/) | Change the permissions of a file or directory |
| [***chown***](https://linuxsimply.com/chown-command-in-linux/) | Change the owner of a file or directory |
| [***chgrp***](https://linuxsimply.com/chgrp-command-in-linux/) | Change tha group ownership of a file or directory |
| *umask* | Set the default file creation permissions |
| *chattr* | Set or remove file attributes such as making a file immutable or undeletable |
| *setfacl* | Modify file access control lists which allow fine-grained control over file permissions and access |

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|  | **Software Management** |
| *yum module remove module\_name:st ream* | Remove a specific module stream and its dependencies |
| *yum module reset module:stream* | Reset a specific module stream and remove all of its profiles |
| *yum module list* | Display a list of all available modules and their streams |
| *rpm --checksig* | Check RPM signature |

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|  | **Archieve Commands** |
| [***tar***](https://linuxsimply.com/tar-command-in-linux/) | Create, extract and manage files in various archive format |
| *cpio* | Create or extract archives in the cpio format |
| [***zip***](https://linuxsimply.com/zip-command-in-linux/) | Compress files and directories into a .zip archive format |
| *xz* | Compress and decompress files using .xz compression format |

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|  | **Network Commands** |
| [***dig***](https://linuxsimply.com/dig-command-in-linux/) | Queries DNS servers to get DNS details |
| *nmcli* | Manage network connections |
| *ip addr show* | Display IP addresses and network information of the system |
| *nmcli con show* | Show the available network connections and their status |
| *address* | Specifies the IP address to assign to a network interface |
| *nmcli con up* | Bring up a network connection |
| *nmcli con mod* | Modify a network connection |

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|  | **Resource Management** |
| *strace* | Traces system calls signals of a running program |
| *ltrace* | Traces library calls of a running program |
| *nice or renice* | Sets and modifies the priority of a running process |
| *taskset* | Assigns a specific processor or a set of processors to a running process |
| [***kill***](https://linuxsimply.com/kill-command-in-linux/) | Terminate a running process |
| *pkill* | Terminate a process or processes by their name or other attribute |
| [***killall***](https://linuxsimply.com/killall-command-in-linux/) | Terminate all processes with a specific name |

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| **Kernel, Boot and Hardware Management** |
| *append 1 or s or rd.break* | Adds kernel boot parameters to modify the default behavior during boot process |
| *init=/bin/bash* | Tells the init process to start a bash shell |
| [***shutdown***](https://linuxsimply.com/shutdown-command-in-linux/) | Stops the system and powers it off |
| *systemctl poweroff* | Shuts down the system and turns off power |
| *poweroff* | Shuts down the system and turns off power |
| *systemctl halt* | Halts the system and leaves it powered on |
| *halt* | Halts the system and leaves it powered on |
| *systemctl reboot* | Reboots the system |
| [***reboot***](https://linuxsimply.com/reboot-command-in-linux/) | Reboots the system |

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|  | **User Management** |
| *system -config -user* | Manage user and group accounts |
| *gnome -control - center* | Manage system settings |
| [***useradd***](https://linuxsimply.com/useradd-command-in-linux/) | Create a new user |
| [***userdel***](https://linuxsimply.com/userdel-command-in-linux/) | Delete a user account |
| [***usermod***](https://linuxsimply.com/usermod-command-in-linux/) | Modify an existing user account |

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|  | **Resource Management** |
| *ss* | Displays network connections statistics and information |
| *tuna* | Tune system performance |
| *pcp atop* | Monitors system resources and performance, including CPU usage, memory usage, and disk I/O |
| [***top***](https://linuxsimply.com/top-command-in-linux/) | Displays real-time information about the processes running on the system |
| *ps* | Displays a snapshot of the processes running on the system, including process IDs, resource usage, and other attributes |
| *sar* | Collects and reports system activity data, including CPU usage, memory usage, disk I/O, and network activity |
| *iostat* | Reports input/output statistics for block devices, including CPU utilization, I/O operations per second |
| [***vmstat***](https://linuxsimply.com/vmstat-command-in-linux/) | Displays virtual memory statistics, including systemwide statistics on CPU usage, memory usage, and disk I/O |
| *mpstat* | Reports processor related statistics, including utilization, idle time, and othermetrics |
| *numastat* | Reports non-uniform memory access allocation statistics for a system |
| *pcp dstat* | Collects system performance data |
| *pmiostat* | Reports input/output statistics for block devices with advanced features |
| [***df***](https://linuxsimply.com/df-command-in-linux/) | Reports disk usage statistics for a file system, including the amount of free and used space |

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|  | **Network Commands** |
| [***hostnamectl set-***](https://linuxsimply.com/hostname-command-in-linux/)[***hostname***](https://linuxsimply.com/hostname-command-in-linux/) | Set the system's hostname |
| [***netstat -rn***](https://linuxsimply.com/netstat-command-in-linux/) | Display the system's routing table |
| *route -n* | Show the routing table of the system |
| *tcpdump -i* | Capture and analyze network traffic |
| [***tcpdump***](https://linuxsimply.com/tcpdump-command-in-linux/) | Capture and analyze network packets |
| [***ping***](https://linuxsimply.com/ping-command-in-linux/) | Test connectivity between two network hosts |
| *telnet* | Connect to a remote host using the Telnet protocol |
| [***nslookup***](https://linuxsimply.com/nslookup-command-in-linux/) | Query DNS servers to get information about domain names and IP addresses |
| [***netstat***](https://linuxsimply.com/netstat-command-in-linux/) | Display network connections and routing tables |

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|  | **User Management** |
| *id* | Display user and group ID information |
| [***groupadd***](https://linuxsimply.com/groupadd-command-in-linux/) | Create a new group |
| *groupdel* | Delete a group |
| [***groupmod***](https://linuxsimply.com/groupmod-command-in-linux/) | Modify an existing group |
| */etc/group* | Stores group information |
| [***passwd***](https://linuxsimply.com/passwd-command-in-linux/) | Change a user’s password |
| *visudo* | Edit /etc/sudoers file |
| [***chage***](https://linuxsimply.com/chage-command-in-linux/) | Manage password expiration and aging policies |
| *w* | Display information about logged-in users |
| *vipw* | Edit /etc/passwd file |

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| **Kernel, Boot and Hardware Management** |
| *systemctl set - default* | Sets the default for the system at the boot time |
| *grub2 -mkconfig* | Regenerate GRUB configuration file |
| *grub -set -default* | Sets the default GRUB entry |
| *lshw* | Displays detailed information about thesystem’s hardware configuration |
| *modprobe* | Add or remove kernel modules from the Linux kernel |
| *udev* | Dynamic device management system for Linux |
| *sysctl -a* | Displays kernel parameters and their values |
| *modprobe -r* | Remove kernel modules from the Linux kernel |
| *rpm -q kernel uname -r* | Display information about the installed kernel version |

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|  | **Security and Identity** |
| *semanage* | Manage SELinux policy modules and configuration |
| *setsebool* | Modify SElinux boolean values |
| *system -config - selinux* | Manage SELinux policy settings |
| *restorecon* | Restore default SELinux security contexts on files and directories |
| *chcon* | Modify SELinux security contexts on files and directories |
| *sealert* | Analyze SELinux audit logs and provide recommendations for policy changes |
| *authconfig* | Configure various system authentication settings, including LDAP and Kerberos |
| *authconfiq -tui* | Launch the text-based user interface version of the authconfig tool |
| *authconfiq -gtk* | Launch the graphical user interface version of the authconfig tool |
| *authselect* | Configure authentication settings for local users and services |
| *getend* | Retrieve system account information, including user and group information |

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