

Common administrative commands in Red Hat Enterprise Linux 5, 6, 7, and 8

System basics			Kernel, boot, and hardware			Basic configuration			File systems, volumes, and disks		
TASK	RHEL		TASK	RHEL		TASK	RHEL		TASK	RHEL	
View subscription information	/etc/sysconfig/rhn/systemid	5 6	Single user/rescue mode	append 1 or s or init=/bin/bash to kernel cmdline	5 6	Graphical configuration tools	system-config-*	5 6	ext3	5	
	subscription-manager identity	5 6 7 8		append 1 or s or rd.break or init=/bin/bash to kernel cmdline	7 8	Text-based configuration tools	system-config-*tui	5 6	Default file system	ext4	6
Configure subscription	rhnreg_ks	6	Shut down system	shutdown	5 6 7 8	Configure printer	system-config-printer	5 6 7	xfs	7 8	
	rhn_register 1,3	5 6 7 8		systemctl poweroff	7 8		gnome-control-center	8	ssm create	7	
	subscription-manager 2	6 7 8		poweroff	5 6 7 8	Configure time and date	system-config-date	5 6	gdisk	7 8	
View system profile	hwbrowser	5		systemctl halt	7 8		timedatectl	7 8	ssm_create	8	
	sosreport dmidecode	5 6 7 8		halt	5 6 7 8		date	5 6 7 8	fdisk	5 6 7 8	
	lstopo lscpu	6 7 8		systemctl reboot	7 8		gnome-control-center	8	parted	5 6 7 8	
	cat/proc/cpuinfo lshw	8		reboot	5 6 7 8	Synchronize time and date	/etc/ntp.conf	5 6	ssm create	7 8	
View RHEL version information	/etc/redhat-release	5 6 7 8		Configure default run level/target	/etc/inittab	5 6	ntpdate	5 6 7	xfs_fsr	6 7 8	
				systemctl set-default	7 8		timedatectl /etc/chrony.conf	7 8	Defragment disk space	copy data to new file system fsck (look for 'non-contiguous inodes')	5 6 7 8
				/boot/grub/grub.conf	5 6		date chronyc	8	ssm mount	7 8	
				/etc/default/grub grub2-mkconfig grub-set-default	7 8		system-config-keyboard	5 6	Mount storage	mount /etc/fstab	5 6 7 8
				hwbrowser	5		localectl	7 8	Mount and activate swap	/etc/fstab swapon -a	5 6 7 8
				lshw (in EPEL)	6 7		gnome-control-center	8	Configure static mounts	/etc/fstab	5 6 7 8
				lshw	8		/etc/ssh/ssh_config /etc/ssh/sshd_config ~/ssh/config ssh-keygen	5 6 7 8	View free disk space	df	5 6 7 8
				Configure kernel module	modprobe	5 6 7 8			lvdisplay		
				Configure hardware device	udev	5 6 7 8			lvs		
				View kernel parameters	sysctl -a cat /proc/cmdline	5 6 7 8			vgdisplay		
				Load kernel module	modprobe	5 6 7 8			pvdisplay		
				Remove kernel module	modprobe -r	5 6 7 8			pvs		
				View kernel version	rpm -q kernel uname -r	5 6 7 8					
Software management			User management			Jobs and services			Resource management		
TASK	RHEL		TASK	RHEL		TASK	RHEL		TASK	RHEL	
Install software	yum groupinstall	5 6	Graphical user management	system-config-users	5 6 7	List all services	chkconfig --list ls /etc/init.d/	5 6	Trace system calls	strace	5 6 7 8
	yum group install	7 8		gnome-control-center	8		systemctl -at service ls /etc/systemd/system/*.service ls /usr/lib/systemd/system/*.service	7	Trace library calls	ltrace	5 6 7 8
	yum install	5 6 7 8	Create user account	useradd	5 6 7		systemctl list-units -at service find /etc/systemd/ /usr/lib/systemd/ /run/systemd/ -name *.service	8	Change process priority	nice renice	5 6 7 8
View software info	yum groupinfo	5 6	Delete user account	userdel	5 6 7		chkconfig name on chkconfig name off	5 6	Change process run location	taskset	5 6 7 8
	yum group info	7 8		gnome-control-center	8		systemctl enable name.service systemctl disable name.service	7 8	Kill a process	kill pkill killall	5 6 7 8
Update software	yum update	5 6 7 8	View/change user account details	usermod /etc/passwd vipw id	5 6 7		service name status	5 6	netstat	5 6	
Upgrade software	yum upgrade	5 6 7 8		gnome-control-center	8		systemctl status name.service	7 8	ss	6 7 8	
Configure software repository	subscription-manager repos /etc/yum.repos.d/*.repo	5 6 7 8	Create user group	groupadd	5 6 7		Check if service is enabled	5 6	tuna	5 6 7 8	
Find package owning file	rpm -qf filename yum provides filename-glob	5 6 7 8	Delete user group	groupdel	5 6 7		chkconfig name --list	5 6	pcp atop	8	
View software version	rpm -q packagename yum list installed packagename rpm -q packagename	5 6 7 8	Change group details	groupmod /etc/group	5 6 7		systemctl is-enabled name	7 8	top ps sar iostat vmstat mpstat numastat	5 6 7 8	
View installed software	rpm -qa yum list installed	5 6 7 8		gnome-control-center	8		Create new service file or modify configuration	5 6	iostat	6 7 8	
Install a module	yum module install module_name	8	Change user password	passwd	5 6 7		chkconfig --add	5 6	pcp-dstat pmiostat	8	
View info on a module	yum module info module_name	8		gnome-control-center	8		systemctl daemon-reload /etc/systemd/system/*.service	7 8	df	5 6 7 8	
View a module's streams	yum module info module_name	8	Change user permissions	usermod visudo	5 6 7		runlevel	5 6			
Change module streams	yum module remove module_name:stream yum module reset module:stream yum module install module:new_stream	8		gnome-control-center	8		systemctl get-default	7 8			
List available modules	yum module list	8	Change password policy	chage	5 6 7		who -r	5 6 7 8			
Networking			Change run level/target	/etc/inittab init run_level	5 6		/etc/init	5 6			
TASK	RHEL			systemctl isolate name.target systemctl set-default	7 8						
Configure name resolution	nmcli con mod	7 8	Configure logging	/etc/syslog.conf /etc/rsyslog.conf /etc/rsyslog.d/*.*conf /var/log/journal systemd-journald.service	5 6 7 8						
	/etc/hosts /etc/resolv.conf	5 6 7 8									
Configure hostname	/etc/sysconfig/network	5 6	View logs	journalctl /var/log	5 6 7 8						
	hostnamectl /etc/hostname nmtui	7 8									
	ifconfig	5 6	Configure system audit	add audit=1 to kernel cmdline auditctl /etc/audit/auditd.conf /etc/audit/audit.rules authconfig /etc/pam.d/system-auth	5 6 7 8						
View network interface info	nmcli dev show teamdctl bridge	7 8									
	ip addr brctl	5 6 7 8	Report on system security	sealert	5 6 7 8						
Configure network interface	nmcli con [add mod edit] nmtui nm-connection-editor	7 8									
	/etc/sysconfig/network-scripts/ifcfg-*	5 6 7 8	Schedule/batch tasks	cron at batch	5 6 7 8						
View routes	ip route	5 6 7 8									
	system-config-network	5 6	Find file by name	locate	5 6 7 8						
Configure routes	nmcli nmcli nmconnection-editor	7 8									
	ip route add /etc/sysconfig/route-iface	5 6 7 8	Find file by characteristic	find	5 6 7 8						
Configure firewall	iptables and ip6tables /etc/sysconfig/iptables	5 6									
	system-config-firewall	6	Create archive	tar cpio zip xz	5 6 7 8						
	firewall-cmd firewall-config	7 8									
	nftables	8									
View ports/sockets	pcp-dstat--socket	8									
	ss lsof netstat	5 6 7 8									