

RED HAT ENTERPRISE LINUX 5, 6, AND 7

Common administrative commands

SYSTEM BASICS		
TASK		RHEL
View subscription information	/etc/sysconfig/rhn/systemid	5
	/etc/sysconfig/rhn/systemid	6
	subscription-manager identity	7
Configure subscription	rhnm_register	5
	rhnm_register	6
	rhnm_register	7
	rhnm_register	7
View system profile	rhnm_report	5
	rhnm_report	6
	rhnm_report	7
	rhnm_report	7
View RHEL version information	/etc/redhat-release	5 6 7

¹ Be aware of potential issues when using subscription-manager on Red Hat Enterprise Linux 5; <https://access.redhat.com/solutions/129003>.

² Subscription-manager is used for Satellite 6, Satellite 5.6 with SAM and newer, and Red Hat's CDN.

³ RHN tools are deprecated on Red Hat Enterprise Linux 7, rhnm_register should be used for Satellite server 5.6 and newer only. For details, see: [Satellite 5.6 unable to register RHEL 7 client system due to rhnm-setup package not included in Minimal Installation \(https://access.redhat.com/solutions/737373\)](https://access.redhat.com/solutions/737373)

BASIC CONFIGURATION		
TASK		RHEL
Graphical configuration tools	system-config-*	5 6
	gnome-control-center	7
Configure network	system-config-network	5 6
	nmcli	7
	nm-tui	7
Configure system language	system-config-language	5 6
	localectl	7
Configure time and date	system-config-date	5 6
	timedatectl	7
Synchronize time and date	ntpdate	5 6
	timedatectl	7
Configure keyboard	system-config-keyboard	5 6
	localectl	7
Text-based configuration tools	system-config-*-tui	5 6 7
Configure printer	system-config-printer	5 6 7
Configure SSH	/etc/ssh/ssh_config	5 6 7

RESOURCE MANAGEMENT		
TASK		RHEL
View system usage	top	5
	ps	6
	sar	7
	iostat	7
View disk usage	df	5
	df	6 7
	iostat	7
	iostat	7
Trace system calls	strace	5 6 7
Trace library calls	ltrace	5 6 7
Change process priority	nice	5 6 7
Change process run location	taskset	5 6 7
Kill a process	kill	5 6 7

USER MANAGEMENT		
TASK		RHEL
Graphical user management	system-config-users	5 6 7
Create user account	useradd	5 6 7
Delete user account	userdel	5 6 7
View/change user account details	usermod	5 6 7
Create user group	groupadd	5 6 7
Delete user group	groupdel	5 6 7
Change group details	groupmod	5 6 7
Change user password	passwd	5 6 7
Change user permissions	usermod	5 6 7
Change group permissions	groupmod	5 6 7
Change password policy	chage	5 6 7
View user sessions	w	5 6 7

JOBS AND SERVICES		
TASK		RHEL
Configure logging	/etc/syslog.conf	5
	/etc/rsyslog.conf	6
	/etc/rsyslog.conf	7
List all services	chkconfig --list	5 6
	systemctl --at service	7
	systemctl --at service	7
List running services	service --status-all	5 6
	systemctl --state=active	7
Start/stop service	service name start	5 6
	systemctl start name.service	7
	systemctl stop name.service	7
Enable/disable service	chkconfig name on	5 6
	chkconfig name off	7
	systemctl enable name.service	7
View service status	service name status	5 6
	systemctl status name.service	7
Check if service is enabled	chkconfig name --list	5 6
	systemctl is-enabled name	7
Create new service file or modify configuration	chkconfig --add	5 6
	systemctl daemon-reload	7
View run level/target	runlevel	5 6
	systemctl get-default	7
Change run level/target	/etc/inittab	5 6
	init run_level	7
	systemctl isolate name.target	7
View logs	/var/log	5 6
	journalctl	7
Configure system audit	add audit=1 to kernel cmdline	5 6 7
	auditctl	7
	auditctl	7
View audit output	aureport /var/log/faillog	5 6 7
	aureport /var/log/faillog	7
Schedule/batch tasks	cron	5 6 7
Find file by name	locate	5 6 7
Find file by characteristic	find	5 6 7
Create archive	tar	5 6 7

NETWORKING		
TASK		RHEL
Configure firewall	iptables and ip6tables	5
	iptables and ip6tables	6
	system-config-firewall	7
Configure name resolution	/etc/hosts	5 6
	/etc/hosts	7
	nmcli con mod	7
Configure hostname	/etc/sysconfig/network	5 6
	hostnamectl	7
View network interface info	ip addr	5 6
	ifconfig	7
	brctl	7
Configure network interface	/etc/sysconfig/network-scripts/ifcfg-*	5 6
	nmcli con [add mod edit]	7
	nmcli con [add mod edit]	7
View ports/sockets	ss	5 6
	lsof	7
Configure routes	ip route add	5 6
	nmcli route add	7
View routes	ip route	5 6 7

SOFTWARE MANAGEMENT		
TASK		RHEL
Install software	yum install	5 6
	yum groupinstall	7
View software info	yum info	5 6
	yum groupinfo	7
Update software	yum update	5 6 7
Upgrade software	yum upgrade	5 6 7
Configure software repository	subscription-manager repos	5 6 7
Find file in package	rpm -qf filename	5 6 7
View software version	rpm -q package	5 6 7
View installed software	yum list installed	5 6 7

KERNEL, BOOT, AND HARDWARE		
TASK		RHEL
Single user/rescue mode	append 1 or s or init=/bin/bash to kernel cmdline	5 6
	append rd.break or init=/bin/bash to kernel cmdline	7
Shut down system	shutdown	5 6
	systemctl shutdown	7
Power off system	poweroff	5 6
	systemctl poweroff	7
Halt system	halt	5 6
	systemctl halt	7
Reboot system	reboot	5 6
	systemctl reboot	7
Configure default run level/target	/etc/inittab	5 6
	systemctl set-default	7
Configure GRUB bootloader	/boot/grub/grub.conf	5 6
	grub2-mkconfig	7
View hardware configured	hwbrowser	5
	lshw (in EPEL)	6 7
Configure kernel module	modprobe	5 6 7
Configure hardware device	udev	5 6 7
View kernel parameters	sysctl -a	5 6 7
Load kernel module	modprobe	5 6 7
Remove kernel module	modprobe -r	5 6 7
View kernel version	rpm -q kernel	5 6 7

FILE SYSTEMS, VOLUMES, AND DISKS		
TASK		RHEL
Default file system	ext3	5
	ext4	6
	xfs	7
Defragment disk space	copy data to new file system	5
	fsck (look for 'non-contiguous inodes')	6 7
Create/modify disk partitions	fdisk	5 6
	gdisk	7
	ssm create	7
Format disk partition	mkfs.filesystem_type (ext4, xfs)	5 6
	mkswap	7
Mount storage	mount	5 6
	fstab	7
Create physical volume	pvccreate	5 6
	pvccreate	7
Create volume group	vgcreate	5 6
	vgcreate	7
Create logical volume	lvcreate	5 6
	lvcreate	7
Enlarge volumes formatted with default file system	vgextend	5 6
	vgextend	7
Shrink volumes formatted with default file system	resize2fs	5 6
	lvreduce	7
Check/repair file system	fsck	5 6
	fsck	7
Configure NFS share	/etc/exports	5 6
	systemctl reload nfs.service	7
Mount and activate swap	/etc/fstab	5 6 7
	swapoff -a	7
Configure static mounts	/etc/fstab	5 6 7
View free disk space	df	5 6 7
View logical volume info	lvdisplay	5 6 7
	vgdisplay	7
View NFS share	showmount -e	5 6 7
	mount	7
Configure on-demand auto-mounts	/etc/auto.master.d/*.autofs	5 6 7
Change file permissions	chmod	5 6 7
	chown	7
Change file attributes	chattr	5 6 7
Change access control list	setfacl	5 6 7

SECURITY AND IDENTITY		
TASK		RHEL
Configure system security	/etc/selinux/config	5 6 7
	restorecon	7
Report on system security	sealert	5 6 7
	sealert	7
LDAP, SSSD, Kerberos	authconfig	5 6 7
	authconfig-gtk	7
Network users	getent	5 6 7