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 subscription-manager identity	6
	subscription-manager identity	7
Configure subscription	rhn_register subscription-manager ¹	5
	rhn_register rhnreg_ks subscription-manager	6
	subscription-manager ² rhn_register ³	7
View system profile	sosreport dmidecode hwbrowser	5
	sosreport dmidecode lstopo lscpu	67
View RHEL version information	/etc/redhat-release	567

- 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. rhn_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 rhn-setup package not included in Minimal installation (https://access.redhat.com/solutions/737373)

BASIC CONFIGURATION		
TASK		RHEL
Graphical configuration tools	system-config-*	56
Orapincal configuration tools	gnome-control-center	7
	system-config-network	5 6
Configure network	nmcli nmtui nm-connection-editor	7
Configuration language	system-config-language	56
Configure system language	localectl	7
0 " " 111	system-config-date date	56
Configure time and date	timedatectl date	7
	ntpdate /etc/ntp.conf	56
Synchronize time and date	timedatectl /etc/chrony.conf ntpdate	7
Configure keyboard	system-config-keyboard	56
Configure keyboard	localectl	7
Text-based configuration tools	system-config-*-tui	567
Configure printer	system-config-printer	567
Configure SSH	/etc/ssh/ssh_config /etc/ssh/sshd_config ~/.ssh/config ssh-keygen	567

RESOURCE MANAGEMENT		
TASK		RHEL
	top ps sar iostat netstat vmstat mpstat numastat	6
View system usage	top ps sar iostat netstat ss vmstat mpstat numastat tuna	6
	top ps sar iostat ss vmstat mpstat numastat tuna	7
View disk usage	df df	67
	iostat	
Trace system calls	strace	567
Trace library calls	ltrace	567
Change process priority	nice renice	567
Change process run location	taskset	567
Kill a process	kill pkill killall	567

SOFTWARE MANAGEMENT		
TASK		RHEL
Install software	yum install yum groupinstall	56
	yum install yum group install	7
View software info	yum info yum groupinfo	5 6
	yum info yum group info	7
Update software	yum update	567
Upgrade software	yum upgrade	567
Configure software repository	subscription-manager repos /etc/yum.repos.d/*.repo	567
Find file in package	rpm -qf filename yum provides filename-glob	567
View software version	rpm -q <i>packagename</i>	567
View installed software	rpm -qa yum list installed	567

USER MANAGEMENT		
TASK		RHEL
Graphical user management	system-config-users	567
Create user account	useradd	567
Delete user account	userdel	567
View/change user account details	usermod /etc/passwd vipw id	567
Create user group	groupadd	567
Delete user group	groupdel	567
Change group details	groupmod /etc/group	567
Change user password	passwd	567
Change user permissions	usermod visudo	567
Change group permissions	groupmod visudo	567
Change password policy	chage	567
View user sessions	W	567

NETWORK	ING	
TASK		RHEL
	iptables and ip6tables /etc/sysconfig/ip*tables	5
Configure firewall	iptables and ip6tables /etc/sysconfig/ip*tables system-config-firewall	6
	firewall-cmd firewall-config	7
Configure	/etc/hosts /etc/resolv.conf	56
name resolution	/etc/hosts /etc/resolv.conf nmcli con mod	7
0 "	/etc/sysconfig/network	56
Configure hostname	hostnamectl /etc/hostname nmtui	7
	ip addr ifconfig brctl	56
View network interface info	ip addr nmcli dev show teamdctl brctl bridge	7
	/etc/sysconfig/network-scripts/ifcfg-*	56
Configure network interface	/etc/sysconfig/network-scripts/ifcfg-* nmcli con [add mod edit] nmtui nm-connection-editor	7
View ports/	ss lsof netstat	56
sockets	ss lsof	7
	ip route add system-config-network /etc/sysconfig/route- <i>iface</i>	56
Configure routes	ip route add nmcli nmtui nm-connection-editor /etc/sysconfig/route- <i>iface</i>	7
View routes	ip route	567

SECURITY AND IDENTITY		
TASK		RHEL
Configure system security	/etc/selinux/config chcon restorecon semanage setsebool system-config-selinux	567
Report on system security	sealert	567
LDAP, SSSD, Kerberos	authconfig authconfig-tui authconfig-gtk	567
Network users	getent	567

JOBS AND SERVICES		Louri
TASK		RHEL
	/etc/syslog.conf	5
Configuration of the second	/etc/rsyslog.conf	6
Configure logging	<pre>/etc/rsyslog.conf /etc/rsyslog.d/*.conf /var/log/journal systemd-journald.service</pre>	7
	chkconfiglist ls /etc/init.d/	5 6
List all services	systemctl -at service ls /etc/systemd/system/*.service ls /usr/lib/systemd/system/*.service	7
List running services	servicestatus-all	56
List ruilling services	systemctl -t servicestate=active	7
Start otan carvica	service <i>name</i> start service <i>name</i> stop	5 6
Start/stop service	systemctl start <i>name</i> .service systemctl stop <i>name</i> .service	7
Enable/disable service	chkconfig <i>name</i> on chkconfig <i>name</i> off	56
Litable, disable set vice	systemctl enable <i>name</i> .service systemctl disable <i>name</i> .service	0
View service status	service <i>name</i> status	56
view sei vice status	systemctl status <i>name</i> .service	7
Check if service is enabled	chkconfig <i>name</i> list	56
- Check in Service is chasted	systemctl is-enabled <i>name</i>	7
Create new service file or modify configuration	chkconfigadd	56
	systemctl daemon-reload /etc/systemd/system/*.service	7
View run level/target	runlevel who -r	56
	systemctl get-default who -r	7
Change win lovel/barget	/etc/inittab init run_level	56
Change run level/target	systemctl isolate <i>name</i> .target systemctl set-default	7
	/var/log	56
View logs	/var/log journalctl	7
Configure system audit	add audit=1 to kernel cmdline auditctl /etc/audit/auditd.conf /etc/audit/audit.rules authconfig /etc/pam.d/system-auth pam_tty_audit kernel module	5 6 7
View audit output	aureport /var/log/faillog	567
Schedule/batch tasks	cron at batch	567
Find file by name	locate	567
Find file by characteristic	find	567
	tar	
Create archive	cpio zip	567

FILE SYSTEMS, VOLUMES, AND DISKS		
TASK		RHEL
Default file system	ext3 ext4 xfs	6
D. for any order that are a	copy data to new file system fsck (look for 'non-contiguous inodes')	5
Defragment disk space	copy data to new file system fsck (look for 'non-contiguous inodes') xfs_fsr	67
	fdisk parted	56
Create/modify disk partitions	fdisk gdisk parted ssm create	7
	mkfs.filesystem_type (ext4, xfs) mkswap	56
Format disk partition	mkfs.filesystem_type (ext4, xfs) mkswap ssm create	7
	mount /etc/fstab	56
Mount storage	mount /etc/fstab ssm mount	7
Create physical volume	pvcreate	56
	pvcreate ssm create (if backend is lvm)	7
	vgcreate	56
Create volume group	vgcreate ssm create (if backend is lvm)	7
Create logical volume	lvcreate	56
Create logical volume	lvcreate ssm create (if backend is lvm)	7
Enlarge volumes formatted with	vgextend lvextend resize2fs	56
default file system	vgextend lvextend xfs_growfs ssm resize	7
Shrink volumes formatted with	resize2fs lvreduce vgreduce	56
default file system	XFS cannot currently be shrunk; copy desired data to a smaller file system.	7
	fsck	56
Check/repair file system	fsck ssm check	7
Configure NFS share	/etc/exports service nfs reload	56
	/etc/exports systemctl reload nfs.service	7
Mount and activate swap	/etc/fstab swapon -a	567
Configure static mounts	/etc/fstab	567

FILE SYSTEMS, VOLUMES, AND DISKS (CONT.)		
TASK		RHEL
View free disk space	df	567
View logical volume info	lvdisplay lvs vgdisplay vgs pvdisplay pvs	567
View NFS share	showmount -e mount	567
Configure on-demand auto-mounts	/etc/auto.master.d/*.autofs /etc/auto.*	567
Change file permissions	chmod chown chgrp umask (future file creation)	567
Change file attributes	chattr	567
Change access control list	setfacl	567

KERNEL, BOOT, AND HARDWARE		
TASK		RHEL
Single user/rescue mode	append 1 or s or init=/bin/bash to kernel cmdline	56
Single user/rescue mode	append rd.break or init=/bin/bash to kernel cmdline	7
	shutdown	56
Shut down system	shutdown systemctl shutdown	7
	poweroff	56
Power off system	poweroff systemctl poweroff	7
	halt	56
Halt system	halt systemctl halt	7
	reboot	56
Reboot system	reboot systemctl reboot	7
Confirmed default man local themselve	/etc/inittab	56
Configure default run level/target	systemctl set-default	7
	/boot/grub/grub.conf	56
Configure GRUB bootloader	/etc/default/grub grub2-mkconfig grub-set-default	0
V:	hwbrowser	5
View hardware configured	lshw (in EPEL)	67
Configure kernel module	modprobe	567
Configure hardware device	udev	567
View kernel parameters	sysctl -a cat /proc/cmdline	567
Load kernel module	modprobe	567
Remove kernel module	modprobe -r	567
View kernel version	rpm -q kernel uname -r	567

