## RED HAT ENTERPRISE LINUX 5, 6, AND 7

## Common administrative commands

	TASK	RHEL5	RHEL6	RHEL7
)	View subscription information	/etc/sysconfig/rhn/systemid	/etc/sysconfig/rhn/systemid subscription-manager identity	subscription-manager identity
	Configure subscription	rhn_register	rhn_register rhnreg_ks subscription-manager	subscription-manager <sup>1</sup> rhn_register <sup>2</sup>
	View system profile	sosreport dmidecode hwbrowser	sosreport dmidecode lshw	
)	View RHEL version information	/etc/redhat-release		

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

2 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

	TASK	RHEL5	RHEL6	RHEL7	
	Graphical configuration tools	system-	-config-*	gnome-control-center	
	Configure network	system-config-network		nmcli nmtui nm-connection-editor	
N O	Configure system language	system-con	system-config-language		
CONFIGURATION	Configure time and date	system-config-date		timedatectl date	
Inol.	Synchronize time and date	ntpdate /etc/ntp.conf		timedatectl /etc/chrony.conf	
N C	Configure keyboard	system-config-keyboard		localectl	
	Text-based configuration tools	system-config-*-tui			
SIC	Configure printer	system-config-printer			
BA	Configure samba	smbclient /etc/samba/smb.conf smbpasswd			
	Configure SSH	/etc/ssh/ssh_config /etc/ssh/sshd_config ~/.ssh/config ssh-keygen			

	TASK	RHEL5	RHEL6	RHEL7
	Configure logging	/etc/syslog.conf	/etc/rsyslog.conf	/etc/rsyslog.conf /etc/rsyslog.d/*.conf /var/log/journal systemd-journald.service
	List all services	18 /810/1011 0/		<pre>systemctl -at service ls /etc/systemd/system/*.service ls /usr/lib/systemd/system/*.service</pre>
	List running services	servicestatus-all		systemctl -t servicestate=active
	Start/stop service	service <i>name</i> start service <i>name</i> stop		systemctl start <i>name</i> .service systemctl stop <i>name</i> .service
	Enable/disable service	chkconfig <i>name</i> on chkconfig <i>name</i> off		systemctl enable <i>name</i> .service systemctl disable <i>name</i> .service
	View service status	service na	ame status	systemctl status <i>name</i> .service
	Check if service is enabled	chkconf	chkconfig <i>name</i>	
D D	Create new service file or modify configuration	chkconfigadd		systemctl daemon-reload
A ト ト	View run level/target	runlevel who -r		systemctl get-default who -r
ח	Change run level/target	/etc/inittab init run_level		systemctl isolate <i>name</i> .target systemctl set-default
2 X X	View logs	/var/log		/var/log journalctl
	Configure system audit	add <b>audit=1</b> to kernel cmdline auditctl /etc/audit/auditd.conf /etc/audit/audit.rules authconfig /etc/pam.d/system-auth pam_tty_audit kernel module		
	View audit output	aureport /var/log/faillog		
	Schedule tasks	cron at		
	Configure batch tasks	batch		
	Find file by name	locate		
	Find file by characteristic	find		
	Create archive	tar cpio zip gzip bzip2		

HAKUWAKE	Single user/rescue mode	append 1 or s or init=/bin/bash to kernel cmdline		append rd.break or init=/bin/bash to kernel cmdline		
	Shut down system	shutdown		systemctl shutdown		
	Power off system	poweroff		systemctl poweroff		
	Halt system	halt		systemctl halt		
ב ב	Reboot system	reboot		systemctl reboot		
֡֞֞֞֝֟֝֟֝֟֝֟	Configure default run level/target	/etc/inittab		systemctl set-default		
AND	Configure GRUB bootloader	/boot/grub/grub.conf		/etc/default/grub grub2-mkconfig grub-set-default		
-	View hardware configured	hwbrowser	hw			
ב ב ב	Configure kernel module	modprobe				
į	Configure hardware device	udev				
NERINEL,	View kernel parameters	sysctl -a cat /proc/cmdline				
<b>4</b>	Load kernel module	modprobe				
	Remove kernel module					
	View kernel version					

	TASK	RHEL5	RHEL6	RHEL7		
	Install software	yum install yum groupinstall		yum install yum group install		
Ļ	View software info	yum info yum groupinfo		yum info yum group info		
4E	Update software	yum update				
GEN	Upgrade software	yum upgrade				
ANAGEMEN	Configure software repository	/etc/yum.repos.d/*.repo				
<b>Μ</b>	Find file in package	rpm -qf filename				
	View software version	rpm -q packagename				
	View installed software		rpm -qa			

	TASK	RHEL5	RHEL6	RHEL7
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	security semanage		chcon restorecon semanage setsebool	
SECURITY AND IDENTI	Report on system security		sealert	
	LDAP, SSSD, Kerberos		authconfig authconfig-tui authconfig-gtk	
	Network users		getent	

	TASK	RHEL5	RHEL6	RHEL7
	Graphical user management	syst	em-config-us	ers
	Create user account		useradd	
	Delete user account		userdel	
	Change user account details		usermod	
USER MANAGEMENT	View user account details	,	usermod /etc/passwd	
	Create user group		groupadd	
	Delete user group		groupdel	
	Change group details		groupmod	
	Change user password	pas	sswd usernaı	me
	Change user permissions	/	usermod etc/sudoers	;
	Change group permissions	/	groupmod etc/sudoers	;
	Change password policy		chage	
	Encrypted password location	,	/etc/shadow	
	View/end user sessions		W	

	TASK	RHEL5	RHEL6	RHEL7
	Default file system	ext3	ext4	xfs
	Defragment disk space	copy data to new file system fsck (look for 'non-contiguous inodes')	copy data to r fsck (look for 'non- xfs_	-contiguous inodes′)
	Create/modify disk partitions	fdis parte		fdisk gdisk parted ssm create
	Format disk partition	mkfs.filesystem_ty mkswa		mkfs.filesystem_type (ext4, xfs) mkswap ssm create
	Mount storage	mount /etc/fstab		mount /etc/fstab ssm mount
	Create physical volume	pvcrea	pvcreate	
S)	Create volume group	vgcreate		vgcreate ssm create (if backend is lvm)
DISKS	Create logical volume	lvcreate		lvcreate ssm create (if backend is lvm)
S, AND	Enlarge volumes formatted with default file system	vgextend lvextend resize2fs		vgextend lvextend xfs_growfs ssm resize
VOLUME	Shrink volumes formatted with default file system	resize2fs lvreduce vgreduce		XFS cannot currently be shrunk; copy desired data to a smaller file system.
	Check/repair file system	fsck		fsck ssm check
SYSTEMS,	Configure NFS share	/etc/exports service nfs reload		/etc/exports systemctl reload nfs.service
	Mount and activate swap	/etc/fstab swapon -a		
빁	Automatically mount at boot	/etc/fstab		
	View free disk space	df		
	View logical volume info	lvdisplay lvs vgdisplay vgs pvdisplay pvs		
	View NFS share			
	Automatically mount after boot	/etc/auto.master.d/*.autofs /etc/auto.*		
	Change file permissions	chmod chown chgrp umask		
	Change access control list		setfacl	

	TASK	RHEL5	RHEL6	RHEL7	
	Configure firewall	iptables and ip6tables /etc/sysconfig/ip*tables	iptables and ip6tables /etc/sysconfig/ip*tables system-config-firewall	firewall-cmd firewall-config	
	Configure DHCP client	/etc/dhcpd.conf /etc/dhcp6c.conf	/etc/dhcp/	cpd /dhcpd.conf onfig/dhcpd	
	Configure name resolution	/etc/hosts /etc/resolv.conf		/etc/hosts /etc/resolv.conf nmcli con mod	
S N	Configure hostname	/etc/sysconfig/network		hostnamectl /etc/hostname nmtui	
ETWORK	View network interface info  Configure network interface View ports/sockets	ip addr ifconfig brctl		ip addr nmcli dev show teamdctl brctl bridge	
Z		/etc/sysconfig/network-scripts/ifcfg-*		/etc/sysconfig/network-scripts/ifcfg-* nmcli con [add mod edit] nmtui nm-connection-editor	
		ss lsof netstat		ss lsof	
	View routes		ip route		
Configure routes		/etc/sysconfig/network system-config-network			

	TASK	RHEL5	RHEL6	RHEL7		
RESOURCE MANAGEMENT	View system usage	top ps sar iostat netstat vmstat mpstat numastat	top ps sar iostat netstat ss vmstat mpstat numastat tuna	top ps sar iostat ss vmstat mpstat numastat tuna		
A N	View disk usage	df iostat				
Σ	Trace system calls	strace				
RCE	Trace library calls	ltrace				
sou	Change process priority	nice renice				
<b>8</b>	Change process run location	taskset				
	Kill a process		kill pkill killall			

