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

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Lists common administrative commands for Red Hat Enterprise Linux 5, 6 and 7. Printable poster also available.

System basics

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 subscription-manager ¹	rhn_register rhnreg_ks subscription-manager	subscription-manager ² rhn_register ³
View RHEL version information	/etc/redhat-release		
View system profile	sosreport dmidecode hwbrowser	sosreport dmidecode Istopo Iscpu	

Basic configuration

Task	RHEL5	RHEL6	RHEL7
Graphical configuration tools	system-config-*		gnome-control-center
Text-based configuration tools	system-config-*-tui		
Configure printer	system-config-printer		
Configure network	system-config-network		nmcli nmtui nm-connection-editor
Configure system language	system-config-language		localectl
Configure time and date	system-config-date date		timedatectl date
Synchronize time and date	ntpdate /etc/ntp.conf		timedatectl /etc/chrony.conf ntpdate
Configure keyboard	system-config-keyboard		localectl
Configure SSH	/etc/ssh/ssh_config /etc/ssh/sshd_config ~/.ssh/config ssh-keyge	n	

Jobs and services

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List all services	chkconfiglist Is /etc/init.d/		systemctl -at service Is /etc/systemd/system/*.service Is /usr/lib/systemd/system/*.service			
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 <i>name</i> status		systemctl status <i>name</i> .service			
Check if service is enabled	chkconfig <i>name</i> list		systemctl is-enabled <i>name</i>			
Create new service file or modify configuration	chkconfigadd		systemctl daemon-reload /etc/systemd/system/*.service			
View run level/target	runlevel who -r		systemctl get-default who -r			
Change run level/target	/etc/inittab init <i>run_level</i>		systemctl isolate <i>name</i> .target systemctl set-default			
Configure logging	/etc/syslog.conf /etc/rsyslog.conf		/etc/rsyslog.conf /etc/rsyslog.d/*.conf /var/log/journal systemd-journald.service			
View logs	/var/log		/var/log journalctl			
Configure system audit	add audit=1 to kernel cm auditctl /etc/audit/auditd.conf /etc/audit/audit.rules authconfig /etc/pam.d/system-auth pam_tty_audit kernel m	1				
View audit output	aureport /var/log/faillo	9				
Schedule/batch tasks	cron at batch					
Find file by name	locate					
Find file by characteristic	find					
Create archive	tar cpio zip					

Kernel, boot, and hardware

Task	RHEL5	RHEL6	RHEL7
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		

Power off system	poweroff		poweroff systemctl poweroff
Halt system	halt		halt systemcti halt
Reboot system	reboot		reboot systemctl reboot
Configure default run level/target	/etc/inittab		systemctl set-default
Configure GRUB bootloader	/boot/grub/grub.conf		/etc/default/grub grub2-mkconfig grub-set-default
Configure kernel module	modprobe		
View hardware configured	hwbrowser Ishw (in EPEL)		
Configure hardware device	udev		
View kernel parameters	sysctl -a cat /proc/cmdline		
Load kernel module	modprobe		
Remove kernel module	modprobe -r		
View kernel version	rpm -q kernel uname -r		

Software management

Task	RHEL5	RHEL6	RHEL7
Install software	yum install yum groupinstall		yum install yum group install
View software info	yum info yum groupinfo		yum info yum group info
Update software	yum update		
Upgrade software	yum upgrade		
Configure software repository	subscription-manager repos /etc/yum.repos.d/*.repo		
Find package owning file	rpm -qf filename yum provides filename-glob		
View software version	rpm -q packagename		
View installed software	rpm -qa yum list installed		

User management

Task	RHEL5	RHEL6	RHEL7
Graphical user management	system-config-users		
Create user account	useradd		

Delete user account	userdel
View/change user account details	usermod /etc/passwd vipw id
Create user group	groupadd
Delete user group	groupdel
Change group details	groupmod /etc/group
Change user password	passwd
Change user permissions	usermod visudo
Change group permissions	groupmod visudo
Change password policy	chage
View user sessions	w

File systems, volumes, and disks

Task	RHEL5	RHEL6	RHEL7	
Default file system	ext3 ext4		xfs	
Create/modify disk partitions	fdisk parted		fdisk gdisk parted ssm create	
Format disk partition	mkfs.filesystem_type (ext4, xfs) mkswap		mkfs.filesystem_type (ext4, xfs) mkswap ssm create	
Defragment disk space			lata to new file system ook for 'non-contiguous inodes')	
Mount storage	mount /etc/fstab		mount /etc/fstab ssm mount	
Mount and activate swap	/etc/fstab swapon -a			
Configure static mounts	/etc/fstab			
View free disk space	df			
View logical volume info	lvdisplay lvs vgdisplay vgs pvdisplay pvs			

Create physical volume	pvcreate	pvcreate ssm create (if backend is Ivm)
Create volume group	vgcreate	vgcreate ssm create (if backend is lvm)
Create logical volume	lvcreate	lvcreate ssm create (if backend is lvm)
Enlarge volumes formatted with default file system	vgextend Ivextend resize2fs	vgextend Ivextend xfs_growfs ssm resize
Shrink volumes formatted with default file system	resize2fs Ivreduce vgreduce	XFS cannot currently be shrunk; copy desired data to a smaller file system.
Check/repair file system	fsck	fsck ssm check
View NFS share	showmount -e mount	
Configure NFS share	/etc/exports service nfs reload	/etc/exports systemctl reload nfs.service
Configure on-demand auto-mounts	/etc/auto.master.d/*.autofs /etc/auto.*	
Change file permissions	chmod chown chgrp umask (future file creation)	
Change file attributes	chattr	
Change access control list	setfacl	

Networking

Task	RHEL5	RHEL6	RHEL7
Configure name resolution	/etc/hosts /etc/resolv.conf		/etc/hosts /etc/resolv.conf nmcli con mod
Configure hostname	/etc/sysconfig/network		hostnamectl /etc/hostname nmtui
View network interface info	ip addr ifconfig brctl		ip addr nmcli dev show teamdctl brctl bridge
Configure network interface	/etc/sysconfig/network-scripts/ifcfg-*		/etc/sysconfig/network-scripts/ifcfg-* nmcli con [add mod edit] nmtui nm-connection-editor
View routes	ip route		

Configure routes	ip route add system-config-network /etc/sysconfig/route- <i>iface</i>		ip route add nmcli nmtui nm-connection-editor /etc/sysconfig/route-iface	
Configure firewall	iptables and ip6tables /etc/sysconfig/ip*tables	iptables and ip6tables /etc/sysconfig/ip*tables system-config-firewall	firewall-cmd firewall-config	
View ports/sockets	ss Isof netstat		ss Isof	

Security and identity

Task	RHEL5	RHEL6	RHEL7
Configure system security	/etc/selinux/config chcon restorecon semanage setsebool system-config-selinux		
Report on system security	sealert		
LDAP, SSSD, Kerberos	authconfig authconfig-tui authconfig-gtk		
Network users	getent		

Resource management

Task	RHEL5	RHEL6	RHEL7	
Trace system calls	strace			
Trace library calls	Itrace			
Change process priority	nice renice			
Change process run location	taskset			
Kill a process	kill pkill killall			
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	

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View disk usage		df	df iostat	٩
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