## Cheatography

## Red Hat Cheat Sheet

by nextnely via cheatography.com/71363/cs/18089/

Services	
systemctl list-unit- files -at service	Lists enabled/disabled service unit files.
systemctl list-units - at service	Lists enabled/disabled running services.
systemctl list-units -t servicestate running	Shows active running services.
-t	Shows enabled service unit files.
-a	Shows both enabled and disabled service unit files.
systemctl mask [service name]	Prevents service from starting.

Cron	
/var/spool/cron/[user]	User cron jobs.
/etc/cron.d	System cron jobs.
[minute 0-59] [hour] [day of the month] [month of the year] [day of the week] [path of script]	Cron job time format.
crontab-generator.org	Crontab generator.
0 1*	Runs job everyday at 1 a.m.
0 1* [user]	Format for system wide cron jobs.
/etc/at.allow	Allow access to the AT services.
/etc/cron.allow	Allow access to cron services.

,	3 1 7	
Cron (cont)		
/etc/cron.deny		
An empty allow	of file means nobody is denied. of file means nobody is allowed. sing nobody is allowed. as access.	
RPM		
rpm -qa	Queries all installed packages.	
rpm -qa   sort		
rpm -qi [package]	Shows information about the package.	
rpm -qa Group	="System Environment/Shells"	
rpmqa -last	Shows packages install sorted by date	
rpm -ql yum	Queries for list of file paths.	
rpm -qc yum		
rpm -qf [path to file]	Query file.	
rpm -qdf [path to file]	Shows all documentation for specified command/file.	
rpm -qprovid	е	
rpm -qrequires [file]		
rpm -q changelog [file]	Shows changes to package.	
SELinux		
	Security policy is enforced.	

Security policy is observed and warnings are printed but policy is

not enforced.

SELinux (cont)		
Disabled	Mandatory access control turned off.	
sestatus	Shows SELinux status.	
set setenforce <mode></mode>	Temporarily changes SELinux mode.	
vi /selinux/config	SELinux config file.	
Networking		
nmtui graphi	ical network editor	
Logs		
less -N /etc/rsyslog.conf	View rsyslog configuration file with line numbering turned on.	
cat /var/log/message s	Lists messages log.	
grep -v 'systemd:' /var/log/message s	Lists everything that does not include systemd.	
tail -f /var/log/message s	Follows log file.	
/var/log/secure	Private authentication messages (logins)	
/etc/cron.daily	Logrotate cron job.	
/etc/logrotate.con	Logrotate configuration file.	
logger "message"	Writes message to messages log file.	
yum		
yumshowduplica	ates -list Shows versions of	



/etc/at.deny

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mode Permissive

mode

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a package.

installed.

Lists all packages

[pacakge name]

yum list installed



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yum (cont)		
Bold	Update available in repository.	
Bold and underline	Current kernel	
Red	Package doesn't exist in repository.	
Yellow	Newer package then in repository.	
yum list updates	Lists updates for packages installed.	
yum list available		
yum info [package name]	Shows package info.	
yum deplist [package name]	Shows dependencies for package.	
yum search [package name]	Searches for package name.	
yum reinstall [package name]	Reinstalled package.	
yum reinstallskip-broken [package name]		
yum remove [package name]	Removes package.	
yum autoremove [package name]	Removes packages including dependencies.	
yum package- cleanup	Shows unused packages.	
yum install yum-utils	,	
yum check-update	Checks for updates.	
yum list obsoletes		
yum install yum-plug	gin-versionlock	
yum versionlock [package name]	Prevents package from updating.	
yum versionlock	Lists version locked packages.	

yum (cont)	
yum versionlock delete [output from yum versionlock]	Removes version lock from package.
yum update security	Only updates security packages.
yum update-minimalsecurity	Install strictly security updates. Doesn't include bug fixes.
yum install yum- plugin changelog	View package change logs.
yum changelog updates	Gets all change logs for packages with updates.
yum changelog [package name]	View change log for specific package.
yum list installed kernel-*	Lists currently installed kernel.
Is -I /boot	Kernel directory.
uname -r	Shows running kernel.
yum list available kernel	Lists available kernel.
yum -y update kernel	Updates kernel.
yum remove kernel	
grub2-set-default [kernel number]	Changes kernel.
ls /lib/modules/\$(uname -r)/kernel	Lists kernel module directory.
Ismod	Lists modules.

Time		
timedatectl		Lists local time for current timezone.
timedatectl list- timezones   grep America		Filters timezones via grep.
timedatectl set- timezone [timezone	;]	Sets timezone.
timedatectl set-time 24:00:00	)	Manually sets time.
timedatectl set-time	;	Manually sets date.
timedatectl set-ntp	true	Enables NTP.
systemctl restart systemd-timedated		Restarts NTP service.
yum install ntp		Installs NTP client.
/etc/ntp.conf		NTP config file.
ntpdate -q <server address=""></server>		Checks NTP server address.
ntpdate <server address=""></server>		Sets NTP server.
systemctl enable ntpdate		Enables NTP synchronization.
Journal		
journalctl	Lists a	all journal entries.
journalctl /sbin/crond	Speci	fies journal.
journalctl -f	Tails journal.	
mkdir /var/log/journal	Directory for persistent journals.	



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File Acce	ss Control	
ls -l [file name]	Lists group owners.	The user-owner is the third column from the left. THe group-owner is the fourth column.
Read (r)	4	
Write (w)	2	
Execute (x)	1	
-rw-rw-	userowner-groupowner-other	
chmod u=rwx,g =rx,o= <file></file>	Symbolic permission format.	
chmod u+rwx <file></file>	Adds permissions format.	
chmod o-x <file></file>	Remove permissions format.	
chmod a-x <file></file>	Removes execute from all positions.	
-R	Recursively adds permissions.	
umask	View umask.	
umask - S	View uma	sk in symbolic notation.
775	Default directory permissi ons.	rwxrwxrwx
755	rwx-r-xr-x	

File Access	Control (co	ont)
664	Default file permissi ons. (umask 002)	rw-rw-r
umask 022	Changes u	ımask.
umask 002	rw-rw-r	Directories- rwx- r-xr-x, Files- rwxrr
vi ~/bashrc	User umask startup file	add new umask to end of file.
vi /etc/profile.d /unmash.sh	System wide unmask.	if [ "\$UID" -ge 1000] ;then
getfacl <file></file>	lists ACLs on file.	-t
setfacl -m user: <user>:<pe rmissions=""> aclfile</pe></user>	Sets ACLs on file.	setfacl -m user:root:rwx /home/file.txt
setfacl -m gro	oup: <group></group>	: <permission> <file></file></permission>
setfacl -x group:root <file dir=""></file>		-x remove specific ACL, -k removes all default ACLs, -b removes all ACLs



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