## **LINUX COMMANDS CHEAT SHEET**

by Gokhan Kosem, www.ipcisco.com

System Infor	mation Commands	
uname -a	shows Linux system info	
uname -r	shows kernel release info	
cat /etc/redhat-release	shows installed redhat version	
uptime	displays system running/life time	
hostname	shows system host name	
hostname -I	shows ip addresses of the host	
last reboot	displays system reboot history	
date	displays current date and time	
cal	displays monthly calendar	
mount	shows mounted filesy-stems	
File (	Commands	
ls -l	shows file type and access	
ls -a	lists also hidden files	
ls -al	lists files and directories detailly	
pwd	shows present directory	1
mkdir directory	creates a directory	, I
rm xyz	deletes file xyz	(0
rm -r /xyz	deletes directory /xyz and its	
rm -f abc	contents recursively forcefully deletes abc file without confirmation	
rm -rf /xyz	forcefully deletes directory /xyz recursively	
cp aaa bbb	copies aaa file to bbb file	
ср -г /ххх /ууу	copies /xxx directiry to /yyy directory	
mv aaa bbb	renames or moves file aaa to file	
touch abc	creates an empty file named abc	
cat abc	used to view file abc	
less abc	browse through a text file abc	
head abc	displays first 10 lines of file abc	
tail abc	displays last 10 lines of file abc	
tail -f abc	displays last 10 lines of file abc and	
tail -F abc	follow it as it grows outputs last lines of abc as it changes	
file abc	gets type of abc	
gpg -c abc	encrypts file abc	
gpg abc	decrypts file abc	
gpg abc	decrypts file abc	
gpg abc	decrypts file abc	
dir	shows files in the current directory	
put abc	uploads file 'abc' from local to	
get file	remote device downloads file 'abc' from remote to	
act inc	local device	

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User Information	tion Commands
id	shows user&group ids of the current user
last	shows the last users logged on
whoami	shows who you are logged in as
who	shows who is logged into the system
w	shows who is logged in and what they do
groupadd test	creates group "test"
useradd -c "GK" -m Gokhan	creates "Gokhan" account with comment "GK"
userdel Gokhan	deletes account "Gokhan"
usermod -aG Networkers	adds account "Gokhan" to the
Gokhan	"Networkers" aroup
File Pe	rmission
chown user	changes ownership of a file/directory
chown user:group filename	changes user and group for a file or directory
	r (read) permission, 4
File Permissions	w (write) permission, 2
sco.com	x (execute) permission, 1
ute To Your Dreams	-= no permission
File Owner	owner/group/everyone
	777   Owner, Group, Everyone has rwx permissions
	744   Owner has rwx permission,
File Permissions Examples	Group, Everyone has r permission 755   Owner has rwx permission,
	Group, Everyone has rx permissions 776   Owner, Group has rwx
	permission, Everyone has rw
Search C	Commands
grep x file	searches for x in file
grep -i	case insens-itive search
grep -r	recursive search
grep -v	inverted search
grep -o	shows only matched part of the file
find /dir/ -name aaa*	finds files starting with aaa in dir
find /dir/ -user Gokhan	finds files owned by Gokhan in dir
find /dir/ -mmin 10	finds files modifed less than 10 minutes ago in dir
find /home -size +500M	finds files larger than 500MB in /xyz
find [/folder/location] -name [x]	finds file names starting with character x
whereis aaa	locates the binary, source, and manual page of aga
locate abc	finds the location of abc quickly
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ls (	Options
-a	shows all (including hidden)
-R	recursive list
-r	reverse order
-t	sort by last modified
-s	sort by file size
-1	long listing format
-1	one file per line
-m	commasep-arated output
-Q	quoted output
Process Manag	gement Commands
ps	displays currently running processes
ps PID	gives the status of a particular process
pidof	gives the process ID of a process
ps -ef	displays all running processes on the system
ps -ef   grep xyz	displays process information for xyz
top	displays and manages the top processes
htop	interactive process viewer (top alternative)
kill pid	kills process with process ID of pid
pkill xyz	kills process with name xyz
killall abc	kills all processes named abc
program &	starts program in the background
bg	lists and resumes stopped jobs in the background
fg	brings the most recent background iob to foreground.
fg x	brings job x to the foreground
nice	starts a process with a given priority
renice	changes priority of an already running process
pstree	displays processes in a tree-like
pmap	displays a memory usage map of processes
Isof	lists files opened by running processes
Search	Commands
command -h / command	to review all available options of the
-help info command	"command" to find info documents about the
whatis command	"command" displays a single line description
\$ man UNIXCOMMAND	about the"command" to view detailed man page of the
apropos	"command" used to search man pages for
артороз	available commands on a specific

scp file.txt server:/tmp scp server:/var/www/*.html /tmp scp -r server:/var/www /tmp scp -r server:/var/www /tmp scp -r server:/var/www /tmp scp -r server:/var/www /tmp scp secure copy ille.txt to the /tmp folder on server secure copy *.html files in /var/www/ directory on server secure copy all files and direct recursively from server to the		
scp server:/var/www/*.html secure copy *.html files in /var/www/ directory on server secure copy all files and direct	)	
scn -r server: /var/www /tmn secure copy all files and direct		
I SCD -r Server'/Var/WWW /tmb i	to	
	ones	
rsync -a /home /backups/ synchronize /home to /backup	s/	
rsync -avz /home Synchronize files/directories server:/backups/ between the local and remote		
Disk Usage Commands		
df shows free hard disk space on	the	
system shows free and used space on		
mounted filesystems		
df -i shows free and used inodes or mounted filesystems		
fdisk -I shows free and used inodes or mounted filesystems	1	
du -sh shows total disk usage off the current directory		
du -ah shows disk usage for all files a	nd	
directories in readable format		
free shows free RAM on the system	1	
<b>free -h</b> shows free and used memory		
findmnt shows target mount point for a filesystem	all	
mount /xyz /abc mounts a device in /xyz to /ab	С	
Compress and Decompress Commands		
<b>azip abc</b> compresses abc file using gzip		
compresses abc file using bzip	2.	
Set Route To Your Dreams compresses abc file into the ar		
tar -czvf archive.tar.gz compresses a full directory wit /home/temp2/ subdirectories	h all	
gzip -d xyz.gz extracts xyz.gz with gzip utility	,	
gunzip xyz.gz extracts xyz.gz with gzip utility		
bzip2 -d file.php.bz2 extracts xyz.gz with bzip2 utilit		
	-7	
	y	
bunzip2 file.php.bz2 extracts xyz.gz with bzip2 utilit unzip xyz.zip extracts xyz.zip with zip utility	У	
bunzip2 file.php.bz2 extracts xyz.gz with bzip2 utilit unzip xyz.zip extracts xyz.zip with zip utility to view the contents of both fil		
bunzip2 file.php.bz2 extracts xyz.gz with bzip2 utilit  unzip xyz.zip extracts xyz.zip with zip utility  gunzip -c output.txt.gz to view the contents of both file without extracting  creates far named archive far		
bunzip2 file.php.bz2 extracts xyz.gz with bzip2 utility  unzip xyz.zip extracts xyz.zip with zip utility  gunzip -c output.txt.gz to view the contents of both fil without extracting creates tar named archive.tar containing directory  extracts the contents from		
bunzip2 file.php.bz2 extracts xyz.gz with bzip2 utilit  unzip xyz.zip extracts xyz.zip with zip utility  gunzip -c output.txt.gz to view the contents of both fil without extracting creates tar named archive.tar containing directory  tar xf archive.tar extracts the contents from archive.tar	es	
bunzip2 file.php.bz2 extracts xyz.gz with bzip2 utility  unzip xyz.zip extracts xyz.zip with zip utility  gunzip -c output.txt.gz to view the contents of both file without extracting creates tar named archive.tar containing directory extracts the contents from	es	
bunzip2 file.php.bz2 extracts xyz.gz with bzip2 utility  unzip xyz.zip extracts xyz.zip with zip utility  gunzip -c output.txt.gz to view the contents of both file without extracting creates tar named archive.tar containing directory  tar xf archive.tar extracts the contents from archive.tar creates a gzip compressed tar name archive.tar.gz  tar xzf archive.tar.gz extracts a gzip compressed tar	file	
bunzip2 file.php.bz2 extracts xyz.gz with bzip2 utility  unzip xyz.zip extracts xyz.zip with zip utility  gunzip -c output.txt.gz tar cf archive.tar directory  tar xf archive.tar extracts the contents from archive.tar  tar czf archive.tar.gz creates a gzip compressed tar name archive.tar.gz	file	





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Networki	ng Commands
arp	displays ARP table of the device
arpwatch	displays ethernet activity and Ethernet/ip pairings
bmon	displays bandwidth, captures
curl	used for for file transfer
dhclient	used to analyze clients ip address,
dig	subnet mask, gateway, dns server used for simple DNS lookup
dstat	collects and shows system resources
ethtool	used to check settings of your NIC
	<i>5 .</i>
ftp	used for for file transfer
host	used for IP-Name matchings
hping3	used for packet analyze
ifstat	used to monitor network interface statistics
ip addr	used to check network interfaces and routing activities
iptables	used for ip packet filtering
iftop	displays current bandwidth usage
ifup/ifdown	used to enable or disable interfaces
iwconfig	used to configure wireless interfaces
netstat	to check network connections
nload	used as bandwidth monitoring tool
nmap	used for security audits
nslookup	used also for DNS query
ping	used to check reachability
route	displays IP Routing Table
scp IPCisco	secured file transfer
sftp Root Pouto To V	secured file transfer
ss Best Koute / o Y	gives detailed information about the sockets
ssh	used for secure connection
tshark	analyzing and capturing
tcpdump	used for analyzing and capturing
telnet	used for classical unsecure connection
tshark	used for packet analyze
tracepath	used for path tracking
traceroute	used for path tracking
w	used to check the current system
wget	activity used to download the content of the
whois	web servers checks the whois database and
	return with IP and Domain info

Install C	commands
yum search keyword	compresses abc file using gzip.
yum install abc	installs abc package
yum info abc	displays description and summary info about abc package
rpm -i abc.rpm	installs package from local file named abc.rpm
yum remove abc	Remove/uninstall abc package
yum list installedl	lists all installed packages with yum
yum search [keyword]	finds a package by a related keyword
yum info [package_name]	shows package information and summary
yum install [package_name.rpm]	installs a package using the YUM package manager
[package_name.rpm] dnf install [package_name.rpm]	package manager installs a package using the DNF package manager
apt-get install [package name]	installs a package using the APT package manager
rpm -i [package_name.rpm]	installs an .rpm package from a local file
rpm -e [package_name.rpm]	removes an .rpm package
Hardware Inforr	mation Commands
dmesg	displays messages in kernel ring buffer
cat /proc/cpuinfo	displays CPU information
cat /proc/meminfo	displays memory information
Ispci -tv	displays PCI devices
Isusb -tv	displays USB devices
dmidecode	displays DMI/SMBIOS from BIOS
hdparm -i /dev/sda	displays info about disk sda
hdparm -tT /dev/sda	performs a read speed test on disk sda
badblocks -s /dev/sda	tests for unreadable blocks on disk

