

Linux Cheat Sheet

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Basic Linux Commands		
ls	Lists all files and directories in the present	
1 0	working directory	
ls -R	Lists files in sub-directories as well	
ls -a	Lists hidden files as well	
ls -al	Lists files and directories with detailed	
	information like permissions, size, owner, etc.	
cd or cd ~	Navigate to HOME directory	
cd	Move one level up	
cd	To change to a particular directory	
cd /	Move to the root directory	
cat > filename	Creates a new file	
cat filename	Displays the file content	
cat file1 file2 > file3	Joins two files (file1, file2) and stores the output	
	in a new file (file3)	
mv file "new file path"	Moves the files to the new location	
mv filename new_file_name	Renames the file to a new filename	
sudo	Allows regular users to run programs with the	
	security privileges of the superuser or root	
rm filename	Deletes a file	
man	Gives help information on a command	
history	Gives a list of all past commands typed in the	
	current terminal session	
clear	Clears the terminal	
mkdir directoryname	Creates a new directory in the present working	
	directory or a at the specified path	
rmdir	Deletes a directory	
mv	Renames a directory	
pr -x	Divides the file into x columns	
pr -h	Assigns a header to the file	
pr -n	Denotes the file with Line Numbers	
lp -nc , lpr c	Prints "c" copies of the File	
lp-d lp-P	Specifies name of the printer	
apt-get	Command used to install and update packages	
mail -s 'subject'		
-c 'cc-address'		
-b 'bcc-address'	Command to send email	
'to-address'		
mail -s "Subject"		
to-address < Filename	Command to send email with attachment	
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Process command	
bg	To send a process to the background
fg	To run a stopped process in the foreground
top	Details on all Active Processes
ps	Give the status of processes running for a user
ps PID	Gives the status of a particular process
pidof	Gives the Process ID (PID) of a process
kill PID	Kills a process
nice	Starts a process with a given priority
renice	Changes priority of an already running process
df	Gives free hard disk space on your system
free	Gives free RAM on your system

Environment Variables command	
echo \$VARIABLE	To display value of a variable
env	Displays all environment variables
VARIABLE_NAME= variable_value	Create a new variable
Unset	Remove a variable
export Variable=value	To set value of an environment variable

Memory and Process	
free -m	display free and used system memory
killall	stop all process by name
sensors	CPU temperature
top	display current processes, real time monitoring
kill -1 -9	send signal to process
service [start stop restart]	manage or run sysV init script
ps aux	display current processes, snapshot
dmesg -k	display system messages
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User management commands of linux	
sudo adduser username	To add a new user
sudo passwd -l 'username'	To change the password of a user
sudo userdel -r 'username'	To remove a newly created user
sudo usermod -a -G GROUPNAME USERNAME	To add a user to a group
sudo deluser USER GROUPNAME	To remove a user from a group
finger	Shows information of all the users logged in
finger username	Gives information of a particular user

File management	
find	search for a file
ls -a -C -h	list content of directory
rm -r -f	remove files and directory
locate -i	find file, using updatedb(8) database
cp -a -R -i	copy files or directory
du -s	disk usage
file -b -i	identify the file type
mv -f -i	move files or directory
grep, egrep, fgrep -i -v	print lines matching pattern

File Permission commands	
ls -l	to show file type and access permission
r	read permission
W	write permission
Х	execute permission
-=	no permission
Chown user	For changing the ownership of a file/directory
Chown user:group filename	change the user as well as group for a file or
	directory

Networking command	
SSH username@ip-address or	login into a remote Linux machine using SSH
Ping hostname="" or =""	To ping and Analyzing network and host connections
dir	Display files in the current directory of a remote computer
cd "dirname"	change directory to "dirname" on a remote computer
put file	upload 'file' from local to remote computer
get file	Download 'file' from remote to local computer
quit	Logout

VI Editing Commands	
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1	Insert at cursor (goes into insert mode)
а	Write after cursor (goes into insert mode)
A	Write at the end of line (goes into insert mode)
ESC	Terminate insert mode
u	Undo last change
U	Undo all changes to the entire line
0	Open a new line (goes into insert mode)
dd	Delete line
3dd	Delete 3 lines
D	Delete contents of line after the cursor
С	Delete contents of a line after the cursor and insert new text. Press ESC key to end insertion.
dw	Delete word
4dw	Delete 4 words
CW	Change word
X	Delete character at the cursor
r	Replace character
R	Overwrite characters from cursor onward
S	Substitute one character under cursor continue
	to insert
S	Substitute entire line and begin to insert at the
3	beginning of the line
~	Change case of individual character