

LINUX CHEAT SHEET

Basic Linux commands

Command	Description
ls	Lists all files and directories in the present 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 , lp 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' 'to-address'	Command to send email
mail -s "Subject" to-address < Filename	Command to send email with attachment

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File Permission commands

Command	Description
<code>ls-l</code>	to show file type and access permission
<code>r</code>	read permission
<code>w</code>	write permission
<code>x</code>	execute permission
<code>--</code>	no permission
<code>Chown user</code>	For changing the ownership of a file/directory
<code>Chown user:group filename</code>	change the user as well as group for a file or directory

Environment Variables command

Command	Description
<code>echo \$VARIABLE</code>	To display value of a variable
<code>env</code>	Displays all environment variables
<code>VARIABLE_NAME= variable_value</code>	Create a new variable
<code>Unset</code>	Remove a variable
<code>export Variable=value</code>	To set value of an environment variable

User management commands of linux

Command	Description
<code>sudo adduser username</code>	To display value of a variable
<code>sudo passwd -l 'username'</code>	Displays all environment variables
<code>sudo userdel -r 'username'</code>	Create a new variable
<code>sudo usermod -a -G GROUPNAME USERNAME</code>	Remove a variable
<code>sudo deluser USER GROUPNAME</code>	To set value of an environment variable
<code>finger</code>	Gives information on all logged in user
<code>finger username</code>	Gives information of a particular user

Networking command

Command	Description
<code>SSH username@ip-address or hostname</code>	login into a remote Linux machine using SSH
<code>Ping hostname="" or =""</code>	To ping and Analyzing network and host connections
<code>dir</code>	Display files in the current directory of a remote computer

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Command	Description
<code>cd "dirname"</code>	change directory to "dirname" on a remote computer
<code>put file</code>	upload 'file' from local to remote computer
<code>get file</code>	Download 'file' from remote to local computer
<code>quit</code>	Logout

Process command

Command	Description
<code>bg</code>	To send a process to the background
<code>fg</code>	To run a stopped process in the foreground
<code>top</code>	Details on all Active Processes
<code>ps</code>	Give the status of processes running for a user
<code>ps PID</code>	Gives the status of a particular process
<code>pidof</code>	Gives the Process ID (PID) of a process
<code>kill PID</code>	Kills a process
<code>nice</code>	Starts a process with a given priority
<code>renice</code>	Changes priority of an already running process
<code>df</code>	Gives free hard disk space on your system
<code>free</code>	Gives free RAM on your system

VI Editing Commands

Command	Description
<code>i</code>	Insert at cursor (goes into insert mode)
<code>a</code>	Write after cursor (goes into insert mode)
<code>A</code>	Write at the end of line (goes into insert mode)
<code>ESC</code>	Terminate insert mode
<code>u</code>	Undo last change
<code>U</code>	Undo all changes to the entire line
<code>o</code>	Open a new line (goes into insert mode)
<code>dd</code>	Delete line
<code>3dd</code>	Delete 3 lines
<code>D</code>	Delete contents of line after the cursor
<code>C</code>	Delete contents of a line after the cursor and insert new text. Press ESC key to end insertion.

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Command	Description
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 beginning of the line
~	Change case of individual character