

Linux Command Cheat Sheet

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In this Linux/Unix command line cheat sheet, you will learn:

- Basic Linux commands
- File Permission commands
- Environment Variables command
- User management commands of linux
- Networking command
- Process command
- VI Editing Commands

Basic Linux commands

Command	Description
<code>ls</code>	Lists all files and directories in the present working directory
<code>ls -R</code>	Lists files in sub-directories as well
<code>ls -a</code>	Lists hidden files as well
<code>ls -al</code>	Lists files and directories with detailed information like permissions,size, owner, etc.
<code>cd</code> or <code>cd ~</code>	Navigate to HOME directory
<code>cd ..</code>	Move one level up
<code>cd</code>	To change to a particular directory
<code>cd /</code>	Move to the root directory
<code>cat > filename</code>	Creates a new file
<code>cat filename</code>	Displays the file content
<code>cat file1 file2 > file3</code>	Joins two files (file1, file2) and stores the output in a new file (file3)
<code>mv file "new file path"</code>	Moves the files to the new location
<code>mv filename new_file_name</code>	Renames the file to a new filename

Command	Description
<code>sudo</code>	Allows regular users to run programs with the security privileges of the superuser or root
<code>rm filename</code>	Deletes a file
<code>man</code>	Gives help information on a command
<code>history</code>	Gives a list of all past commands typed in the current terminal session
<code>clear</code>	Clears the terminal
<code>mkdir directoryname</code>	Creates a new directory in the present working directory or a at the specified path
<code>rmdir</code>	Deletes a directory
<code>mv</code>	Renames a directory
<code>pr -x</code>	Divides the file into x columns
<code>pr -h</code>	Assigns a header to the file
<code>pr -n</code>	Denotes the file with Line Numbers
<code>lp -nc , lpr c</code>	Prints "c" copies of the File
<code>lp-d lp-P</code>	Specifies name of the printer
<code>apt-get</code>	Command used to install and update packages
<code>mail -s 'subject' -c 'cc-address' -b 'bcc-address' 'to-address'</code>	Command to send email
<code>mail -s "Subject" to-address < Filename</code>	Command to send email with attachment

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 add a new user
<code>sudo passwd -l 'username'</code>	To change the password of a user
<code>sudo userdel -r 'username'</code>	To remove a newly created user
<code>sudo usermod -a -G GROUPNAME USERNAME</code>	To add a user to a group
<code>sudo deluser USER GROUPNAME</code>	To remove a user from a group
<code>finger</code>	Shows information of all the users logged in
<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
<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
i	Insert at cursor (goes into insert mode)
a	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
o	Open a new line (goes into insert mode)
dd	Delete line
3dd	Delete 3 lines
D	Delete contents of line after the cursor
C	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

Command	Description
	Substitute entire line and begin to insert at the beginning of the line
	Change case of individual character

Hope this Linux reference guide helps you!