Linux **Cheat Sheet**

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Basic Terminal Navigation and File Manipulation		File Permissions and User Management	
ls -lahi	List all files and folders in human readable with inodes	chown <user>:<group> <file>	Change ownership of file
find <path> -name "<filename>"	Find filename in path	chmod 0750 <file>	Change file permissions
cd <directory >	Change directory		<sticky/special> <owner > <group> <other>
mv <file/folder> <directory>	Move file/folder into a folder		1 = execute, 2 = write, 4 = read
mv <filename1> <filename2>	Rename file or folder		RW permissions: read (4) + write (2) = 6
file <file>	Determine file type	chmod 0660 <file>	Read and write permission on file for owner and group
ln -s <file1> <file2>	Create symbolic link from file1 named as file2	lsattr <file>	List file attributes
ln <file1> <file2>	Create a hard link. File1 and file2 will point to the same inode	id	Print real and effective user and group IDs
touch <filename>	Create an empty file	sudo <file>	Execute file as super user
rm <filename>	Delete file	adduser <username>	Create user
rm –r <directory>	Delete files from the directory recursively and delete the folder	passwd <username>	Change user password
mkdir -p <folder>/<subfolder>	Create a directory tree	deluser <username>	Delete user
rmdir <folder>	Remove an empty folder	addgroup <group>	Create new group
cat <filename>	Show content of file	delgroup <group>	Delete group
grep "<text>" <file>	Search for text in file	usermod -g <group> <username>	Change user group
clear	Clear the terminal screen	**Disk Usage**	
updatedb	Update database of files	df –h	Report file system disk space usage
locate <filename>	Find files by name	df –i	Report file system inode usage

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Flow Redirection, Chain Commands and Archiving		Process Management	
>	Redirect result and overwrite the file	w	List who is logged in and executing what
>>	Redirect result and append to file	ps	Process list (shows your processes)
echo "<text>" ><file>	Overwrite the file and write <text> into it	ps -aux	Show every running process on the system
cat <file1> >> <file2>	Append the content of file1 into file2	top	Dynamic process list
|	Send the output of one program to another program for further processing	kill -9 <pid>	Kill a process represented by the PID number
cat <file> |grep "<text>"	Print lines with <text> in them	kill -15 <pid>	Terminate a process represented by the PID number
&	Run process in the background	apt-get install <package>	Install service or package on Debian and Ubuntu
cp <file> <path > &	Copy the file in the background	yum install <package>	Install service or package on CentOS and Redhat
less <file>	The more advanced version of "more" which is used to read text files	date	Print date and time on the machine
head -n10 <file>	Show the first 10 lines of the file	**Networking**	
tail -n10 <file>	Show the last 10 lines of the file	ip	Show and manipulate routing, devices, policy and tunnels
tail -f <file>	"Follow" the file and print new lines as they are added	ip addr	Show network devices with IP addresses
tar -cvf <filename.tar> <Directory/File>	Create a tar file of the desired directory or file while in verbose mode	ip link	Show links and their status
tar -xvf <filename.tar>	Extract tar file while in verbose mode	ip route show	Show routing from the default table
tar -cjvf <filename.tar.bz2>	Create a bzip2 file	**Manual**	
tar- czvf <filename.tar.gz>	Create a gzip file	man	Interface for reference manuals
tar -tf <archive.tar>	List content of a tar archive without extracting	man <command>	Show the reference manual for the specified command