

Linux Commands "Cheat Sheet" by JanosTech.net

v2.0

SYSTEM COMMANDS

hostname > shows system hostname
uname -a > linux system information
uname -r > kernel release information
uptime > how long is the system running
last reboot > when was the system last rebooted
date > current date
cal > calendar on display
w > displays who's online
whoami > displays who is logged in
man <command> > manual for the selected command
head -n1 etc/issue > Show distribution info

PROCESS MANAGEMENT

ps > process snapshot
ps aux | grep 'ssh' > find all processes for 'ssh'
top or **htop** > real time processes
kill <pid> > kill process with id <pid>
pkill <name> > kill process with name <name>
killall <name> > kill all processes containing <name>

DISK USAGE

df -h > Show free space of mounted filesystems
du -sh > total disk usage on the current directory
findmnt > Target mount point for all filesystems
mount <device path> <mount point> > mount a device
umount <device path> > disconnect a mounted device

FILE PERMISSIONS

chmod 777 /folder/subfolder > set rwx permission for owner/group/everyone
chmod 755 /folder/subfolder > set rwx permission for owner, rx for group and everyone
chmod +x <filename> > set <filename> as executable
chmod -x <filename> > remove executable permission from <filename>
chmod a+x <filename> > assign execute privilege for everyone on this <filename>
chmod u+x <filename> > assign execute privilege for current user on this <filename>
chmod --reference=file1 file2 > file2 permission will be set like file1 permission
chmod -R 755 directory-name/ > apply 755 permission to all files under a directory
chmod u+X * > change execute permission only on folders (files not affected)

chown root <filename> > change owner to root on <filename> file
chown :janostech <filename> > change group to users on <filename> file
chown root:janostech <filename> > change owner(root) and group(janostech) on <filename> file
chown -R root foldername/ > change ownership of directory to root
chown -c janostech <file1> <file2> > change ownership to janostech on <file1> <file2>

NETWORK

ip addr	> display all network interfaces and ip addresses
ip address add 10.5.5.10 dev enp0s25	> Set IP on enp0s25 to 10.5.5.10
ethtool enp0s25	> Show ethernet status on enp0s25 interface
ping <host or IP>	> ping host or IP address
hostname	> shows system hostname
hostname -i	> local ip address
netstat -tupl	> listing all active listening ports
netstat grep "ESTABLISHED"	> listing all "ESTABLISHED" connections
host google.com	> DNS lookup and reverse lookup on google.com
wget <web address to file>	> Download file from the web
iw dev	> display wireless interface info
iw wlp3s0 link	> display wireless connection info for wlp3s0 interface

ARCHIVING, COMPRESSION

tar -cvzf archive_name.tar.gz directoy_name/	> create a compressed file of this directory
tar -xvzf archive_name.tar.gz	> extract a compressed file

INSTALL APPLICATION FROM SOURCE

Download and uncompress (if compressed) files and use the following commands to install

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./configure  
make  
make install
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LOGIN TO REMOTE SYSTEMS (SSH)

ssh username@10.5.5.10	> Connect to IP with SSH
ssh -p 22 username@10.5.5.10	> Connect to IP on port 22 with SSH

FILE TRANSFER

scp file1.txt SERVER2:/home/janostech	> secure copy file1.txt to the <i>/home/janostech</i> directory on SERVER2
rsync -a /home/janostech /backup/	> synch source (<i>home/janostech</i>) to destination (<i>/backup</i>)