Linux Commands "Cheat Sheet" by JanosTech.net v2.0

SYSTEM COMMANDS

hostname > shows system hostaname > linux system information uname -a uname -r > kernel release information > how long is the system running uptime > when was the system last rebooted last reboot

date > current date > calendar on display cal > displays who's online w > displays who is logged in whoami

man <command> > manual for the selected command

> Show distribution info head -n1 etc/issue

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

> Show free space of mounted filesystems dh -h > total disk usage on the current directory du -sh > Target mount point for all filesystems findmnt 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 > set <filename> as executable chmod +x <filename> 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

> 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

> change ownership of directory to root

> change ownership to janostech on <file1> <file2>

NETWORK

chmod u+X *

ip addr ip address add 10.5.5.10 dev enp0s25 ethtool enp0s25 ping <host or IP> hostname hostname -i netstat -tupl netstat | grep "ESTABLISHED"

host google.com

wget <web address to file>

chown -R root foldername/

chown -c janostech <file1> <file2>

iw dev iw wlp3s0 link

listing all active listening portslisting all "ESTABLISHED" connectionsDNS lookup and reverse lookup on google.com

> Set IP on enp0s25 to 10.5.5.10

> ping host or IP address

> local ip address

> shows system hostname

> display all network interfaces and ip addresses

> Show ethernet status on enp0s25 interface

> Download file from the web > display wireless interface info

> display wireless connection info for wlp3s0 interface

ARCHIVING, COMPRESSION

tar -cvzf archive name.tar.gz directoy name/ tar -xvzf archive_name.tar.gz

- > create a compressed file of this directory
- > extract a compressd file

INSTALL APPLICATION FROM SOURCE

Download and uncompress (if compressed) files and use the following commands to install ./configure make make install

LOGIN TO REMOTE SYSTEMS (SSH)

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

FILE TRANSFER