

File Management

Linux Filesystems: ext3 ext4 xfs	Windows Filesystems: NTFS FAT
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Basic Commands

pwd	print working directory
cd	home directory (/home/
~	
/	root directory (absolute
~	user directory (/home/u
.	current directory (relati
..	parent directory (relativ
ls	show directory contents
ls -l	show directory contents
ls -ltriah	show directory contents -l long -t time sorted (-S for siz -r reverse -i inode -a show hidden files -h human readable file

Type	# of Links	User Owner	Group Owner	Size	Month
drwxr-xr-x	21	root	root	4096	Feb
lrwxrwxrwx	1	root	root	7	Feb
-rw-r--r--	1	root	root	0	Mar

d	directory
l	link
• •	file

Creating Files and Directories

touch filename	create file
rm filename	remove file

cp filename newfilename	copy file and name it
cp filename /tmp	copy file to /tmp
mv filename newfilename	renames the file
mv filename /tmp	move file to /tmp
mkdir dirname	create directory
rmdir dirname	remove directory
rm -r dirname	remove directory
chgrp groupowner filename	change the group owner
chown userowner filename	change the user owner
chown userowner:groupowner filename	change the user and group owner
echo "text" > filename	insert the text into the file
cat filename	display the text inside a file
rm -rf	remove directory (recursive)

Searching Files and Directories

nsotelo@rhel-pc:~\$ find / -name "*ksh*.rpm" 2> /dev/null	search file or directory for .rpm stderr to /dev/null
grep -ri error /var/log/ 2> /dev/null wc -l	search file contents for -c count -r recursive -i ignore case sensitive -n display matched line -v all except specified wc -l word count lines of
egrep -i "keyword keyword2" /var/log	search file contents for
find /etc -name "*.conf*" xargs grep "localhost"	combination of above c

Soft and Hard Links

- inode - pointer of number of a file on the disk
- soft link - link will be removed if the file is removed or renamed
- hard link - deleting, renaming or moving the original file will not affect the hard link

ln /location/file	creates a hard link to a
ln -s /location/file	creates a soft link to a f

Soft Link Example (Hard link may return an error has both directories must be on the same partition)

touch hulk

cd /tmp

/tmp \$ ln -s /home/nsotelo/hulk

Input and Output Redirects (3 Redirects)

standard input (stdin) with file descriptor 0	ls >> listings
standard output (stdout) with file descriptor 1	cat < listings
standard output (stdout) with file descriptor 1	mail -s "office memo" allusers@abc.com < memoletter
standard error (stderr) with file descriptor 2	ls -l /root 2> errorfile

Pipes

Connects the output of one command directly to the input of another command

ls -ltr | more

ll | tail -l

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