Basic Linux Commands by Mr. Sasidhar Cloudera Certified Hadoop Professional sasis937@gmail.com

Unix/Linux Commands

File Commands

ls . directory listing ls -al . formatted listing with hidden files cd dir - change directory to dir cd . change to home pwd . show current directory mkdir dir . create a directory dir rm file . delete file rm -r dir . delete directory dir rm -f file . force remove file rm -rf dir . force remove directory dir * cp file1 file2 . copy file1 to file2 cp -r dir1 dir2 . copy dir1 to dir2; create dir2 if it doesn't exist my file1 file2 . rename or move file1 to file2 if file2 is an existing directory, moves file1 into directory file2 In -s file link . create symbolic link link to file touch file . create or update file cat > file . places standard input into file more file . output the contents of file head file . output the first 10 lines of file tail file . output the last 10 lines of file tail -f file . output the contents of file as it grows, starting with the last 10 lines

Process Management

ps . display your currently active processes top . display all running processes kill pid . kill process id pid killall proc . kill all processes named proc * bg . lists stopped or background jobs; resume a stopped job in the background fg . brings the most recent job to foreground fg n . brings job n to the foreground

File Permissions

chmod octal file . change the permissions of file to octal, which can be found separately for user, group, and world by adding:

☐ 4 . read (r)

2 . write (w)

1 . execute (x)

Examples:

chmod 777. read, write, execute for all chmod 755. rwx for owner, rx for group and world For more options, see man chmod.

SSH

ssh user@host . connect to host as user ssh -p port user@host . connect to host on port port as user ssh-copy-id user@host . add your key to host for user to enable a keyed or passwordless login

Searching

grep pattern files . search for pattern in files grep -r pattern dir . search recursively for pattern in dir command | grep pattern . search for pattern in the output of command locate file . find all instances of file

System Info

date . show the current date and time cal . show this month's calendar uptime . show current uptime w . display who is online whoami . who you are logged in as finger user . display information about user uname -a . show kernel information cat /proc/cpuinfo . cpu information cat /proc/meminfo . memory information man command . show the manual for command df . show disk usage du . show directory space usage free . show memory and swap usage whereis app . show possible locations of app which app . show which app will be run by default

Compression

tar cf file.tar files . create a tar named file.tar containing files tar xf file.tar . extract the files from file.tar tar czf file.tar.gz files . create a tar with Gzip compression tar xzf file.tar.gz . extract a tar using Gzip tar cjf file.tar.bz2 . create a tar with Bzip2 compression tar xjf file.tar.bz2 . extract a tar using Bzip2 gzip file . compresses file and renames it to file.gz gzip -d file.gz . decompresses file.gz back to file

Network

ping host . ping host and output results whois domain . get whois information for domain dig domain . get DNS information for domain dig -x host . reverse lookup host wget file . download file wget -c file . continue a stopped download

Installation

Install from source:
./configure
make
make install
dpkg -i pkg.deb . install a package (Debian)
rpm -Uvh pkg.rpm . install a package (RPM)

Shortcuts

Ctrl+C . halts the current command
Ctrl+Z . stops the current command, resume with
fg in the foreground or bg in the background
Ctrl+D . log out of current session, similar to exit
Ctrl+W . erases one word in the current line
Ctrl+U . erases the whole line
Ctrl+R . type to bring up a recent command
!! - repeats the last command
exit . log out of current session