Linux Command Summary

Jeongmin Lee

File Commands

- 1. ls Directory listing
- 2. ls -al Formatted listing with hidden files
- 3. ls -lt Sort formatted listing by time modification
- 4. cd dir Change directory to dir
- 5. cd Change to home directory
- 6. pwd Show current working directory
- 7. mkdir dir Create directory dir
- 8. cat > file Place standard input into file
- 9. more file Output contents of file
- 10. head file Output the first 10 lines
- 11. tail file Output the last 10 lines
- 12. tail -f file Output file as it grows
- 13. touch file Create or update file
- 14. rm file Delete file
- 15. rm -r dir Delete directory
- 16. rm -f file Force remove file
- 17. rm -rf dir Force remove directory
- 18. cp file1 file2 Copy file1 to file2
- 19. cp -r dir1 dir2 Copy directory recursively

Process Management

- 1. ps Display current processes
- 2. top Display all running processes
- 3. kill pid Kill process with given PID
- 4. killall proc Kill all processes named proc
- 5. pkill pattern Kill processes matching pattern
- 6. bg List/resume background jobs
- 7. fg Bring most recent job to foreground
- 8. fg n Bring job n to foreground

System Information

- 1. date Show current date/time
- 2. cal Show calendar
- 3. uptime Show system uptime
- 4. w Show who is logged in
- 5. whoami Show current user
- 6. finger user User information
- 7. uname -a Kernel information
- 8. cat /proc/cpuinfo CPU info
- 9. cat /proc/meminfo Memory info
- 10. man command Manual page
- 11. df Disk usage
- 12. du Directory space usage
- 13. free Memory and swap usage
- 14. whereis app Show possible locations of app
- 15. which app Show default application path

Searching

- 1. grep pattern file Search for pattern in file
- 2. grep -r pattern dir Recursive search
- 3. command grep pattern | Search pattern in command output
- 4. locate file Find all instances of file
- 5. find . -name filename Search files in current directory
- 6. pgrep pattern Search for processes by pattern

File Permission

chmod octal file Change file permission.

Octal values:

- 4 = read (r)
- 2 = write(w)
- 1 = execute(x)

Compression

- 1. tar cf file.tar file Create tar
- 2. tar xf file.tar Extract tar
- 3. tar czf file.tar.gz files Create tar with gzip
- 4. tar xzf file.tar.gz Extract tar with gzip
- 5. tar cjf file.tar.bz2 Create tar with bzip2
- 6. tar xjf file.tar.bz2 Extract tar with bzip2
- 7. gzip file Compress file
- 8. gzip -d file.gz Decompress file

Networking

- 1. ping host Ping host
- 2. whois domain Whois info
- 3. dig domain DNS info
- 4. dig -x host Reverse DNS lookup
- 5. wget file Download file
- 6. wget -c file Resume download

Shortcuts

- 1. Ctrl+c Halt command
- 2. Ctrl+z Stop command (resume with fg/bg)
- 3. Ctrl+d Logout current session
- 4. Ctrl+w Erase one word
- 5. Ctrl+u Erase whole line
- 6. Ctrl+r Search recent command
- 7. !! Repeat last command
- 8. exit Logout current session