



Linux Warehouse

my knowledge base of Linux commands learned from YouTube video

shell scripting

- shell refers to interface between users and operating system (os)
- operating system is a software that manages hardwares and provide services to other softwares
- shell scripting refers to writing script or file with sequence of commands to automate process in linux os

commands

- basic commands : <https://github.com/ppkgtmmlinux-warehouse/blob/main/code/others.sh>

command	description
whoami	shows the currently logged-in user name
man	provides information or manual about command
clear	clears from terminal screen
date	prints current date and time
echo	displays arguments passed to it
	passes standard output of previous command as standard input of next command
export	allows setting environment variable through terminal

- file and directory : <https://github.com/ppkgtmmlinux-warehouse/blob/main/code/filesys.sh>

command	description
pwd	prints current working directory
ls	lists contents of specified directory default to current directory
cd	changes working directory
mkdir	create directories
touch	creates empty files
rm	removes files or directories
cp	copies file or directory
mv	moves or renames file or directory
open	opens files or directories using default program

- file content : <https://github.com/ppkgmtmm/linux-warehouse/blob/main/code/content.sh>

command	description
head	displays first few lines of a file
tail	displays last new lines of a file
cat	display concatenated content of files
less	displays contents of a file one page at a time
> and >>	redirects standard output to a file
wc	displays word, line and byte count of files
sort	merge and sort lines of files
uniq	displays unique lines of a file

- wildcards : <https://github.com/ppkgmtmm/linux-warehouse/blob/main/code/wildc.sh>

symbol	description
*	refers to zero or more characters
?	refers to single character in path name
[...]	matches any character within the brackets
[^...]	matches any character NOT in the brackets

- substitution : <https://github.com/ppkgmtmm/linux-warehouse/blob/main/code/subst.sh>

symbol	description
tilde or ~	refers to home directory path of current user
\$(...)	allows substituting command result
\$((...))	allows substituting arithmetic result
{...,...}	expands pattern to multiple patterns

- file and directory content :

<https://github.com/ppkgmtmm/linux-warehouse/blob/main/code/filedir.sh>

command	description
diff	detects differences between 2 files or file versions
find	find files and folders matching specified criteria
grep	allows searching file content or command output
gzip	compresses files to reduce storage consumption
gunzip	uncompresses specified g-zip files
tar	useful in manipulating archive which contains multiple files packaged together
nano	opens a text file for editing. save changes with ctrl+O and quit with editor ctrl+X
ln	allows creating links or shortcuts

- resource and process : <https://github.com/ppkgmtmm/linux-warehouse/blob/main/code/process.sh>

command	description
du	calculates size default for current directory
df	calculates disk usage of file systems
ps	list current running user initiated processes
top	displays all running processes in real-time. useful for monitoring
kill	sends specified signal by default TERM to a process

- foreground and background job :

<https://github.com/ppkgmtmm/linux-warehouse/blob/main/code/fbjobs.sh>

command	description
&	useful in running long running commands as background job
jobs	lists background jobs or stopped processes created in current shell session
bg	resumes foreground job or stopped process in background
fg	brings background job to foreground or resumes stopped process in foreground

- user and permission : <https://github.com/ppkgtmmlinux-warehouse/blob/main/code/uperm.sh>

command	description
who	displays users logged in to system
su	switches to specified user
sudo	provides elevated privileges to run critical but permitted commands
passwd	updates current user's password by default
chown	changes owner of file or directory
chmod	manages permission on file or directory

- additional commands : <https://github.com/ppkgtmmlinux-warehouse/blob/main/code/extras.sh>

command	description
history	display commands history where most recently run command is at bottom
alias	creates alias for long command in current shell session
xargs	passes output of previous command as arguments of next command