# **Basic Linux Commands**

# **Is**list directory contents

# cd

change the current directory

### Terminal File Edit View Search Terminal Help gerald@the-proud-dad:Apprentice Linux Example\$ cd ~ gerald@the-proud-dad:~\$ cd -/home/gerald/Apprentice Linux Example gerald@the-proud-dad:Apprentice Linux Example\$ cd ~/ gerald@the-proud-dad:~\$ cd Scripts/ gerald@the-proud-dad:Scripts\$ cd /var/ gerald@the-proud-dad:var\$ cd /etc/init.d/ gerald@the-proud-dad:init.d\$ cd ../ gerald@the-proud-dad:etc\$ cd ../home/gerald/Apprentice\_Linux\_Example/ gerald@the-proud-dad:Apprentice Linux Example\$

# pwd

print name of current/working directory

# **cp** copy files and directories

gerald@the-proud-dad:Apprentice\_Linux\_Example\$ ls baboy baka manok okra patola talong gerald@the-proud-dad:Apprentice\_Linux\_Example\$ cp manok sisiw gerald@the-proud-dad:Apprentice\_Linux\_Example\$ ls baboy baka manok okra patola sisiw talong gerald@the-proud-dad:Apprentice\_Linux\_Example\$ cp -r talong torta gerald@the-proud-dad:Apprentice\_Linux\_Example\$ ls baboy baka manok okra patola sisiw talong torta gerald@the-proud-dad:Apprentice\_Linux\_Example\$ cp -rv \* ~/Destination 'baboy' -> '/home/gerald/Destination/baboy' 'baka' -> '/home/gerald/Destination/baka' 'manok' -> '/home/gerald/Destination/manok' 'okra' -> '/home/gerald/Destination/okra' 'okra/talong' -> '/home/gerald/Destination/okra/talong' 'patola' -> '/home/gerald/Destination/patola' 'sisiw' -> '/home/gerald/Destination/sisiw' 'talong' -> '/home/gerald/Destination/talong' 'torta' -> '/home/gerald/Destination/torta' gerald@the-proud-dad:Apprentice\_Linux\_Example\$ ls ~/Destination/ baboy baka manok okra patola sisiw talong torta gerald@the-proud-dad:Apprentice\_Linux\_Example\$ cp -r t\* ~/Destination/ gerald@the-proud-dad:Apprentice\_Linux\_Example\$ cp -r \*a ~/Destination/ gerald@the-proud-dad:Apprentice\_Linux\_Example\$ cp -r t\*a ~/Destination/ gerald@the-proud-dad:Apprentice\_Linux\_Example\$ cp -r \*.doc ~/Destination

### mv

move (rename) files

### **⊗** □ Terminal

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gerald@the-proud-dad:Apprentice\_Linux\_Example\$ ls
baboy baka manok okra patola sisiw talong torta
gerald@the-proud-dad:Apprentice\_Linux\_Example\$ mv torta/ panis\_na\_torta
gerald@the-proud-dad:Apprentice\_Linux\_Example\$ ls
baboy baka manok okra panis\_na\_torta patola sisiw talong
gerald@the-proud-dad:Apprentice\_Linux\_Example\$ mv -i manok sisiw
mv: overwrite 'sisiw'? N
gerald@the-proud-dad:Apprentice\_Linux\_Example\$ ls
baboy baka manok okra panis\_na\_torta patola sisiw talong
gerald@the-proud-dad:Apprentice\_Linux\_Example\$ ■

# mkdir

make directories

```
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gerald@the-proud-dad:Apprentice_Linux_Example$ ls
gerald@the-proud-dad:Apprentice_Linux_Example$ mkdir enrile
gerald@the-proud-dad:Apprentice_Linux_Example$ ls
enrile
gerald@the-proud-dad:Apprentice_Linux_Example$ mkdir {revilla,estrada}
gerald@the-proud-dad:Apprentice Linux Example$ ls
enrile estrada revilla
gerald@the-proud-dad:Apprentice_Linux_Example$ mkdir -p corruption/pdaf
gerald@the-proud-dad:Apprentice_Linux_Example$ ls
corruption enrile estrada revilla
gerald@the-proud-dad:Apprentice_Linux_Example$ ls corruption/
pdaf
gerald@the-proud-dad:Apprentice_Linux_Example$
```

### rm

remove files or directories

# File Edit View Search Terminal Help gerald@the-proud-dad:Apprentice\_Linux\_Example\$ man rm gerald@the-proud-dad:Apprentice\_Linux\_Example\$ rm corruption/ rm: cannot remove 'corruption/': Is a directory gerald@the-proud-dad:Apprentice\_Linux\_Example\$ rm -r corruption/ gerald@the-proud-dad:Apprentice\_Linux\_Example\$ ls enrile estrada revilla gerald@the-proud-dad:Apprentice\_Linux\_Example\$ rm -r estrada/ enrile/ gerald@the-proud-dad:Apprentice\_Linux\_Example\$ ls revilla gerald@the-proud-dad:Apprentice\_Linux\_Example\$ rm -r \* gerald@the-proud-dad:Apprentice\_Linux\_Example\$ ls gerald@the-proud-dad:Apprentice\_Linux\_Example\$ ls gerald@the-proud-dad:Apprentice\_Linux\_Example\$ ls

# grep

print lines matching a pattern

### **⊗** □ Terminal

```
gerald@the-proud-dad:Apprentice_Linux_Example$ ls
lupang_hinirang
gerald@the-proud-dad:Apprentice_Linux_Example$ grep Hinirang lupang_hinirang
Lupang Hinirang,
gerald@the-proud-dad:Apprentice_Linux_Example$ grep -n Hinirang lupang_hinirang
6:Lupang Hinirang,
gerald@the-proud-dad:Apprentice_Linux_Example$ grep -c Hinirang lupang_hinirang
1
gerald@the-proud-dad:Apprentice_Linux_Example$ grep -R 'test' /var/www
```

# chmod

change file mode bits

## **Permission Table**

User	Group Ano	nymous Comma	nd
rwx	rwx	rwx	chmod 777
rwx	rwx	r-x	chmod 775
rwx	r-x	r-x	chmod 755
rw-	rw-	r	chmod 664
rw-	r	r	chmod 644

r = Readable

w = writable

x = executable

- = no permission

# Here is another way of looking at it

400	read by owner
040	read by group
004	read by anybody
200	write by owner
020	write by group
002	write by anybody
100	execute by owner
010	execute by group
001	execute by anybody

# chown

change file owner and group

### 🚫 🖨 🖨 Terminal

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```
gerald@the-proud-dad:~$ chown -R gerald Apprentice_Linux_Example/
gerald@the-proud-dad:~$ cd Apprentice_Linux_Example/
gerald@the-proud-dad:Apprentice_Linux_Example$ chown gerald *
gerald@the-proud-dad:Apprentice_Linux_Example$
```

## sudo

allows a permitted user to execute a command as the superuser or another user, as specified by the security policy

# File Edit View Search Terminal Help gerald@the-proud-dad:www\$ ls cgi-bin html index.html gerald@the-proud-dad:www\$ mkdir test mkdir: cannot create directory 'test': Permission denied gerald@the-proud-dad:www\$ sudo mkdir test [sudo] password for gerald: gerald@the-proud-dad:www\$ ls cgi-bin html index.html test gerald@the-proud-dad:www\$

# exit

cause normal process termination

# scp

secure copy (remote file copy program)

### To copy the file "file.txt" from a remote host to the local host

\$ scp user@domain:file.txt /path/to/local/directory

### To copy the file "file.txt" from the local host to a remote host

\$ scp file.txt user@domain:/path/to/directory

# To copy the directory "foo" from the local to a remote host directory "bar"

\$ scp -r foo user@domain:/path/to/directory/bar

# To copy the file "file.txt" from remote host "domain1" to remote host "domain2"

\$ scp user@domain1:/path/to/directory/file.txt user@domain2:/path/to/directory/

# init.d

contains a number of start/stop scripts for various services on your system

### To start the service | daemon

\$ sudo /etc/init.d/SERVICE\_NAME start

### To stop the service | daemon

\$ sudo /etc/init.d/SERVICE\_NAME stop

### To restart the service | daemon

\$sudo /etc/init.d/SERVICE\_NAME restart

### To reload service config

\$sudo /etc/init.d/SERVICE\_NAME reload

SERVICE\_NAME could be apache2, mysql, varnish, memcache, etc

# Signs & Symbols

```
~ or ~/ = home
/ = root directory
$ = normal user, or a variable
# = root user
| = pipe
```

### **Contacts**



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