1. alan@Alan:~$ mkdir test\_dir

alan@Alan:~$ cd test\_dir

alan@Alan:~/test\_dir$ touch example.txt

alan@Alan:~/test\_dir$ ls

example.txt

alan@Alan:~/test\_dir$ mv example.txt renamed\_example.txt

alan@Alan:~/test\_dir$ ls

Renamed\_example.txt

1. alan@Alan:~/test\_dir$ cat /etc/passwd

alan@Alan:~/test\_dir$ cat /etc/passwd

root:x:0:0:root:/root:/bin/bash

daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin

bin:x:2:2:bin:/bin:/usr/sbin/nologin

sys:x:3:3:sys:/dev:/usr/sbin/nologin

sync:x:4:65534:sync:/bin:/bin/sync

games:x:5:60:games:/usr/games:/usr/sbin/nologin

man:x:6:12:man:/var/cache/man:/usr/sbin/nologin

lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin

mail:x:8:8:mail:/var/mail:/usr/sbin/nologin

news:x:9:9:news:/var/spool/news:/usr/sbin/nologin

uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin

proxy:x:13:13:proxy:/bin:/usr/sbin/nologin

www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin

backup:x:34:34:backup:/var/backups:/usr/sbin/nologin

list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin

irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin

\_apt:x:42:65534::/nonexistent:/usr/sbin/nologin

nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin

systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin

systemd-timesync:x:996:996:systemd Time Synchronization:/:/usr/sbin/nologin

dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false

messagebus:x:101:101::/nonexistent:/usr/sbin/nologin

syslog:x:102:102::/nonexistent:/usr/sbin/nologin

systemd-resolve:x:991:991:systemd Resolver:/:/usr/sbin/nologin

uuidd:x:103:103::/run/uuidd:/usr/sbin/nologin

landscape:x:104:105::/var/lib/landscape:/usr/sbin/nologin

polkitd:x:990:990:User for polkitd:/:/usr/sbin/nologin

alan:x:1000:1000:,,,:/home/alan:/bin/bash

alan@Alan:~/test\_dir$ head -n 5 /etc/passwd

root:x:0:0:root:/root:/bin/bash

daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin

bin:x:2:2:bin:/bin:/usr/sbin/nologin

sys:x:3:3:sys:/dev:/usr/sbin/nologin

sync:x:4:65534:sync:/bin:/bin/sync

alan@Alan:~/test\_dir$ tail -n 5 /etc/passwd

systemd-resolve:x:991:991:systemd Resolver:/:/usr/sbin/nologin

uuidd:x:103:103::/run/uuidd:/usr/sbin/nologin

landscape:x:104:105::/var/lib/landscape:/usr/sbin/nologin

polkitd:x:990:990:User for polkitd:/:/usr/sbin/nologin

alan:x:1000:1000:,,,:/home/alan:/bin/bash

1. alan@Alan:~/test\_dir$ grep "root" /etc/passwd

root:x:0:0:root:/root:/bin/bash

1. alan@Alan:~/test\_dir$ /test\_dir$ zip -r test\_dir.zip test\_dir

zip warning: name not matched: test\_dir

zip error: Nothing to do! (try: zip -r test\_dir.zip . -i test\_dir)^C

alan@Alan:~/test\_dir$ cd ..

zip -r test\_dir.zip test\_dir

adding: test\_dir/ (stored 0%)

adding: test\_dir/renamed\_example.txt (stored 0%)

alan@Alan:~$ ls

test\_dir test\_dir.zip

alan@Alan:~$ unzip test\_dir.zip -d unzipped\_dir

Archive: test\_dir.zip

creating: unzipped\_dir/test\_dir/

extracting: unzipped\_dir/test\_dir/renamed\_example.txt

alan@Alan:~$ test\_dir test\_dir.zip unzipped\_dir

test\_dir: command not found

alan@Alan:~$ ls

test\_dir test\_dir.zip unzipped\_dir

alan@Alan:~$ ls unzipped\_dir

test\_dir

alan@Alan:~$ ls test\_dir

renamed\_example.txt

1. alan@Alan:~$ wget https://example.com/sample.txt

--2025-09-22 05:34:49-- https://example.com/sample.txt

Resolving example.com (example.com)... 23.192.228.80, 23.215.0.138, 23.220.75.232, ...

Connecting to example.com (example.com)|23.192.228.80|:443... connected.

HTTP request sent, awaiting response... 404 Not Found

2025-09-22 05:34:50 ERROR 404: Not Found.

alan@Alan:~$ wget https://www.w3.org/TR/PNG/iso\_8859-1.txt

--2025-09-22 05:36:12-- https://www.w3.org/TR/PNG/iso\_8859-1.txt

Resolving www.w3.org (www.w3.org)... 104.18.22.19, 104.18.23.19, 2606:4700::6812:1713, ...

Connecting to www.w3.org (www.w3.org)|104.18.22.19|:443... connected.

HTTP request sent, awaiting response... 301 Moved Permanently

Location: https://www.w3.org/TR/png/iso\_8859-1.txt [following]

--2025-09-22 05:36:12-- https://www.w3.org/TR/png/iso\_8859-1.txt

Reusing existing connection to www.w3.org:443.

HTTP request sent, awaiting response... 404 Not Found

2025-09-22 05:36:13 ERROR 404: Not Found.

1. alan@Alan:~$ touch secure.txt

alan@Alan:~$ ls secure.txt

Secure.txt

alan@Alan:~$ ls -l secure.txt

-rw-r--r-- 1 alan alan 0 Sep 22 05:37 secure.txt

alan@Alan:~$ chmod 444 secure.txt

alan@Alan:~$ ls -l secure.txt

-r--r--r-- 1 alan alan 0 Sep 22 05:37 secure.txt

1. alan@Alan:~$ export MY\_VAR="Hello, Linux!"

alan@Alan:~$ echo $MY\_VAR

Hello, Linux!

