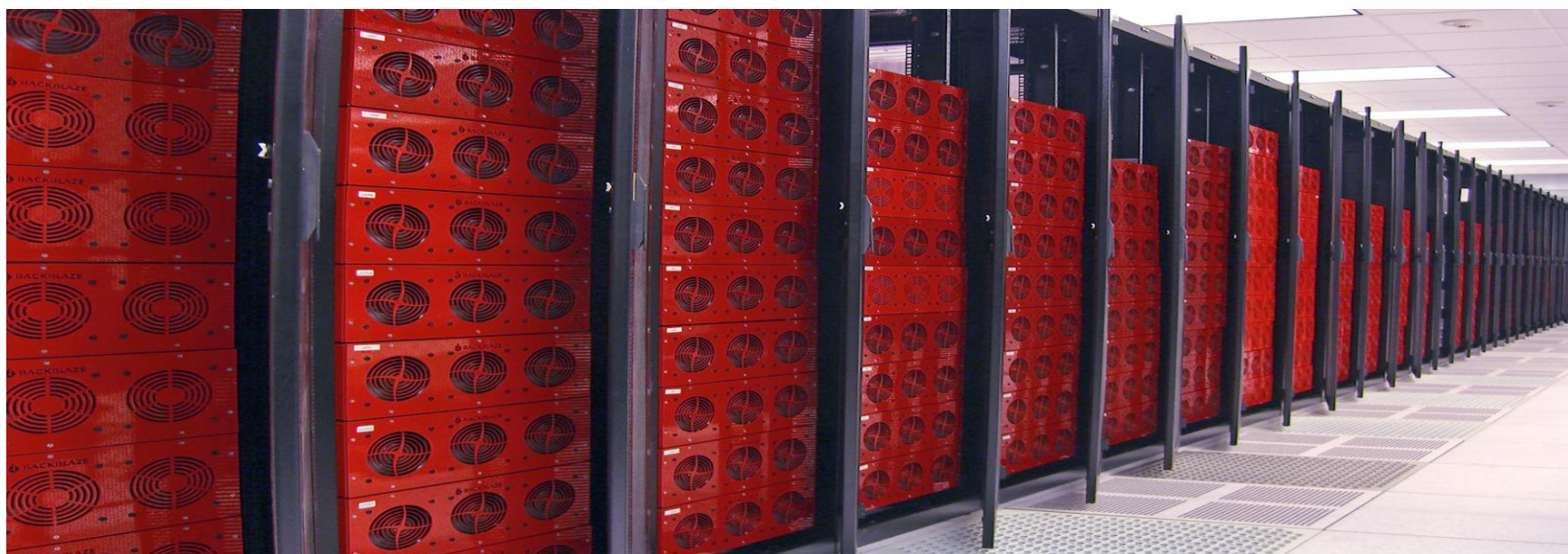




Files and Directories



Unit objectives

After completing this unit, you will learn to:

- Copy Files
- Move Files
- Create symbolic or hard link
- View file content with cat, pg and more
- Perform word counts
- Use head and tail command

Copying files

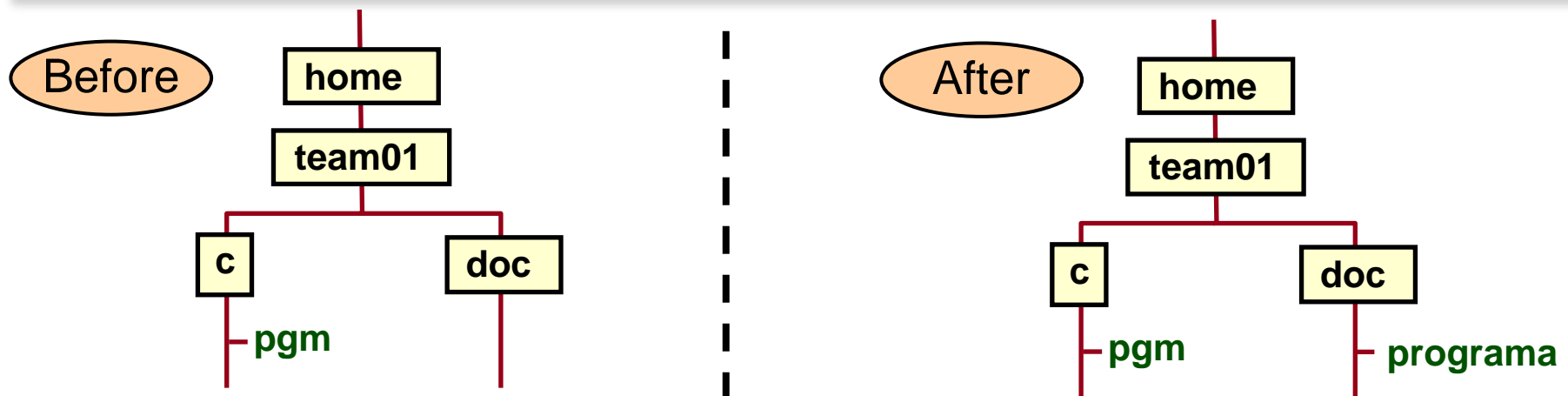
- Syntax:

```
cp source target
```

```
cp file1 file2 ... target_dir
```

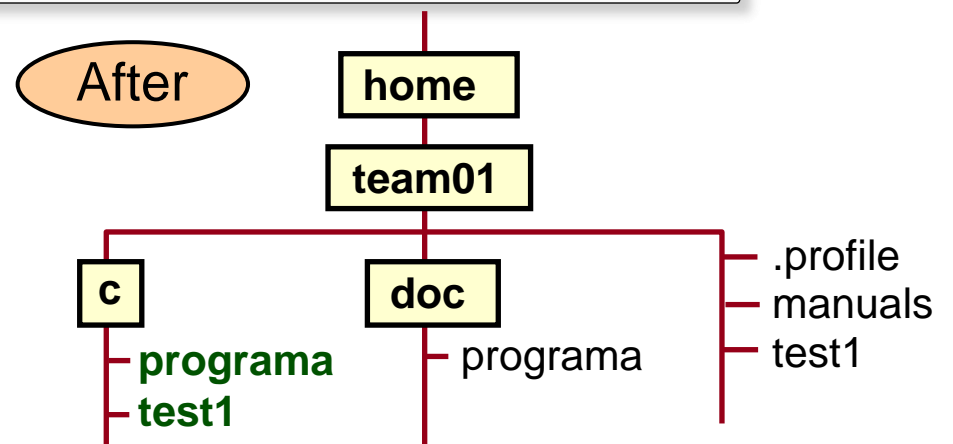
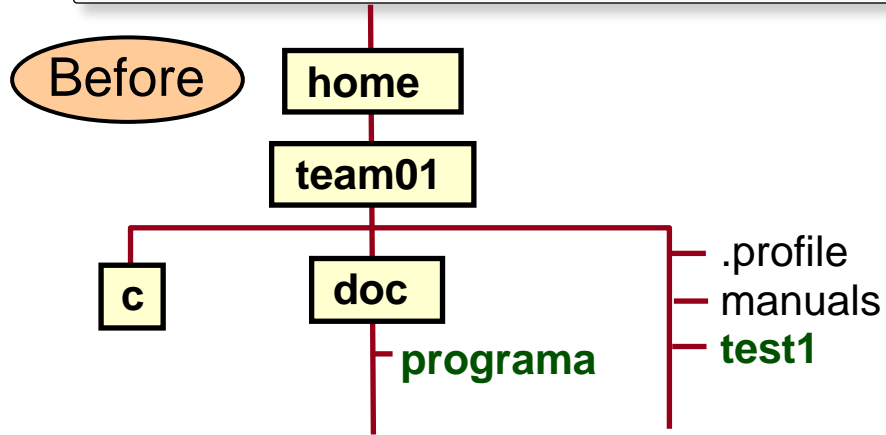
- To copy the file `/home/team01/c/pgm` to `/home/team01/doc` and name it `programa`:

```
$ pwd
/home/team01/doc
$ cp /home/team01/c/pgm programa
```

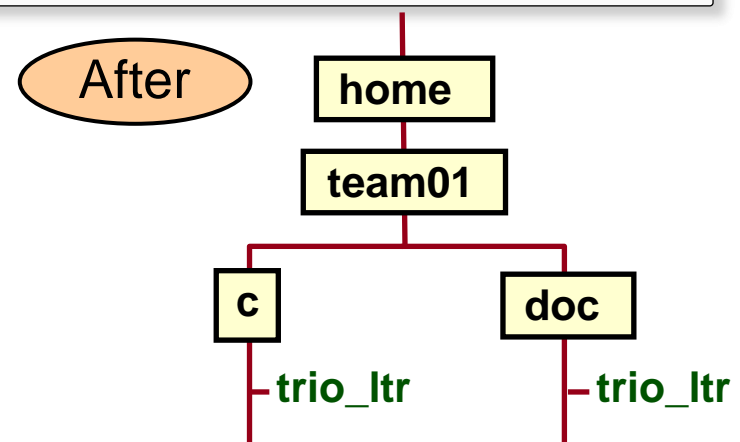
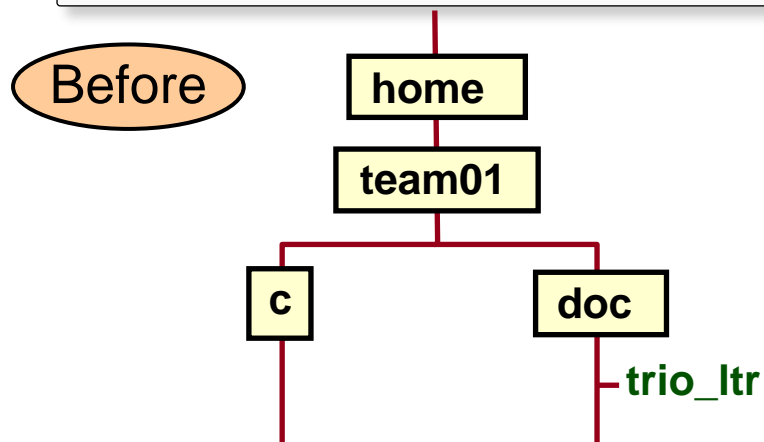


cp examples

```
$ cd /home/team01  
$ cp doc/programa test1 c
```



```
$ cd /home/team01/doc  
$ cp trio_ltr ../c
```



Moving and renaming files

- Syntax:

```
mv source target
```

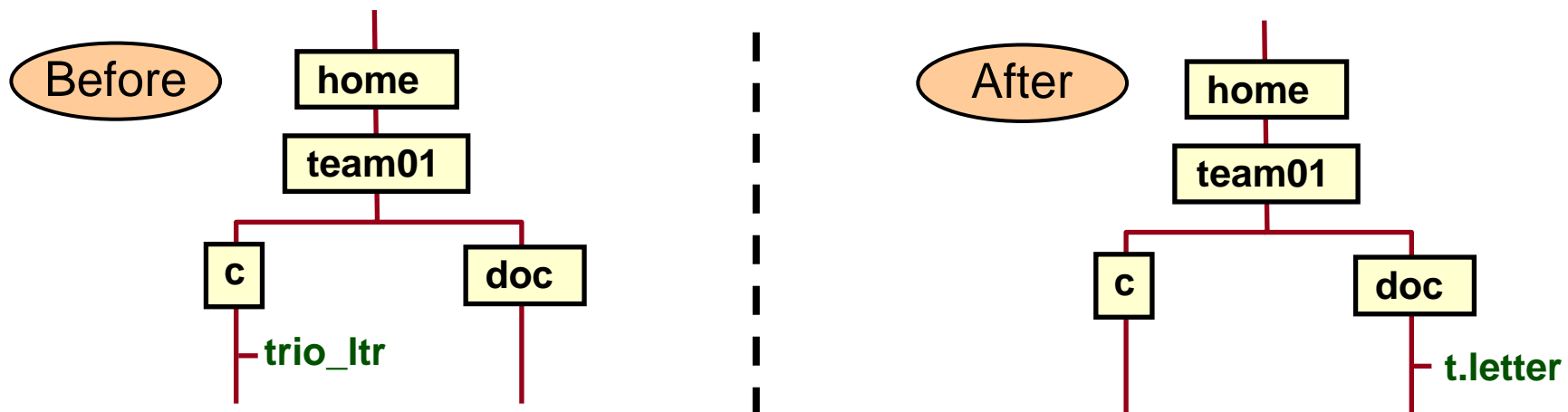
```
mv file1 file2 ... target_dir
```

- To move and rename the file `/home/team01/c/trio_ltr` to `/home/team01/doc/t.letter`

```
$ pwd
```

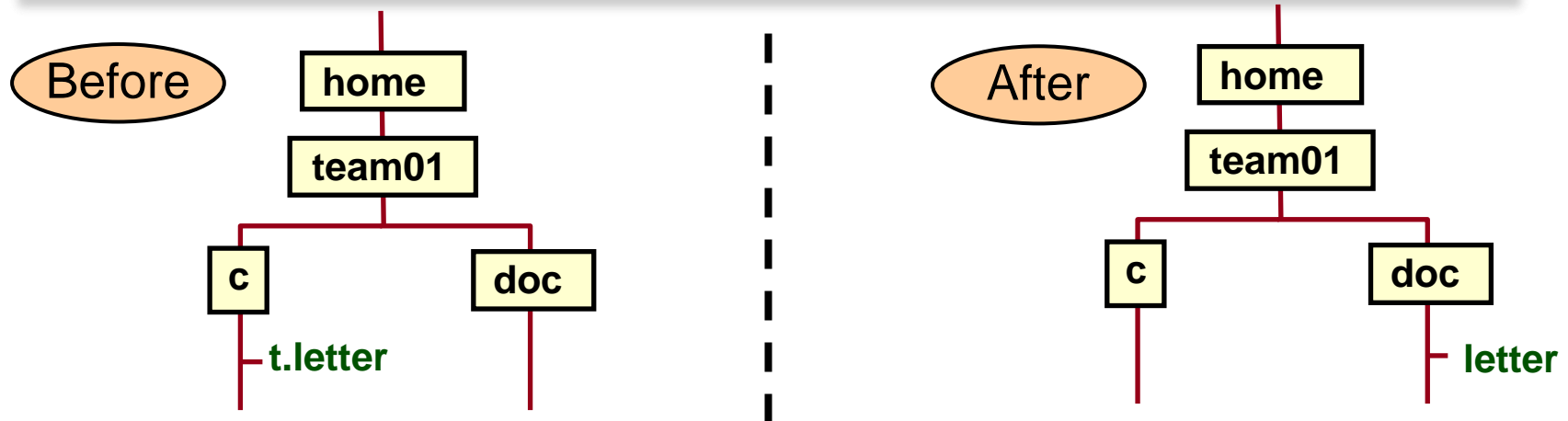
```
/home/team01/c
```

```
$ mv trio_ltr /home/team01/doc/t.letter
```

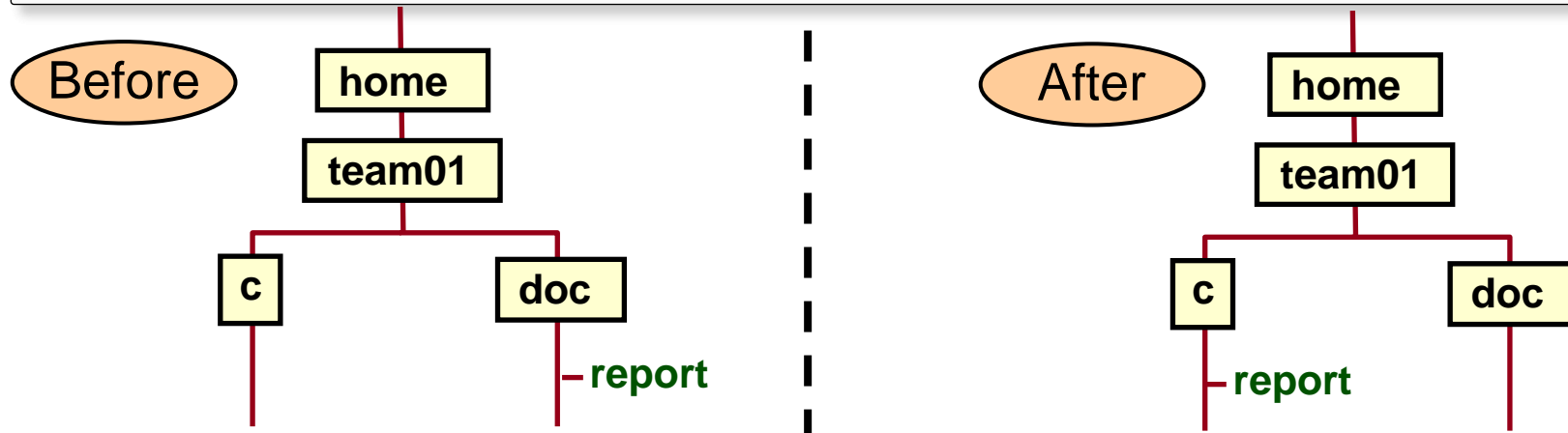


mv examples

```
$ cd /home/team01/c  
$ mv t.letter ../doc/letter
```



```
$ cd /home/team01/c  
$ mv ../doc/report .
```



Listing file contents

- Syntax:

```
cat file
```

```
$ cat walrus
```

```
"The time has come," the Walrus said,  
"To talk of many things:  
Of shoes - and ships - and sealing wax -  
Of cabbages - and kings -  
And why the sea is boiling hot -  
And whether pigs have wings."
```

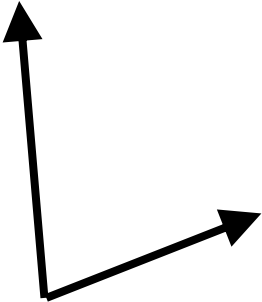
```
From The Walrus And The Carpenter  
by Lewis Carroll (1871)
```

Displaying files

- Syntax: `pg file`
`more file`

```
$ pg walrus
"The time has come," the Walrus said,
"To talk of many things:
Of shoes - and ships - and sealing wax -
Of cabbages - and kings -
And why the sea is boiling hot -
: <Enter>
```

One page
at a time



```
$ more walrus
"The time has come," the Walrus said,
"To talk of many things:
Of shoes - and ships - and sealing wax -
Of cabbages - and kings -
And why the sea is boiling hot -
walrus (51%) <Enter>
```


wc command

- The `wc` command counts the number of lines, words, and bytes in a named file

- Syntax:

```
wc [-c] [-l] [-w] filename
```

- Options:

- `-c` Counts the number of bytes
 - `-l` Counts lines
 - `-w` Counts words

- Example:

```
$ wc walrus
```

9

51

253 walrus

↑
Lines

↑
Words

↑
Characters

head command

- The `head` command display first part of files
- Syntax:
`head [options] filename`
- Options:
 - `#` number of lines to print
 - `-c #` number of characters/bytes to print
- Example:

```
$ head -5 /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
```

tail command

- The `tail` command display last part of files
- Syntax:
`tail [options] filename`
- Options:
 - `#` number of lines to print
 - `-c #` number of characters/bytes to print
 - `-f` follow an output / continuous monitor output
- Example:

```
$ tail -2 /etc/passwd  
tcpdump:x:72:72:::/:/sbin/nologin  
student:x:1000:1000:student:/home/student:/bin/bash
```

```
$ tail -2 /var/log/messages  
< output trimmed >
```

Unit summary

Having completed this unit, you should be able to:

- Copy Files
- Move Files
- Create symbolic or hard link
- View file content with cat, pg and more
- Perform word counts
- Use head and tail command