

# Skills 01: Secure CoPy (SCP) Copying data

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# Normal CoPy (CP)

- Copy a file **on this machine** to another location **on this machine**
- The file could be a directory
  - Cp -r
  - “Recursive” copy
- Same as MoVe (MV) but leaves the original in place!

- Scp
- Rsync
  - Rsync SOURCE DEST
  - Rsync -azv SOURCE DEST
  - RSYNC -avz SOURCE/ DEST/
  - RSYNC -avz SOURCE DEST

# Copying Folders using SCP

- Scp → Can not copy folders
- ./mystufffolder/
- tar c ./myzippedfile.tar ./mystufffolder
- Scp myzippedfile.tar 10.238.102.1:/destination
- Ssh 10.238.102.1
- tar x /destination/myzippedfile.tar

# Copying Folders using SCP

- Scp → Can not copy folders
- ./mystufffolder/
- tar cz ./myzippedfile.tar.gz ./mystufffolder
- Scp myzippedfile.tar.gz 10.238.102.1:/destination
- Ssh 10.238.102.1
- tar xz /destination/myzippedfile.tar.gz

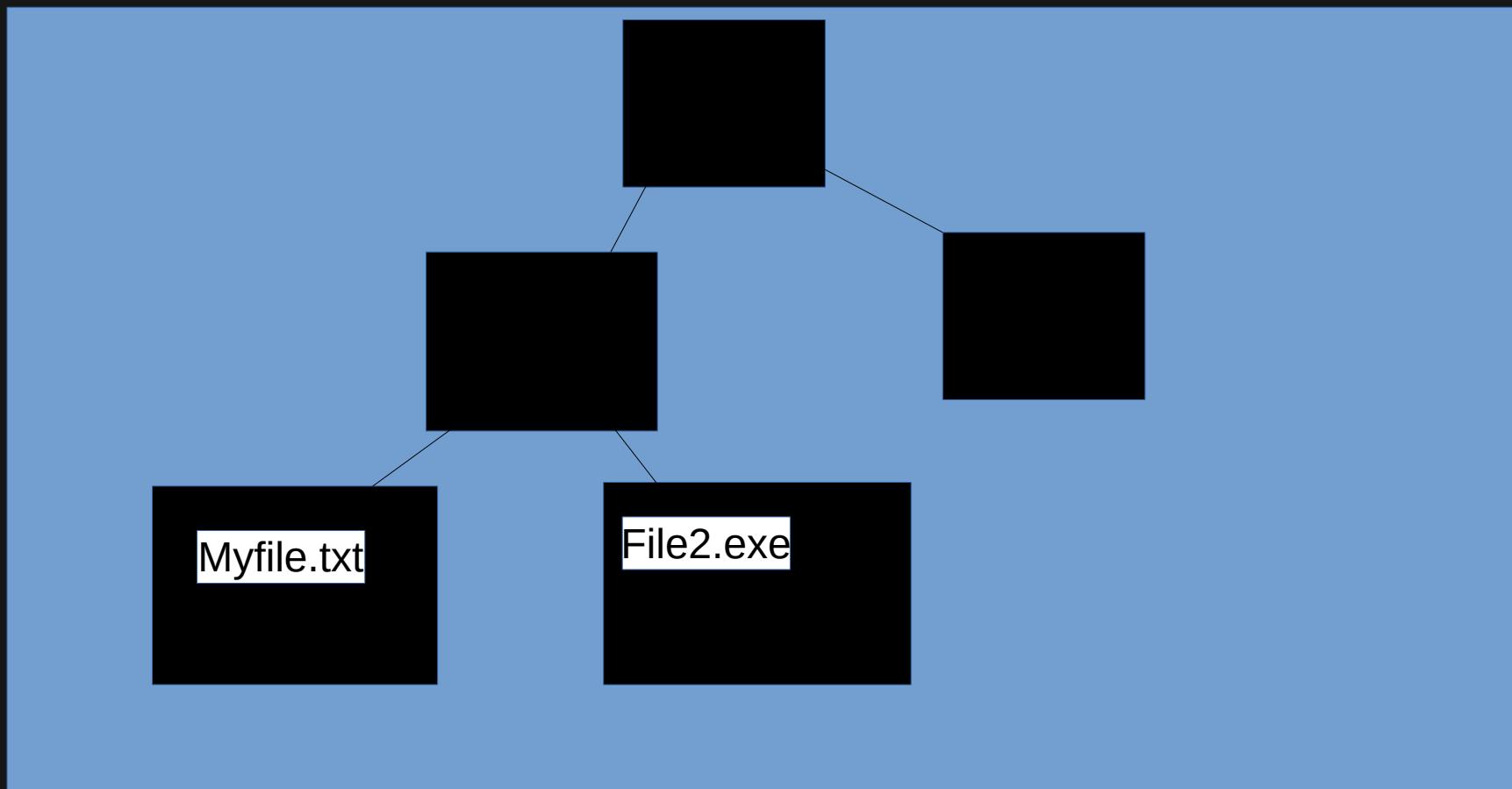
Compressing  
(zipping with  
gunzip) the tar

# Normal CoPy (CP)

```
riveale@localhost:~/tmpdir> touch myfile.txt
riveale@localhost:~/tmpdir> ls
myfile.txt
riveale@localhost:~/tmpdir> cp myfile.txt myfile2.txt
riveale@localhost:~/tmpdir> ls
myfile2.txt  myfile.txt
riveale@localhost:~/tmpdir> mkdir adirectory
riveale@localhost:~/tmpdir> cp myfile.txt adirectory/
riveale@localhost:~/tmpdir> ls
adirectory  myfile2.txt  myfile.txt
riveale@localhost:~/tmpdir> ls adirectory/
myfile.txt
riveale@localhost:~/tmpdir> █
```

# Normal Copy

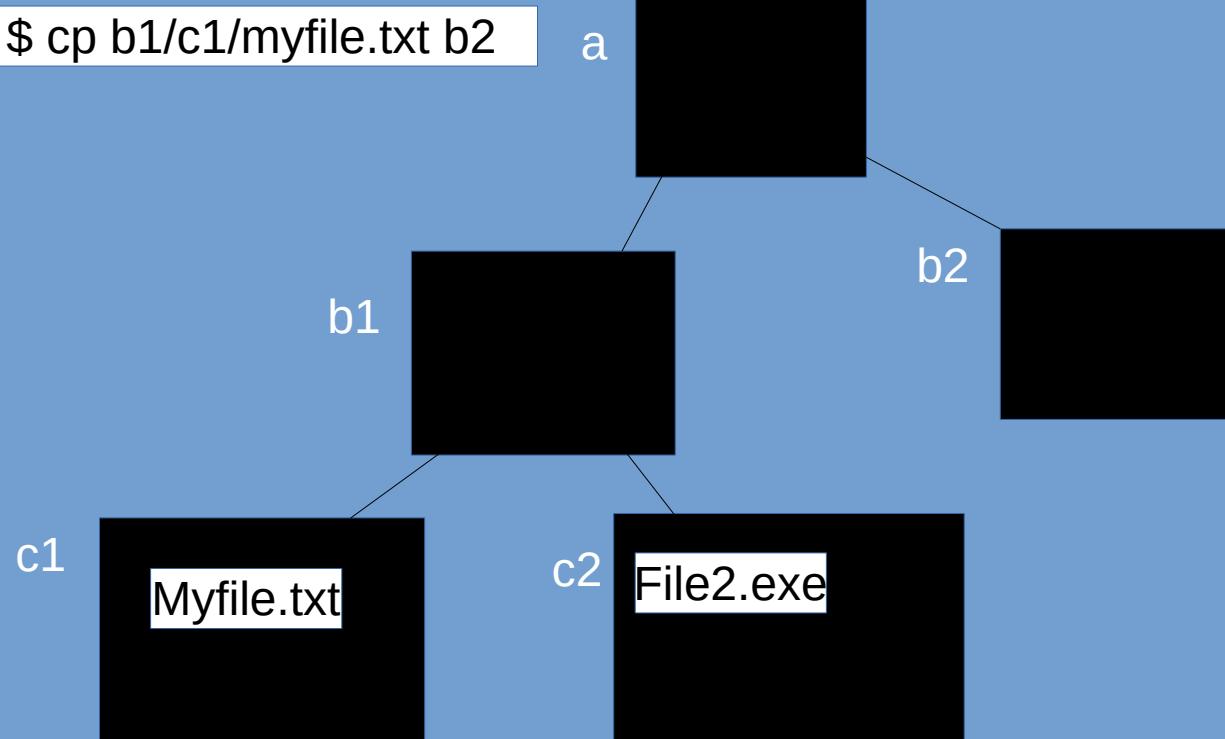
This Machine



# Normal Copy

This Machine

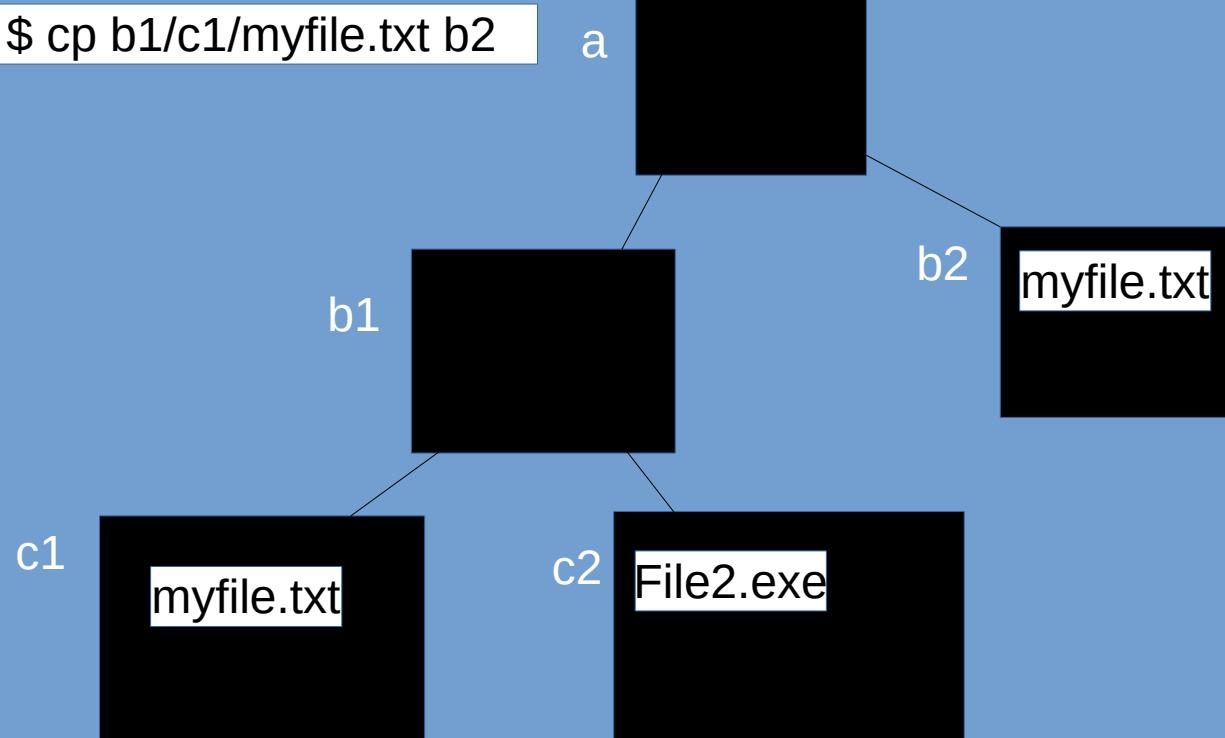
```
$ cp b1/c1/myfile.txt b2
```



# Normal Copy

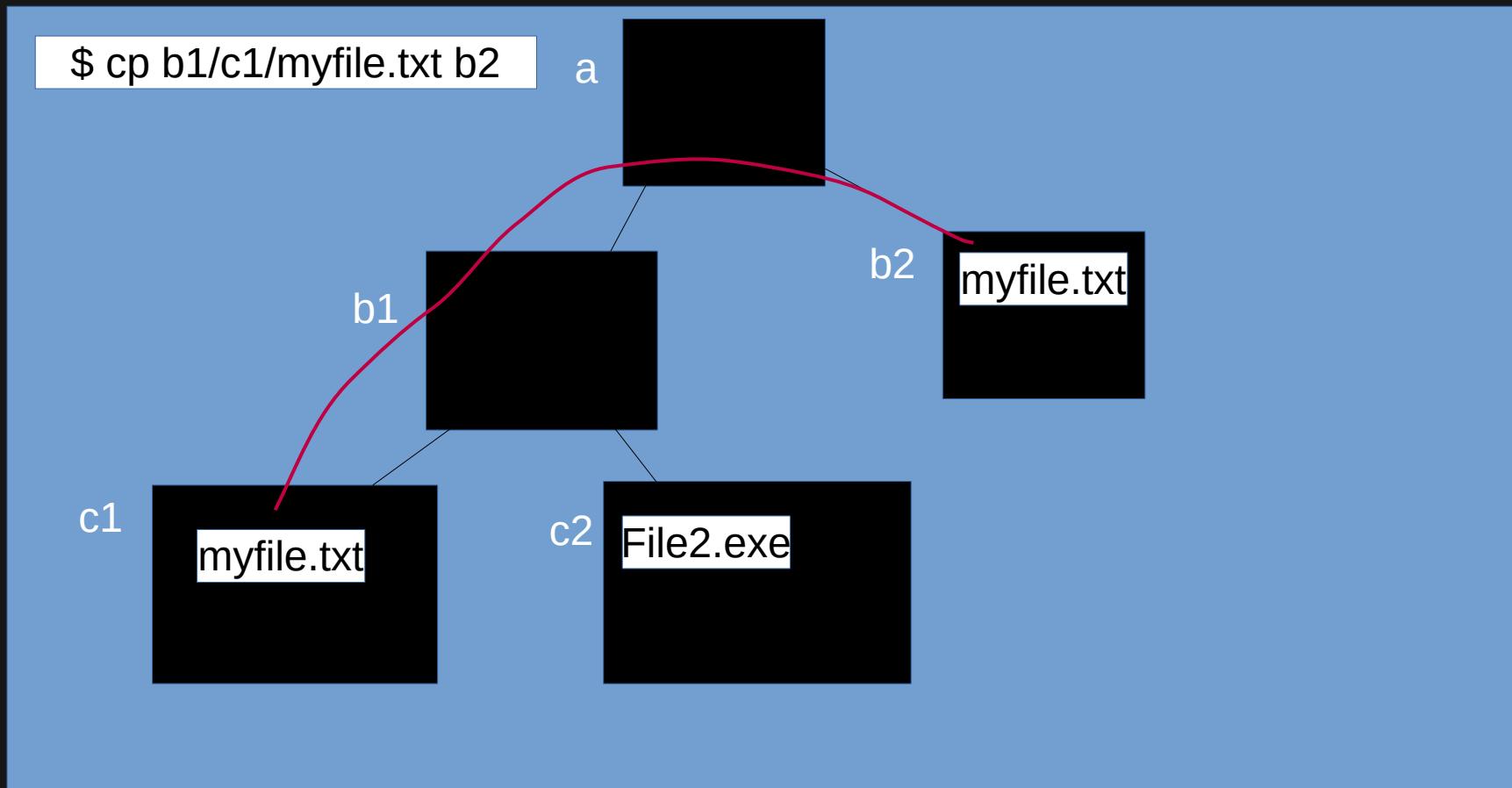
This Machine

```
$ cp b1/c1/myfile.txt b2
```



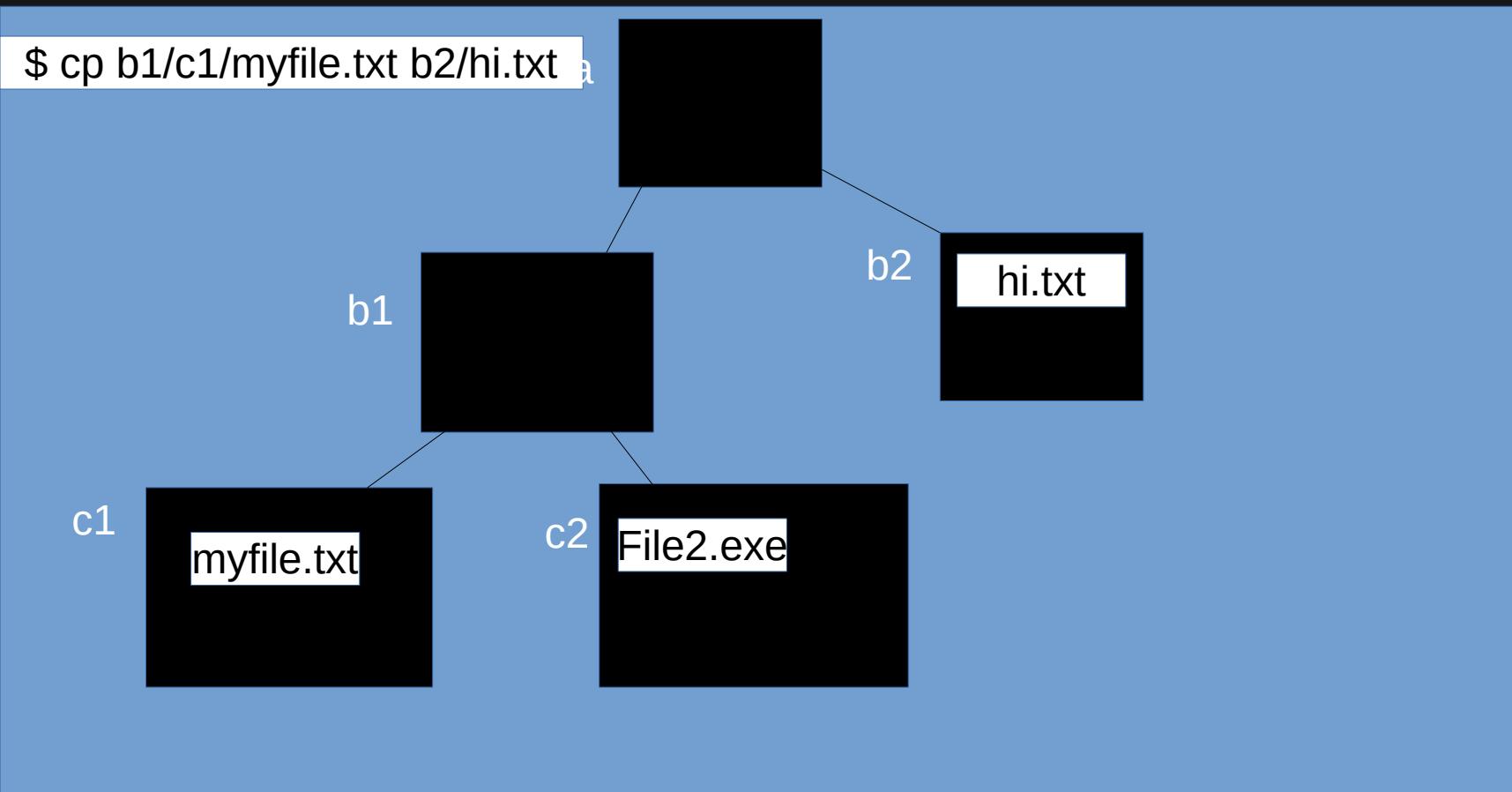
# Normal Copy

This Machine



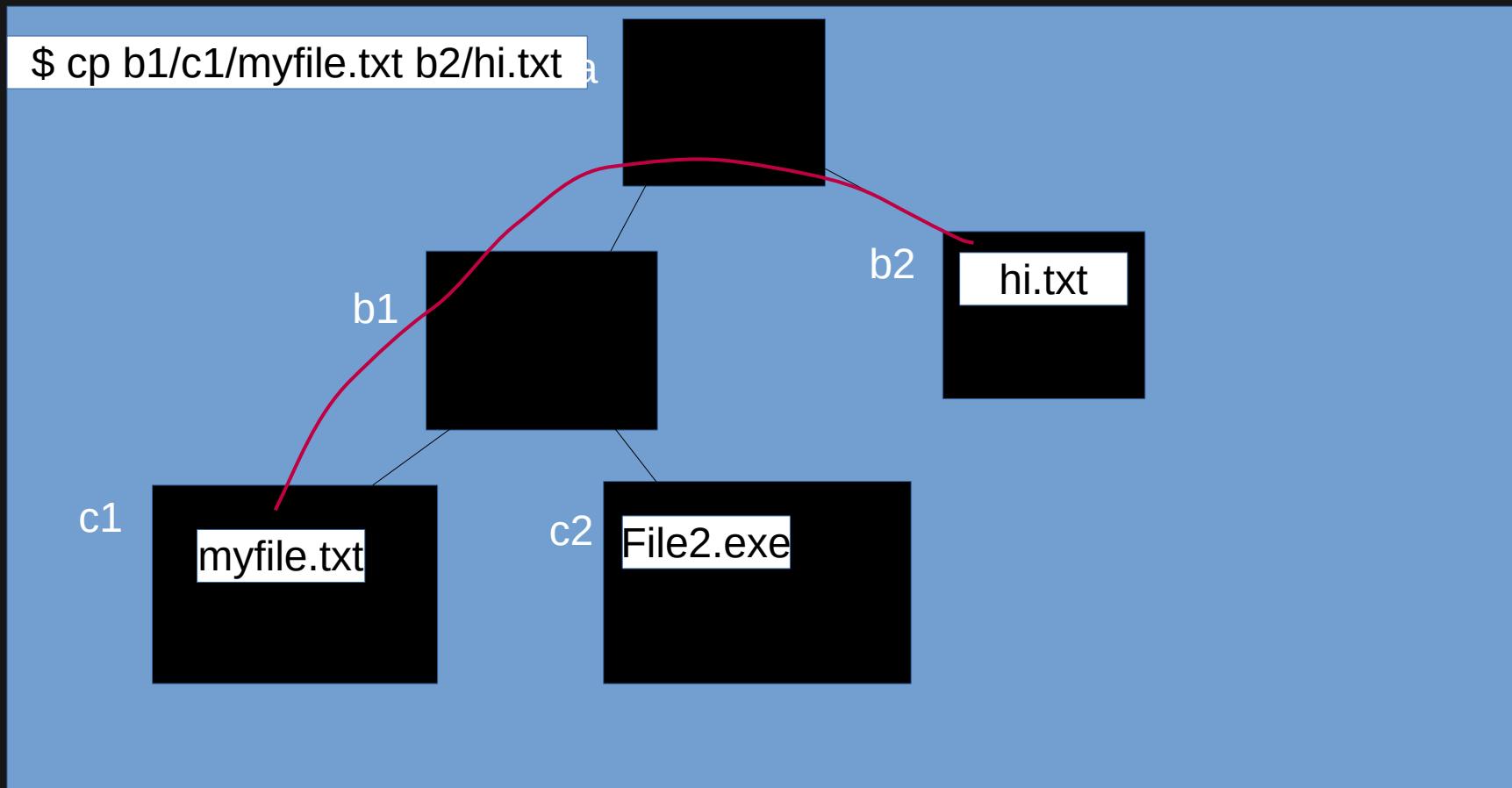
# Normal Copy

This Machine



# Normal Copy

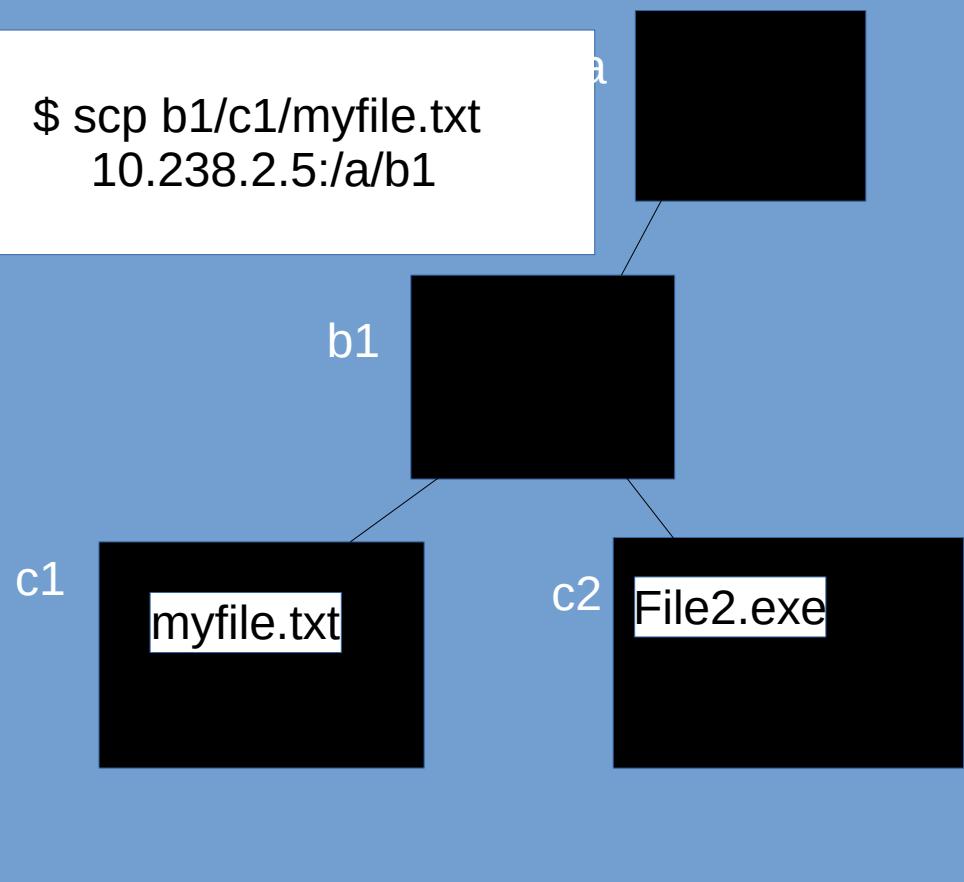
This Machine



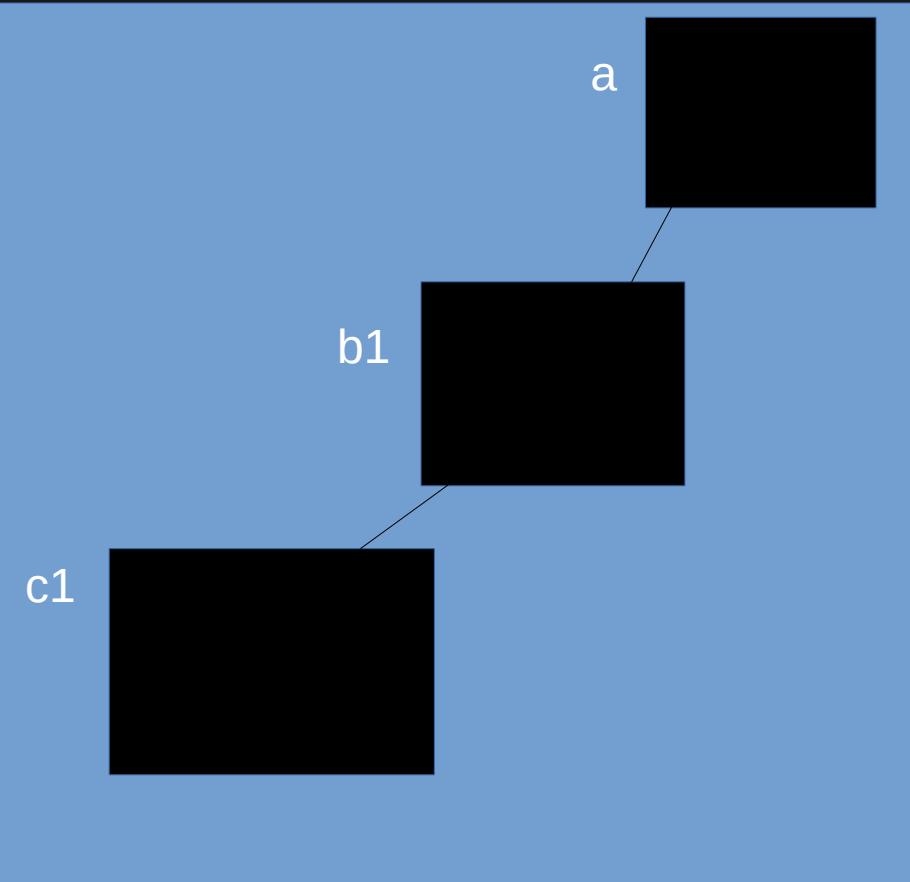
# Remote Copy (SCP)

This Machine

```
$ scp b1/c1/myfile.txt  
10.238.2.5:/a/b1
```



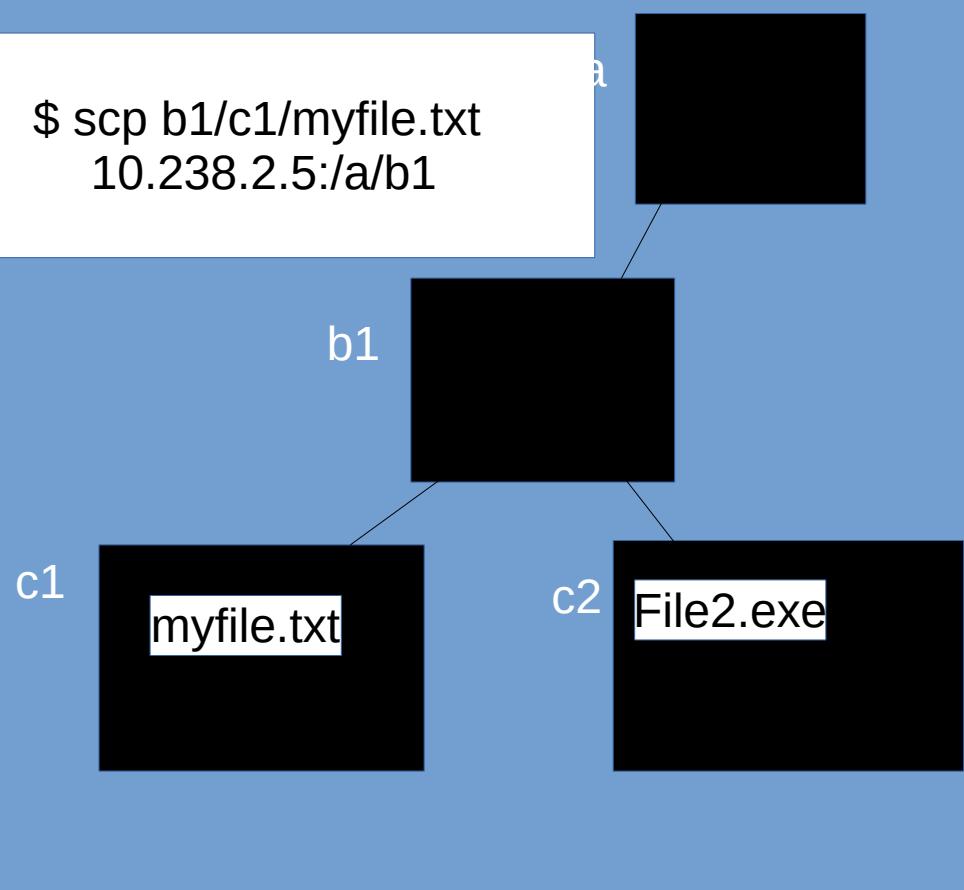
Another Machine (IP=10.238.2.5)



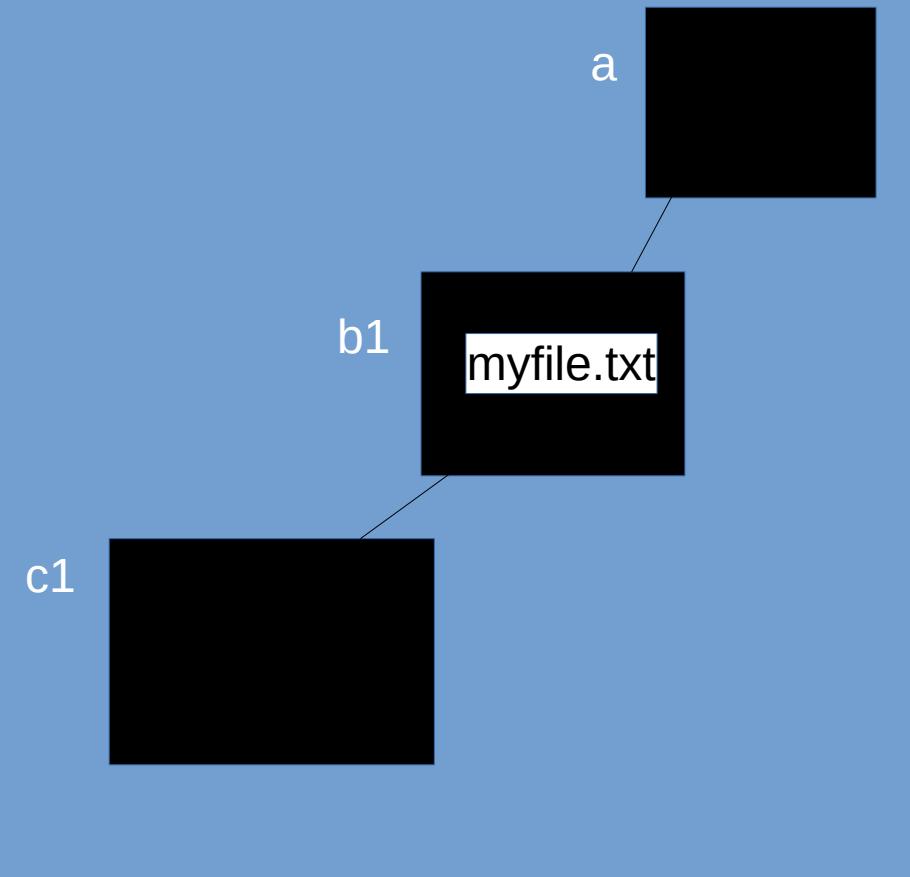
# Remote Copy (SCP)

This Machine

```
$ scp b1/c1/myfile.txt  
10.238.2.5:/a/b1
```



Another Machine (IP=10.238.2.5)



# Remote Copy (SCP)

This Machine

```
$ scp b1/c1/myfile.txt  
10.238.2.5:/a/b1
```

c1

b1

a

myfile.txt

c2

File2.exe

Another Machine (IP=10.238.2.5)

a

b1

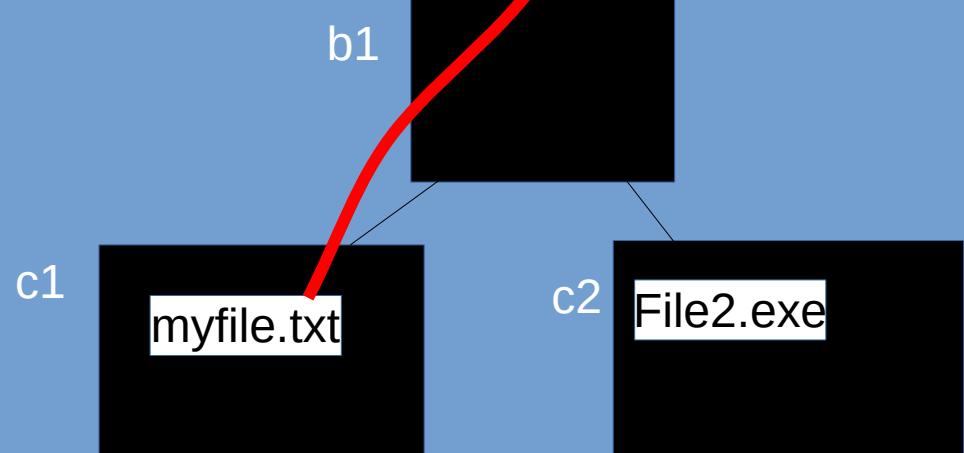
myfile.txt

c1

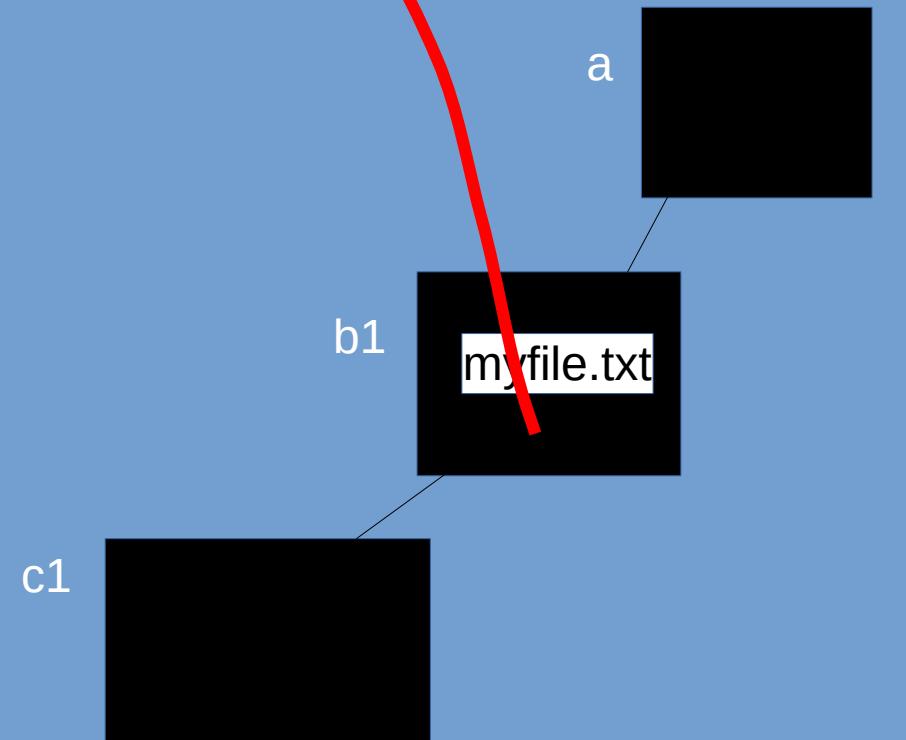
# Remote Copy (SCP)

This Machine

```
$ scp b1/c1/myfile.txt  
riveale@10.238.2.5:/a/b1
```



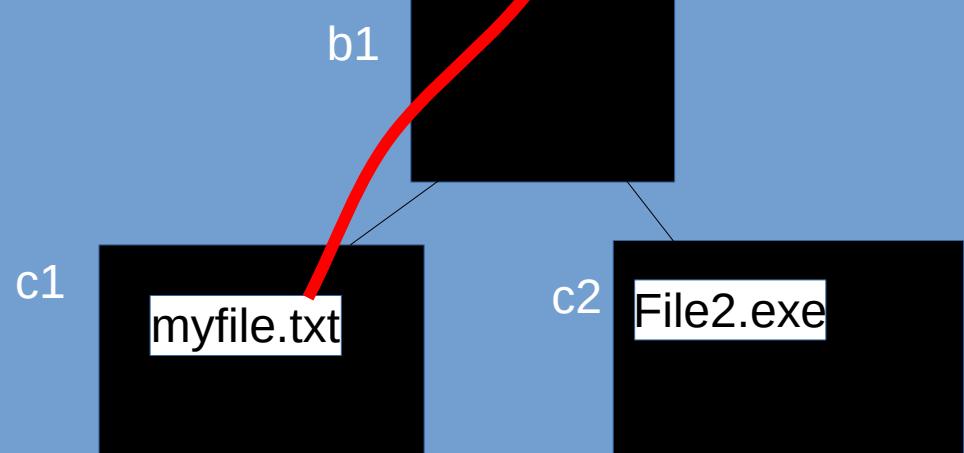
Another Machine (IP=10.238.2.5)



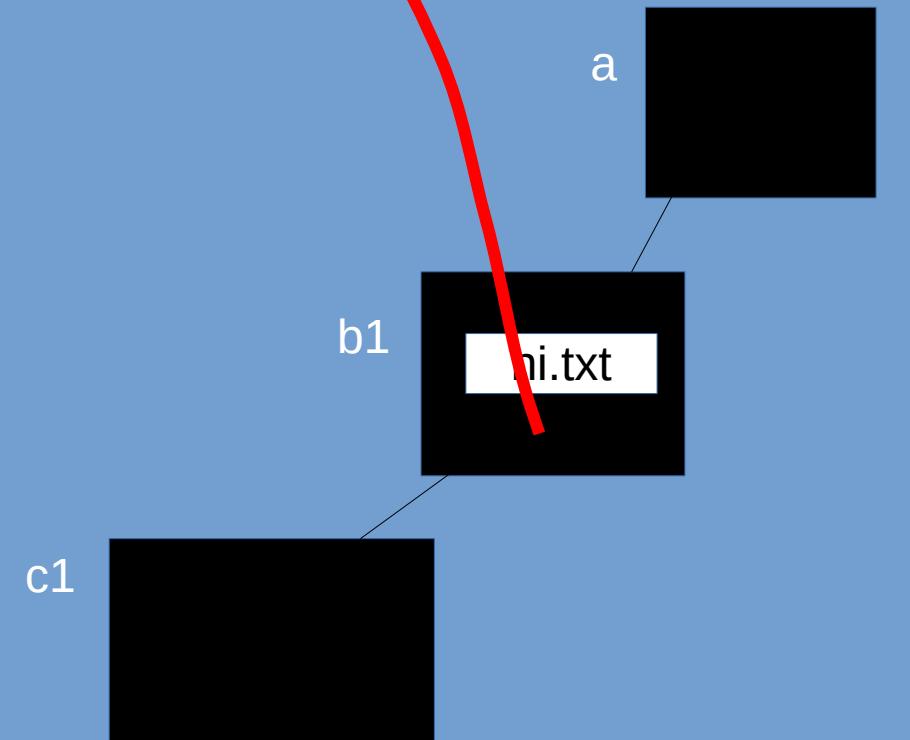
# Remote Copy (SCP)

This Machine

```
$ scp b1/c1/myfile.txt  
driveale@10.238.2.5:/a/b1/hi.txt
```

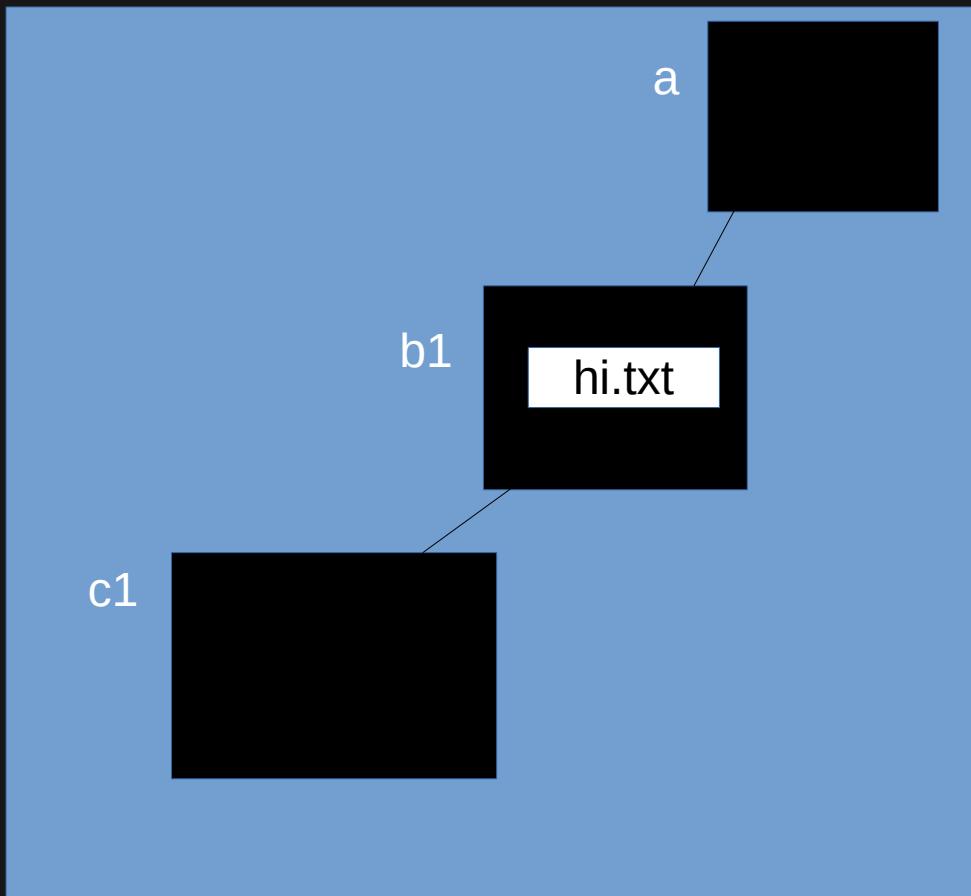


Another Machine (IP=10.238.2.5)



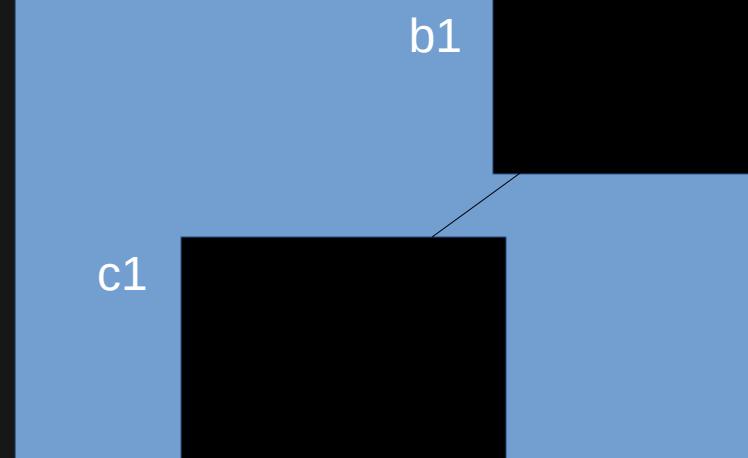
# Remote Copy (SCP)

Another Machine (IP=10.238.2.5)



This Machine

```
$ scp  
riveale@10.238.2.5:/a/b1/hi.txt  
/a/b1/myfile.txt
```



# Remote Copy (SCP)

