

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

Compressing
(zipping with
gunzip) the tar

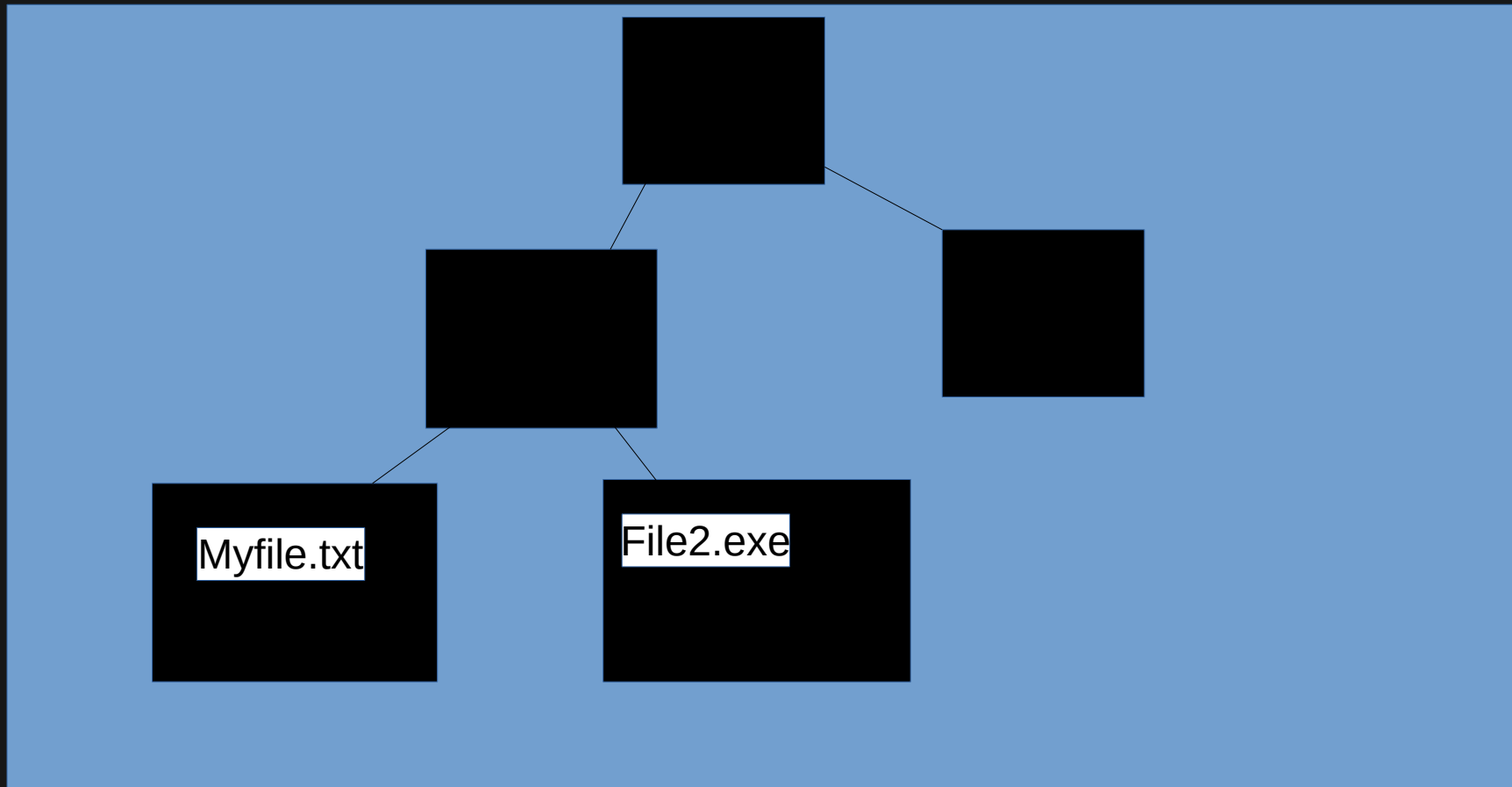
- ./mystufffolder/
- tar cz ./myzippedfile.tar.gz ./mystufffolder
- Scp myzippedfile.tar.gz 10.238.102.1:/destination
- Ssh 10.238.102.1
- tar xz /destination/myzippedfile.tar.gz

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

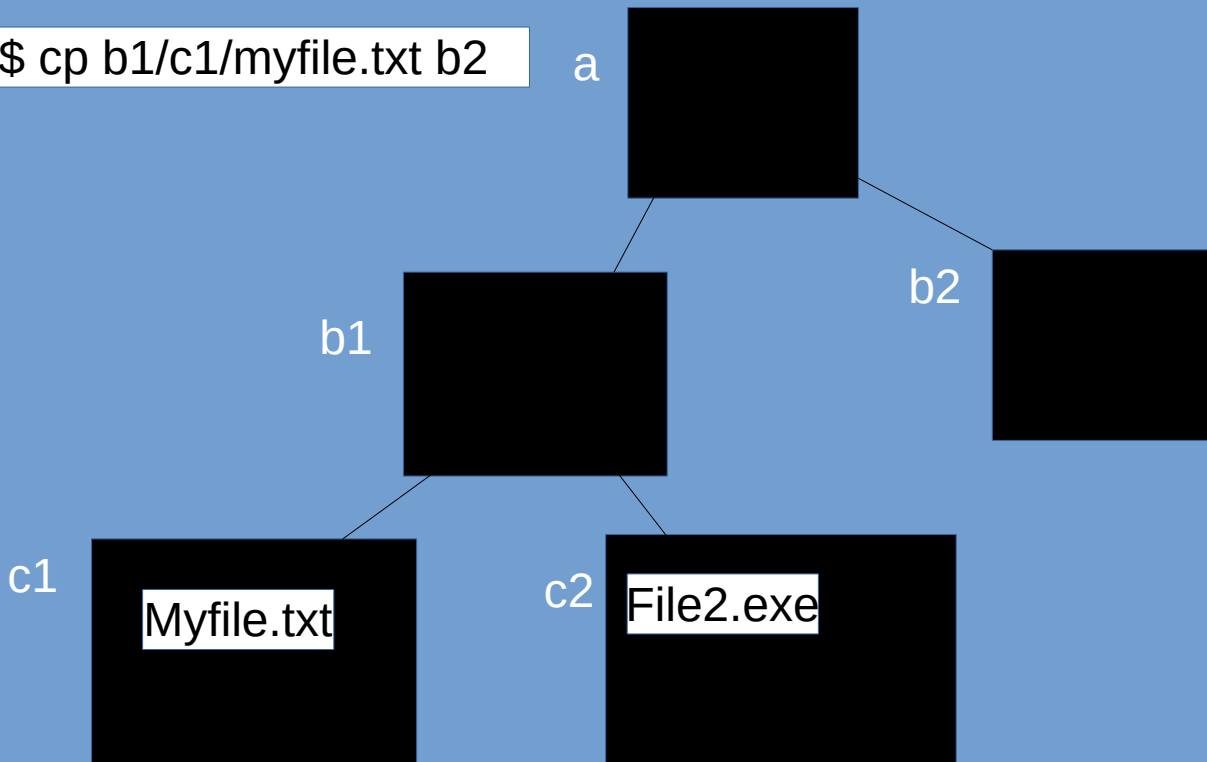
This Machine



Normal Copy

This Machine

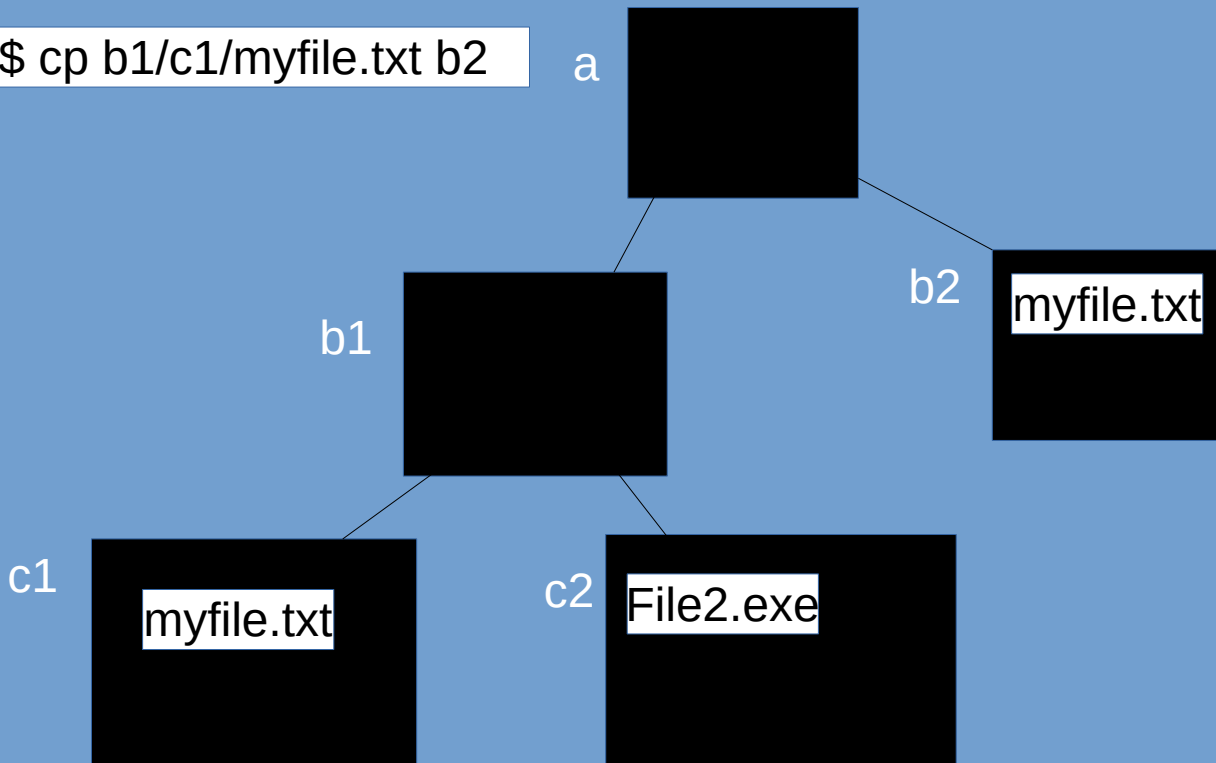
```
$ cp b1/c1/myfile.txt b2
```



Normal Copy

This Machine

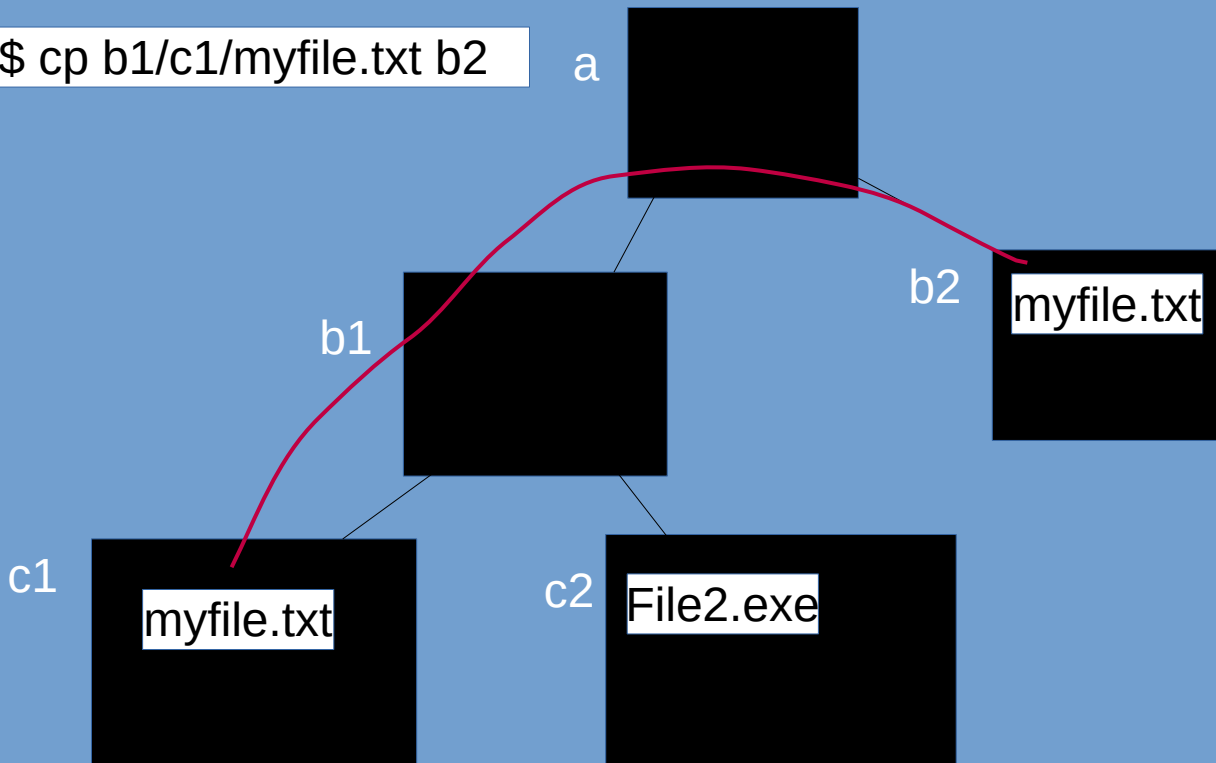
```
$ cp b1/c1/myfile.txt b2
```



Normal Copy

This Machine

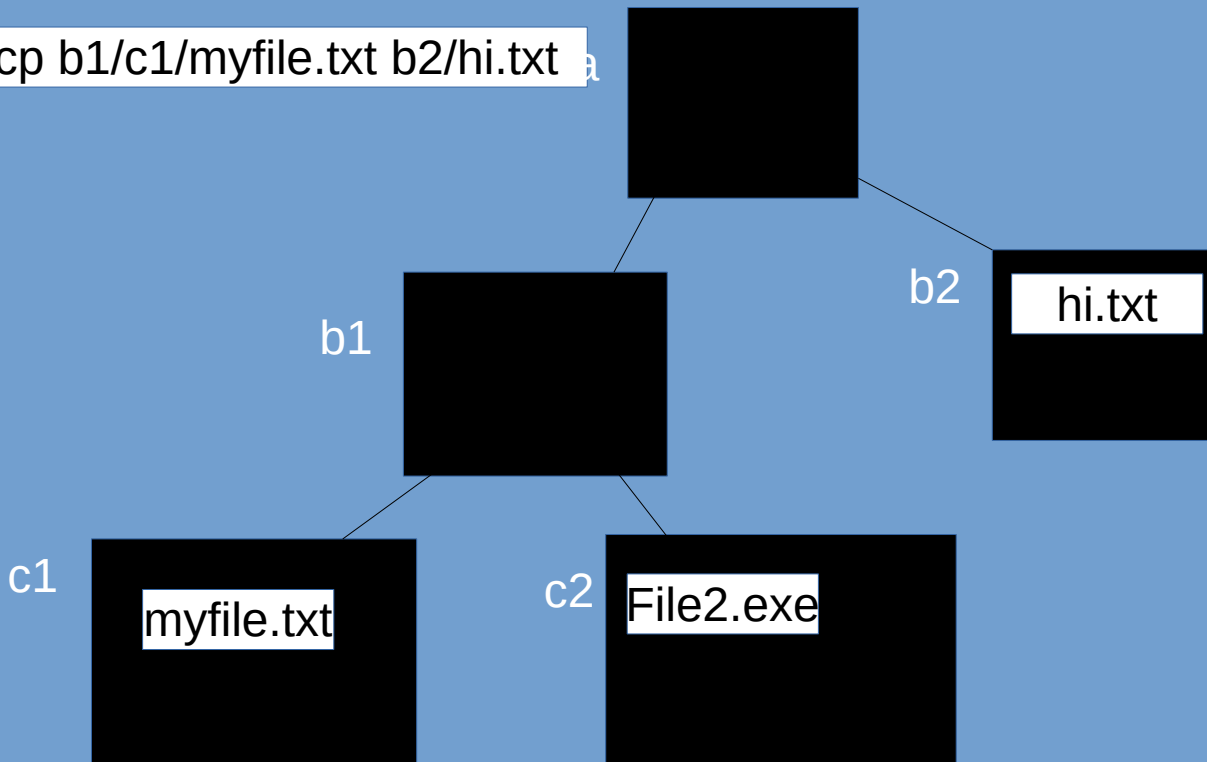
```
$ cp b1/c1/myfile.txt b2
```



Normal Copy

This Machine

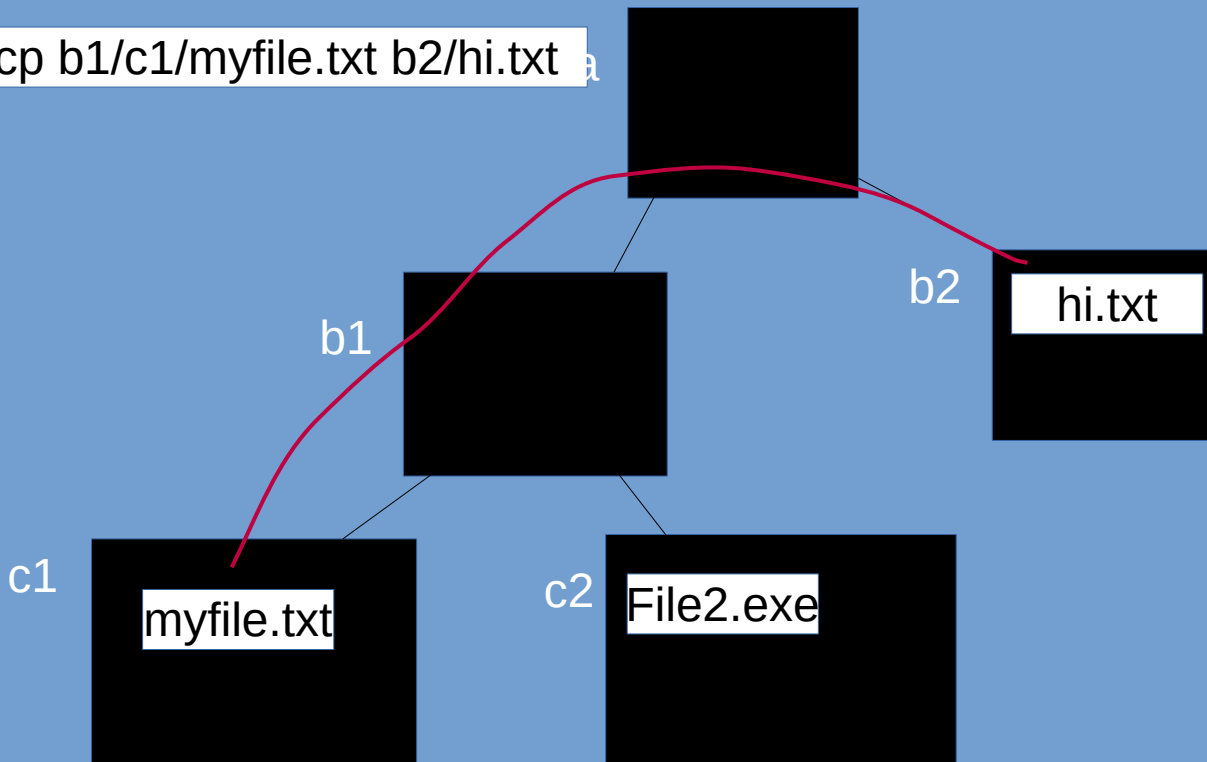
```
$ cp b1/c1/myfile.txt b2/hi.txt
```



Normal Copy

This Machine

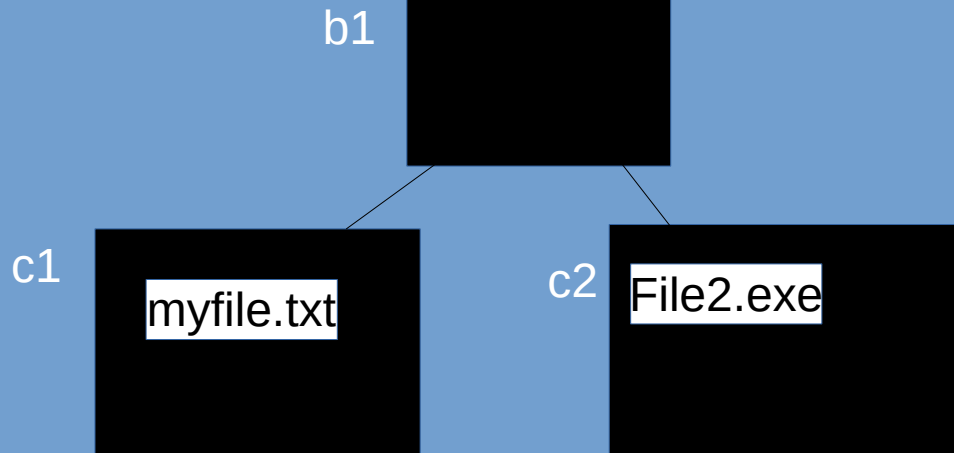
```
$ cp b1/c1/myfile.txt b2/hi.txt
```



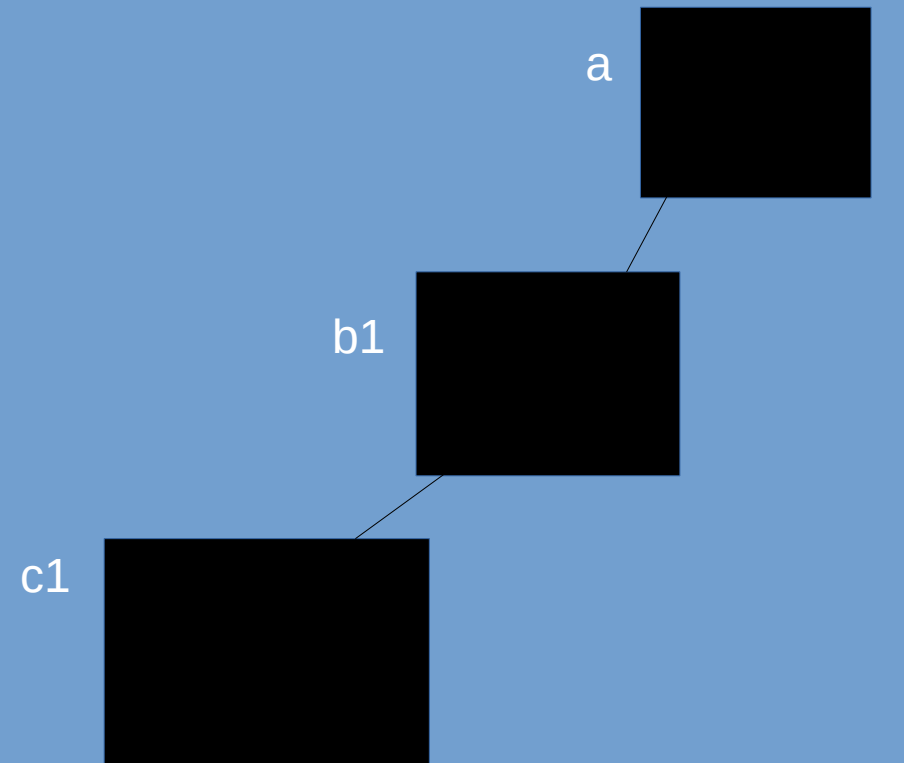
Remote Copy (SCP)

This Machine

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



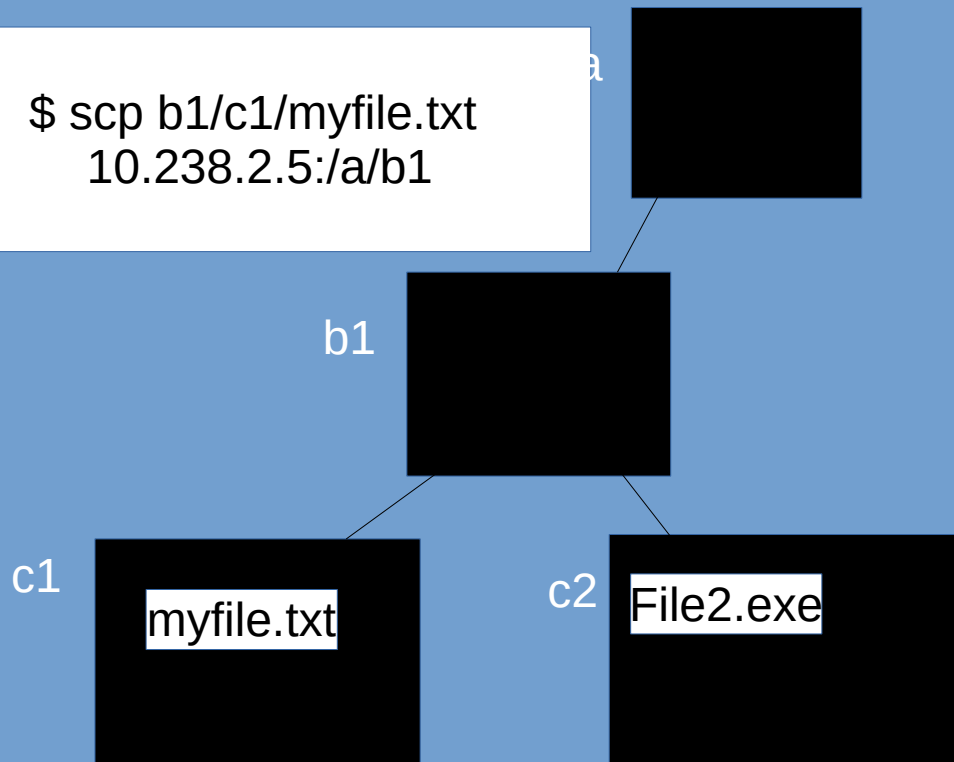
Another Machine (IP=10.238.2.5)



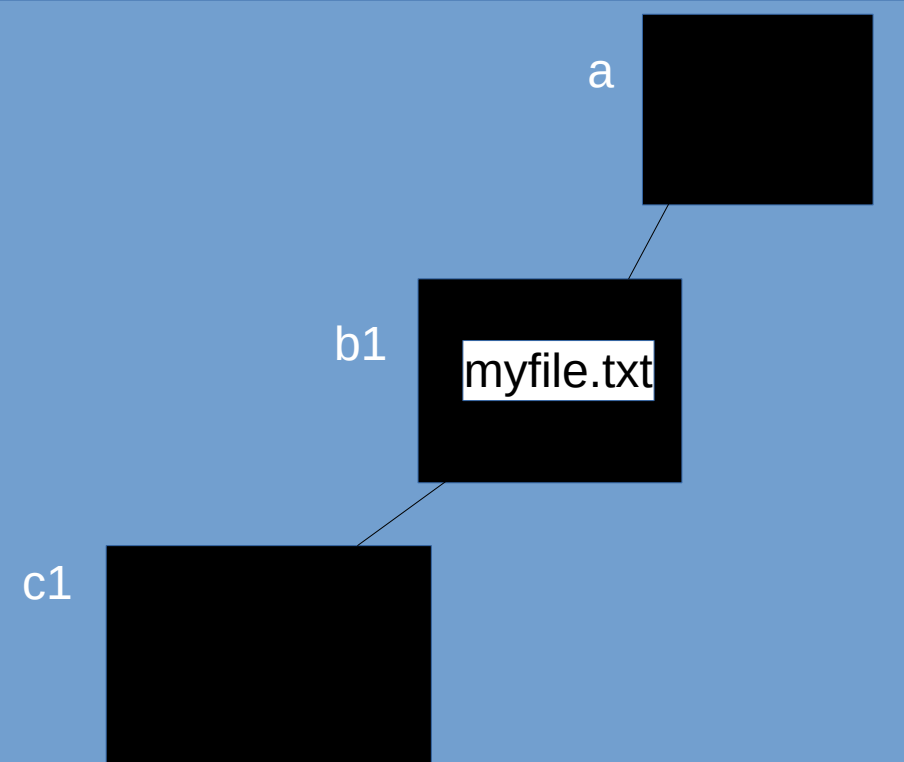
Remote Copy (SCP)

This Machine

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



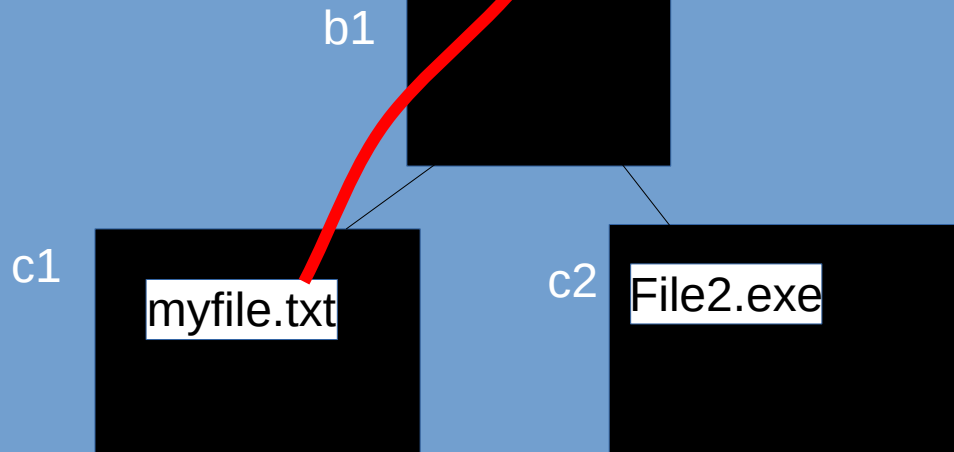
Another Machine (IP=10.238.2.5)



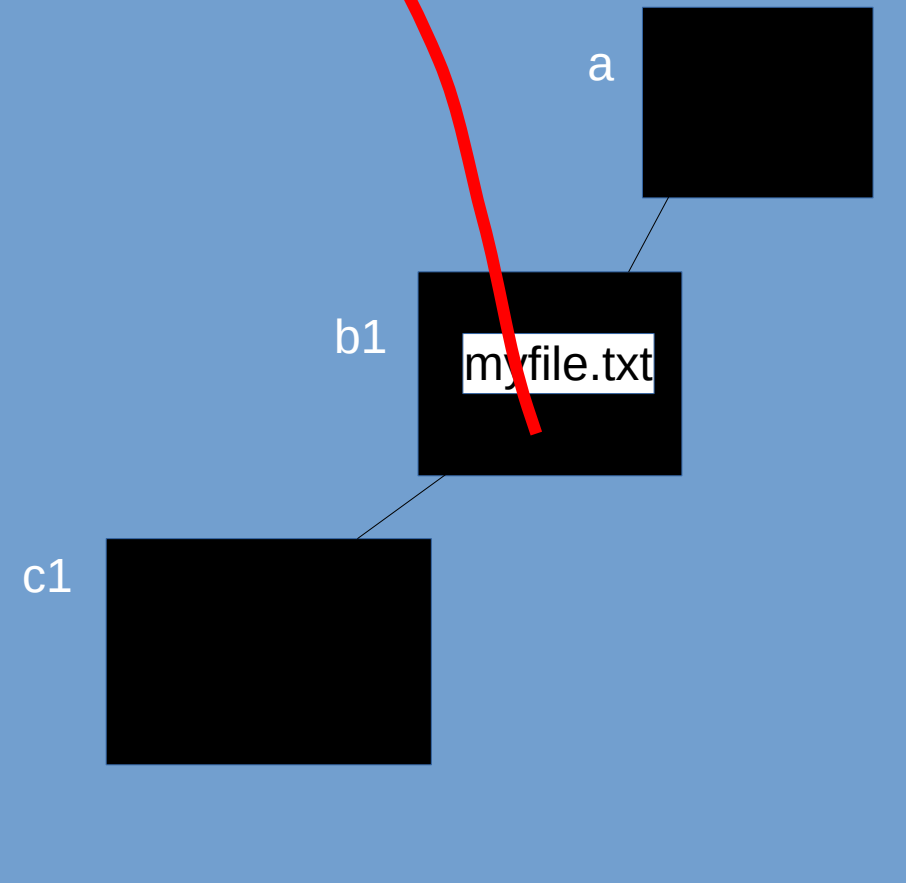
Remote Copy (SCP)

This Machine

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



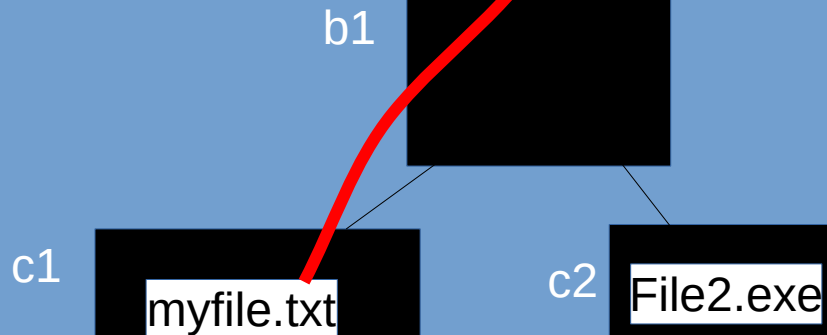
Another Machine (IP=10.238.2.5)



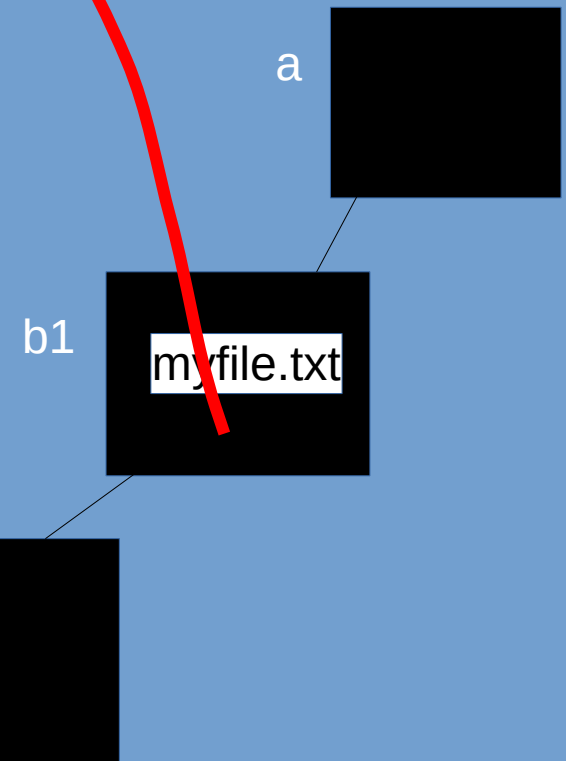
Remote Copy (SCP)

This Machine

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

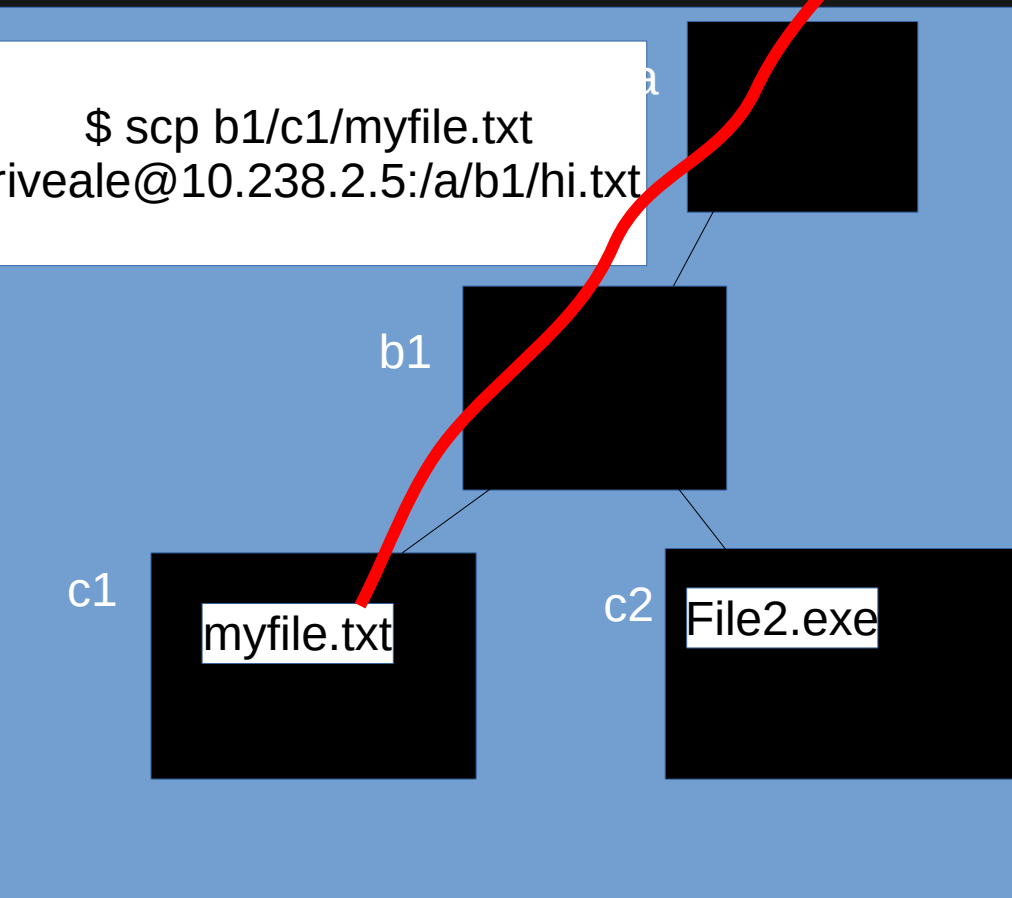


Another Machine (IP=10.238.2.5)

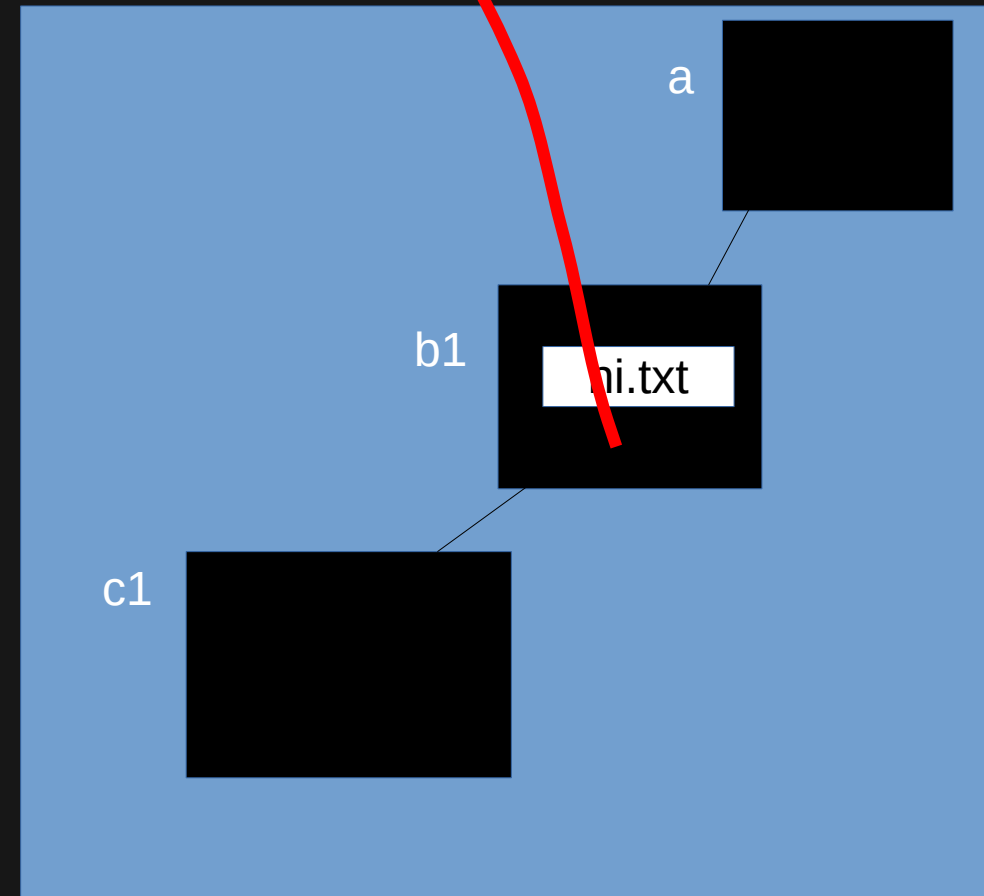


Remote Copy (SCP)

This Machine

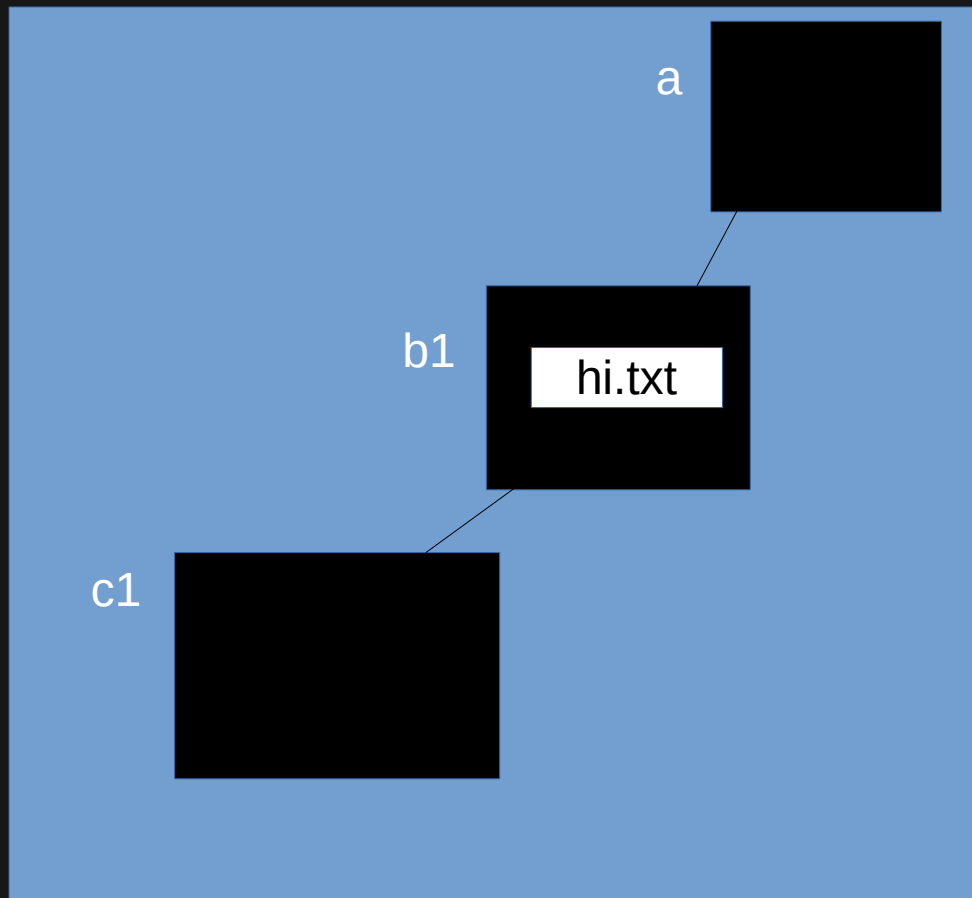


Another Machine (IP=10.238.2.5)

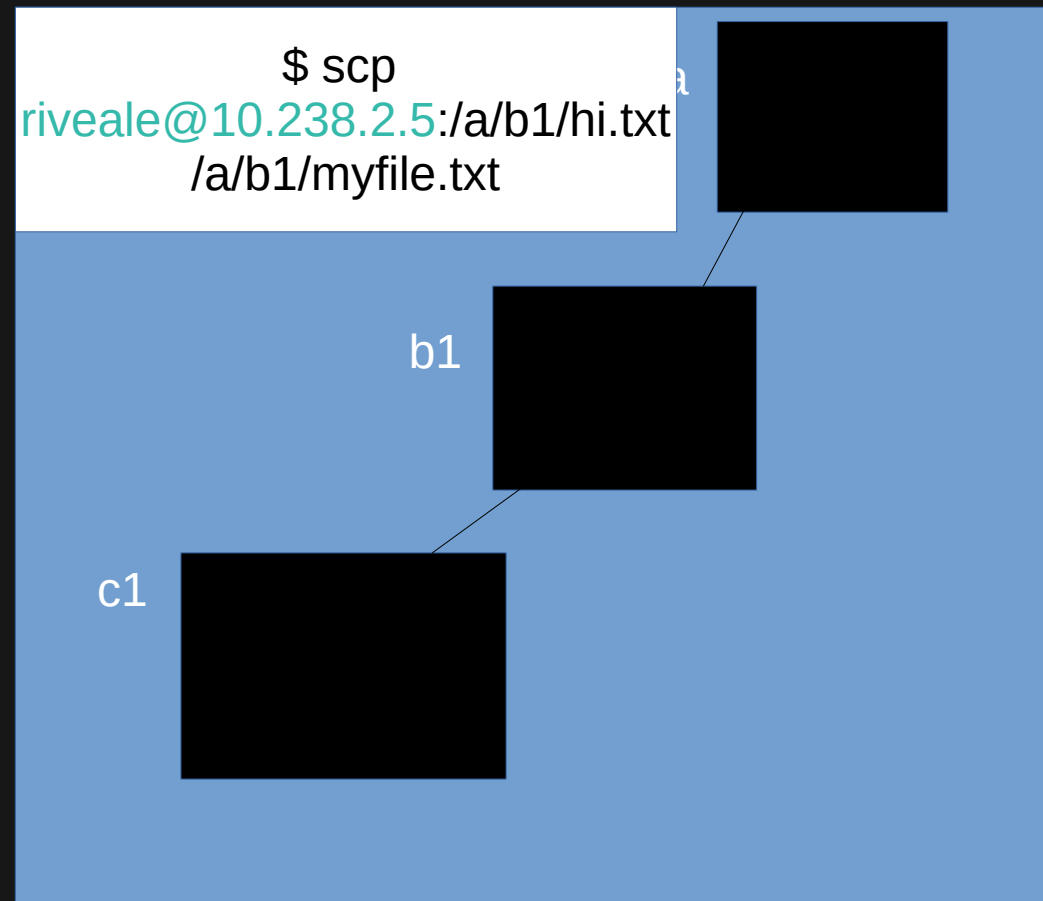


Remote Copy (SCP)

Another Machine (IP=10.238.2.5)

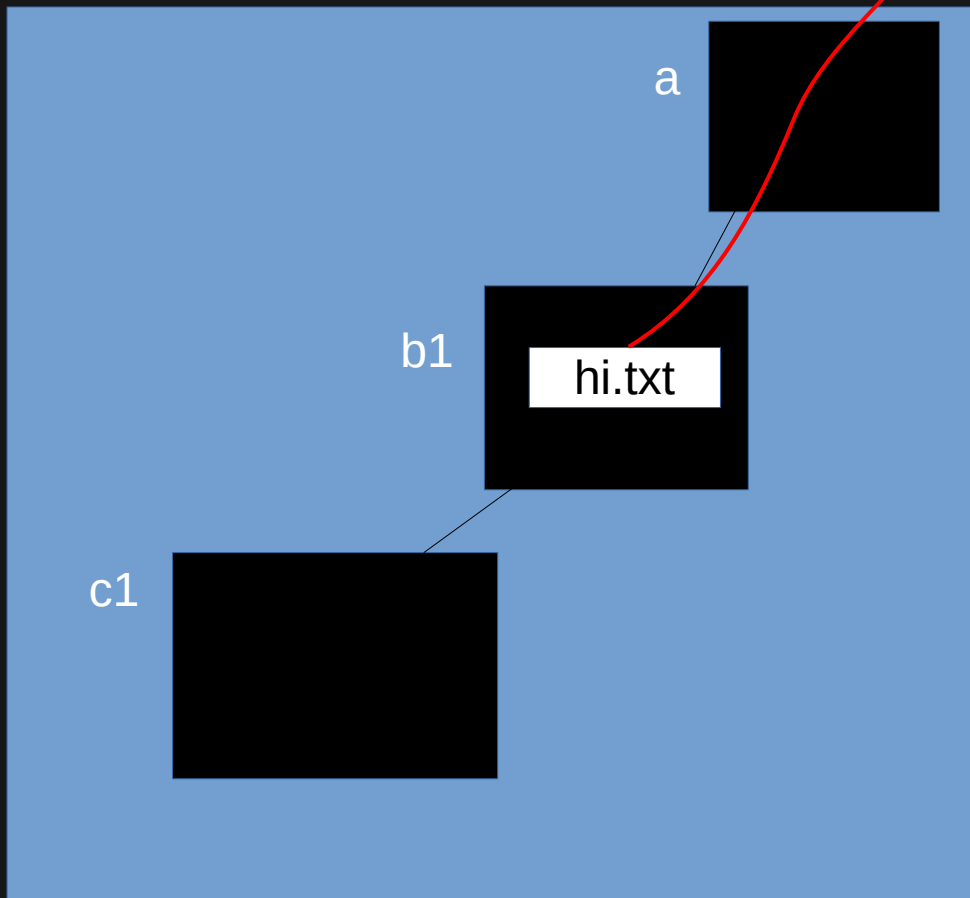


This Machine



Remote Copy (SCP)

Another Machine (IP=10.238.2.5)



This Machine

