



How to transfer a file over network



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1 Article purpose

The article aims to give some information useful to start with the `scp` Linux command.

2 Introduction

The `scp`^[1] copies files between hosts on a network. It uses `ssh`^[2] (remote login program) for data transfer, uses the same authentication and provides the same security as `ssh`.

This article focuses on the file transfer between a host PC and a STMicroelectronics board over a network connection.

3 Installation on your target

The `scp` is installed on the STMicroelectronics images via the package `openssh`.

4 Installation on your PC

The package `openssh-client` must be installed on your host PC to perform a file transfer over network with the `scp`.

On Ubuntu:

```
PC $> sudo apt-get install openssh-client
```



5 Getting started

- Your host PC and your board are connected to your local network through
 - the STM32MP157x-EV1 Evaluation board CN3 Ethernet connector
 - the STM32MP157x-DKx Discovery kit CN8 Ethernet connector
- The board IP address (*<board ip address>*) has been retrieved thanks to the *ip* Linux command line
- **Upload a file** (*<host file path>/<example.txt>*) from your host PC to your board:

```
PC $> scp <host file path>/<example.txt> root@<board ip address>:./<board file path>/
```

```
Example (assuming that <board ip address> is a.b.c.d):  
Copy the example.txt host PC file in the /home/root/ board directory  
PC $> echo "scp example: from host PC to board" > ./example.txt  
PC $> scp ./example.txt root@a.b.c.d:/home/root
```

```
Check the result on the board  
Board $> cat /home/root/example.txt  
scp example
```

- Download a file (*/<board file path>/<example.txt>*) from your board to your host PC:

```
PC $> scp root@<board ip address>:./<board file path>/<example.txt> <host file path>/
```

```
Example (assuming that <board ip address> is a.b.c.d):  
Copy the example.txt board file in the current directory of the host PC  
Board $> echo "scp example: from board to host PC" > /home/root/example.txt  
PC $> scp root@a.b.c.d:/home/root/example.txt ./
```

```
Check the result on the host PC  
Board $> cat ./example.txt  
scp example: from board to host PC
```

6 References

- [scp - Linux man page](#)
- [ssh - Linux man page](#)

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