



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 **STM32MP157C-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](#)