

Rsync - Synchronize Data

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You can use the tool `rsync` to synchronize folders between computers. You might want to transfer some files from your desktop computer or laptop to your Pi, for example, and for them to be kept up to date. Using `rsync` over SSH allows you to transfer files to your computer automatically.

Here is an example of how to set up the sync of a folder of pictures on your Pi to your computer: On your computer, create a folder called `camera`. Make the folder accessible to other systems in the network.

1. Look up the Pi's IP address by logging in to it and running `hostname -I`. In this example, the Pi is creating a time lapse by capturing a photo every minute, and saving the picture with a timestamp in the local folder `camera` on its SD card.
2. Now run the following command (substituting your own Pi's IP address):
`rsync -avz -e ssh pi@192.168.1.10:camera/ camera/`
3. This will copy all files from the Pi's `camera` folder to your computer's new `camera` folder.
4. If you want to *keep* the folders in sync, run this command in **`cron`**.