**Steps of setting Docker and GitHub**

in the host machine terminal:

docker run --rm -p 8787:8787 -e PASSWORD=mypassword --name myrstudio rocker/rstudio

once open the Rstudio Docker version:

git config --global user.name “MollyCYM”

git config --global user.email “[yc680@cam.ac.uk](mailto:yc680@cam.ac.uk)”

check if this is set up correctly

git config --global --list

in host machine terminal: create a git repostery to the targeted work file:

docker run -v C:\Docker\_RStudio:/home/rstudio/target-folder -p 8788:8787 rocker/rstudio

check password in the terminal

in Rstudio Docker container: cd /home/rstudio/target-folder

if works correctly, this should show: cd /home/rstudio/target-folder

Use Git in the Target Folder: To initialize a Git repository in this folder, run:

git init

Then, **Create a Repository on GitHub**

1. **Go to GitHub**: Log in to your [GitHub account](https://github.com).
2. **Create a New Repository**:
   * Click the green **New** button (usually on your profile or repository page).
   * Enter a repository name (e.g., target-folder).
   * Set it to private or public as needed.
   * Do NOT initialize it with a README or .gitignore (since you already initialized the repository locally).
   * Click **Create repository**.

Step 2: Connect the Local Repository to GitHub

In the RStudio terminal inside your Docker container, navigate to your target folder:

bash

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cd /home/rstudio/target-folder

Add the remote repository URL:

bash

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git remote add origin https://github.com/your-username/target-folder.git

Replace your-username with your GitHub username and target-folder.git with the name of your GitHub repository. (check in github for user name and target-folder)#

If error occurred for fatal: detected dubious ownership in repository

git config --global --add safe.directory /home/rstudio/target-folder

and then, run the previous git remote again-should work!!!

Then final check if all is set up correctly:

git remote -v

if setup correctly, should show up:

origin https://github.com/MollyCYM/Docker\_try.git (fetch)

origin https://github.com/MollyCYM/Docker\_try.git (push)