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| **Action** | **Command** | **Environment** |
| List all available Docker images | docker images | Terminal |
| Running a container | docker run --rm -p8787:8787 -e USER=myself -e PASSWORD=guest -v /Users/adammckinnon/R\_Studio\_Shared:/home/myself/r-studio adam-d-mckinnon/docker-r-studio  Notes:   * -rm (removes / exists the container once closed) * -p 8787:8787 (maps the ports for running the container) * -e (specifies the username and password) * -v (specifies the folder on the device running the container to be shared):(requires a colon to separate the folders, the specify the folder in the container that will be shared) | Terminal |
| Kill the container manually | Control + c | Terminal |
| Turn the Docker file into an executable file | vim Run\_RStudio   * vim (runs the command line tool) * Run\_RStudio (this is the name we give the executable file) | Terminal |
| Commands within Vim | * Press escape to stop the cursor from typing in the file * ‘w’ (writes the file) * ‘q’ (quits the file) | Terminal / Vim |
| Turn the file into an executable file | chmod +x Run\_RStudio (turns the Run\_RStudio file into an executable file) | Terminal |
| Pushing Image to Dockerhub | (<https://stackoverflow.com/questions/41984399/denied-requested-access-to-the-resource-is-denied-docker>)  Here are the steps worked for me :  1) Login to the docker.  docker login -u sirimalla   * docker login * enter the following when prompted * adammck787 * pswd   2) Tag your image build  my image name here is : **mylocalimage** (adam-d-mckinnon/docker-r-studio) and by default it has tag : **latest** and my username is : **sirimalla** (adammck787) as registered with docker cloud, and I created a public repository named : **dockerhub**  so my personal repository becomes now : **sirimalla/dockerhub** (adammck787/dockerhub) and I want to push my image with tag : myfirstimagepush (docker-r-studio)  I tagged as below :  docker tag mylocalimage:latest sirimalla/dockerhub:myfirstimagepush  (docker tag adam-d-mckinnon/docker-r-studio:latest adammck787/dockerhub:docker-r-studio)  3) Pushed the image to my personal docker repository as below  docker push sirimalla/dockerhub:myfirstimagepush  (docker push adammck787/dockerhub:docker-r-studio)  And it successfully pushed to my personal docker repo. |  |