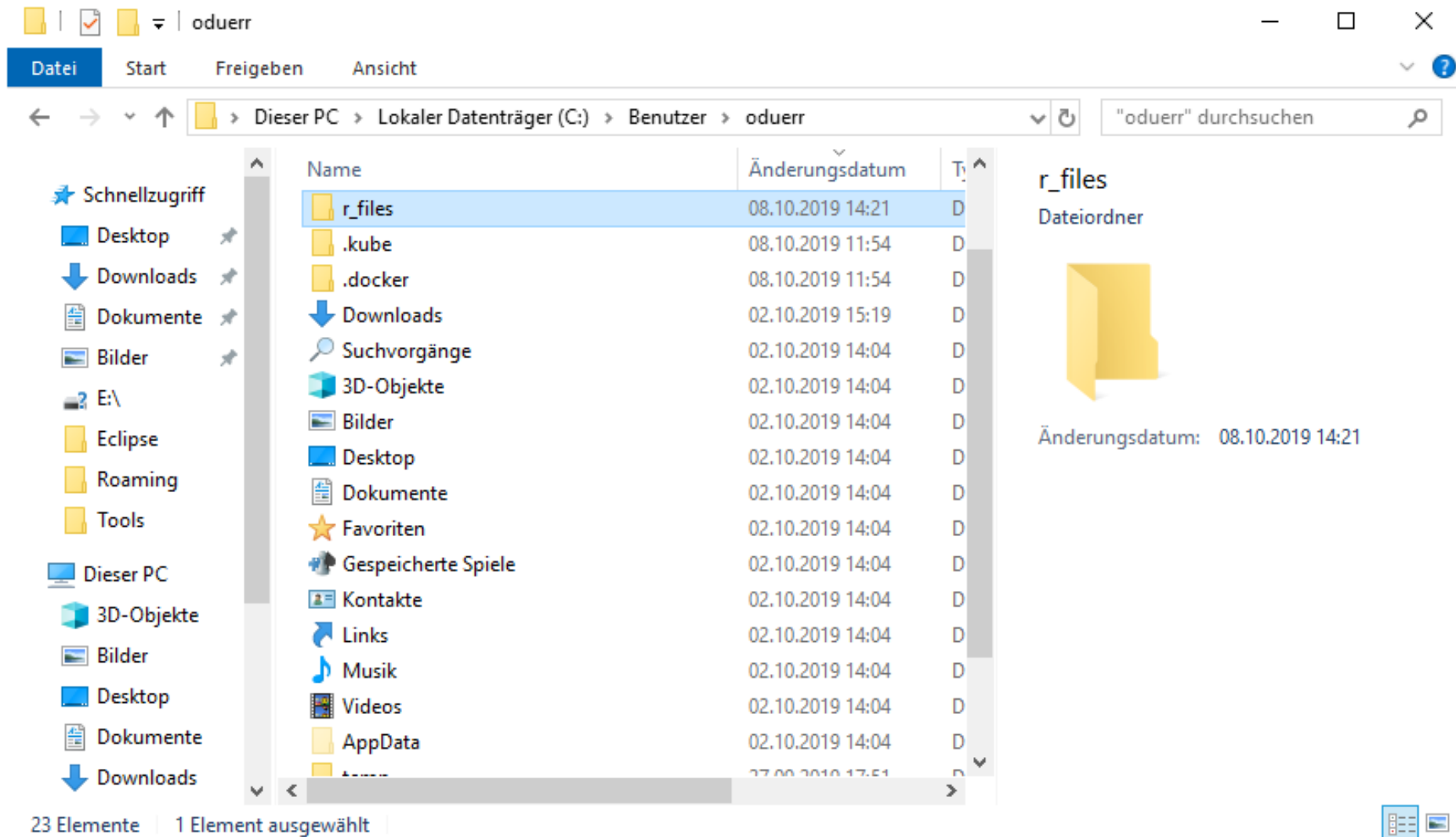


Prof. Dr. Oliver Dürr

Benutzung von Docker

Anlegen eines neuen Ordners r_files



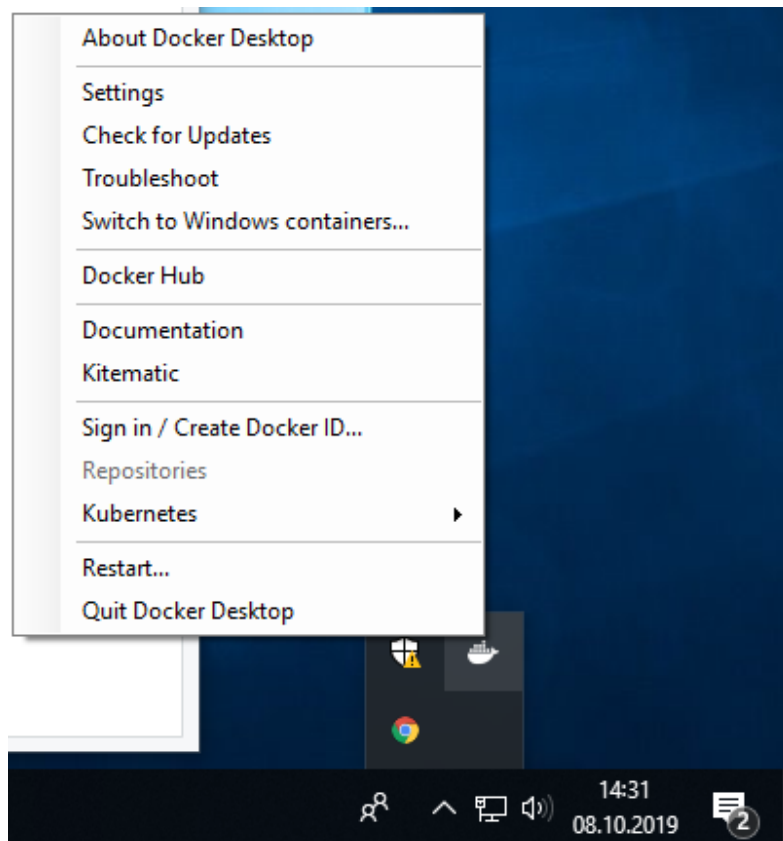
In diesen Ordner werden nachher die Dateien geschrieben

Starten von Docker

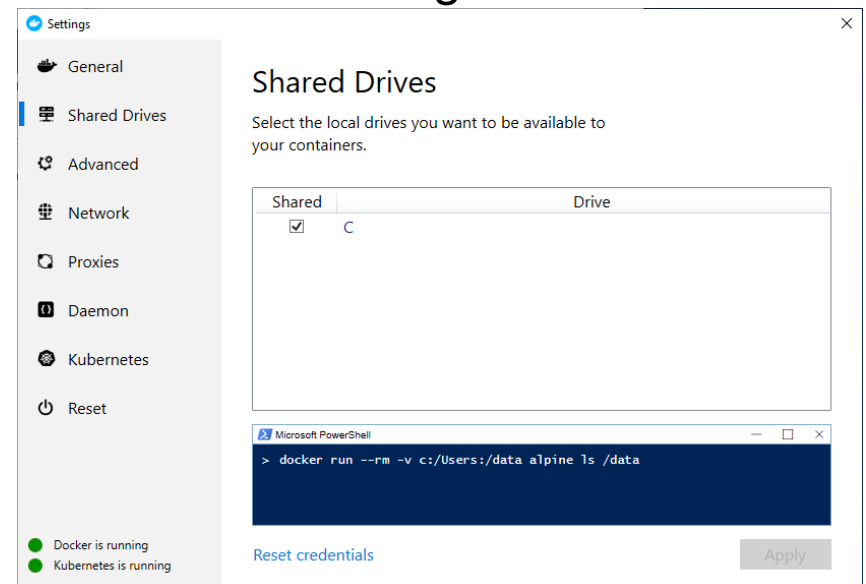


Von Desktop aus

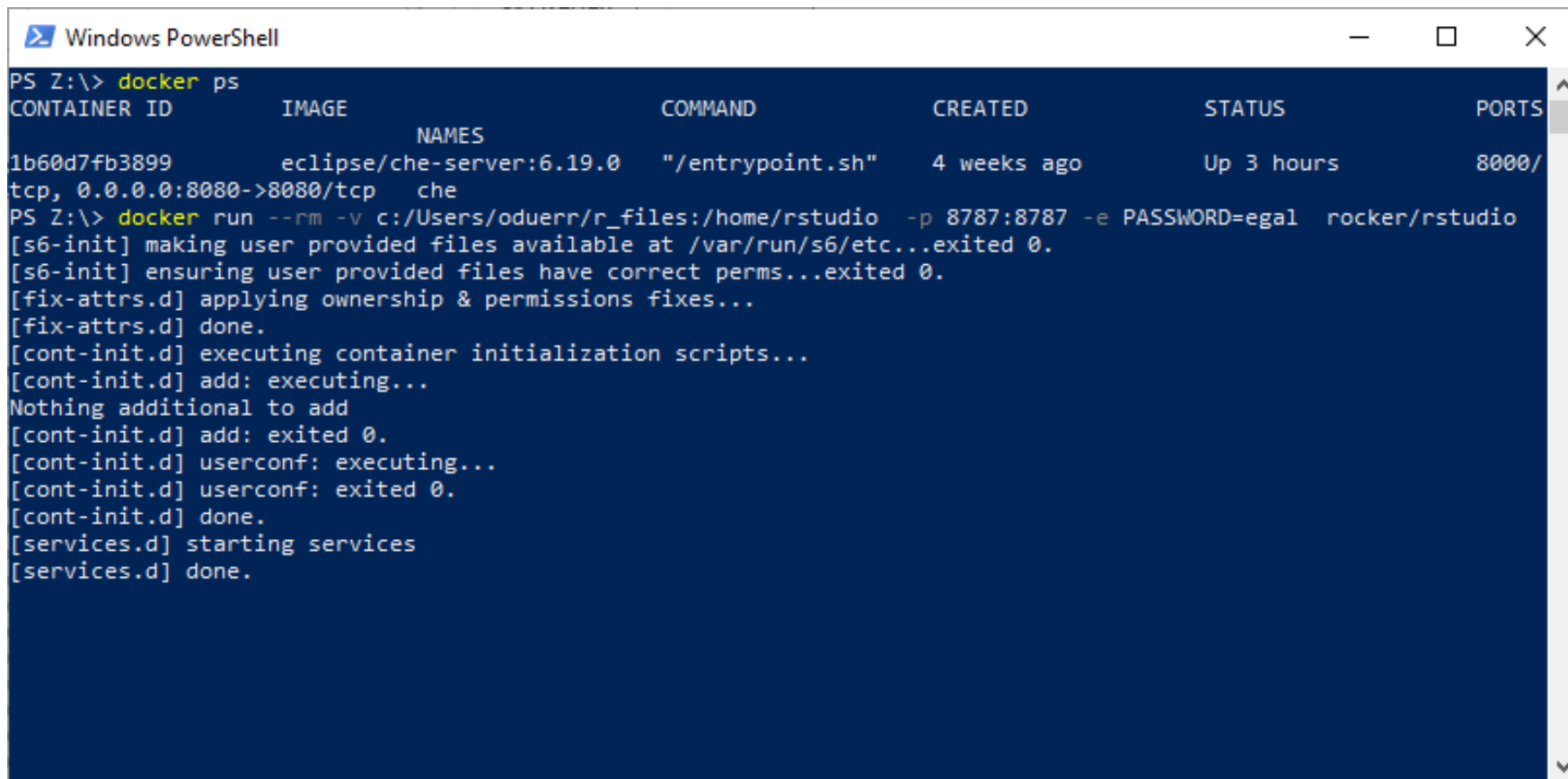
Nach dem Start etwas warten



Das drive c sollte geshared werden



Starten des docker containers in windows powershell



The screenshot shows a Windows PowerShell window with a dark blue background. The title bar reads 'Windows PowerShell'. The terminal output shows the command `docker ps` followed by a table of running containers. The table has columns for Container ID, Image, Names, Command, Created, Status, and Ports. One container is listed: `1b60d7fb3899` with image `eclipse/che-server:6.19.0` and status 'Up 3 hours'. Below the table, the command `docker run --rm -v c:/Users/oduerr/r_files:/home/rstudio -p 8787:8787 -e PASSWORD=egal rocker/rstudio` is executed. The output shows the container's initialization process, including file availability checks, permission fixes, and service starting, all ending with 'exited 0' or 'done'.

```
PS Z:\> docker ps
CONTAINER ID        IMAGE               NAMES                  COMMAND                  CREATED             STATUS              PORTS
1b60d7fb3899       eclipse/che-server:6.19.0  "/entrypoint.sh"      4 weeks ago            Up 3 hours          8000/tcp, 0.0.0.0:8080->8080/tcp
PS Z:\> docker run --rm -v c:/Users/oduerr/r_files:/home/rstudio -p 8787:8787 -e PASSWORD=egal rocker/rstudio
[s6-init] making user provided files available at /var/run/s6/etc...exited 0.
[s6-init] ensuring user provided files have correct perms...exited 0.
[fix-attrs.d] applying ownership & permissions fixes...
[fix-attrs.d] done.
[cont-init.d] executing container initialization scripts...
[cont-init.d] add: executing...
Nothing additional to add
[cont-init.d] add: exited 0.
[cont-init.d] userconf: executing...
[cont-init.d] userconf: exited 0.
[cont-init.d] done.
[services.d] starting services
[services.d] done.
```

`docker run --rm -v c:/Users/oduerr/r_files:/home/rstudio -p 8787:8787 -e PASSWORD=egal rocker/rstudio`

`-v c:/Users/oduerr/r_files:/home/rstudio` Files nach in o_duerr/r_files

`-p 8787:8787` Zugriff mit dem Browser

`rocker/rstudio` name des containers

Öffnen der Umgebung im Browser

<http://localhost:8787/>

Alternative: <http://192.168.99.100:8787>

The screenshot displays the RStudio web interface in a browser window. The browser's address bar shows `localhost:8787`. The RStudio interface includes a menu bar (File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help) and a toolbar. The main editor area shows an R script with the following code:

```
1 x = seq(0,2*3.14,0.1)
2 plot(x,sin(x), type='l')
3
```

The console at the bottom shows the execution of the script, including several error messages:

```
> x = seq(0,3.14,0.1)
> plot(x,y)
Error in xy.coords(x, y, xlabel, ylabel, log) : object 'y' not found
> plot(x,sin(x))
> x = seq(0,2*3.14,0.1)
> plot(x,sin(x))
> plot(x,sin(x), w l)
Error: unexpected symbol in "plot(x,sin(x), w l"
> plot(x,sin(x), wl)
Error in plot.xy(xy, type, ...) : object 'wl' not found
> plot(x,sin(x), type='l')
>
```

The Environment pane on the right shows the Global Environment with a variable `x` of type `num` [1:63] containing values from 0 to 0.7. The Plots pane at the bottom right displays a line plot of `sin(x)` versus `x`, showing a sine wave oscillating between -1.0 and 1.0 over the range of `x` from 0 to 6.