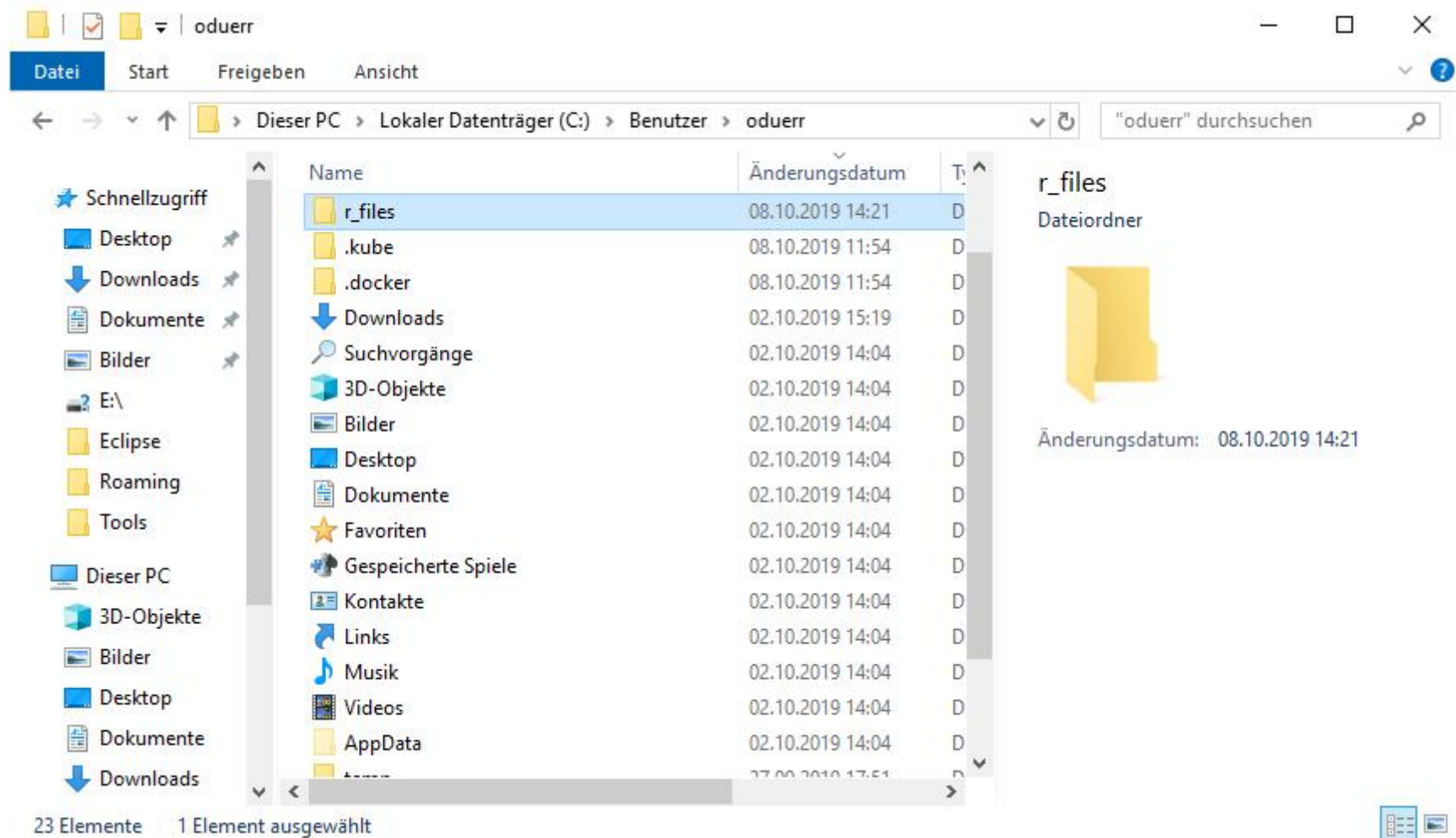


Hochschule Konstanz
Fakultät Informatik

Prof. Dr. Oliver Dürr

Benutzung von Docker

Anlegen eines neuen Ordners r_files



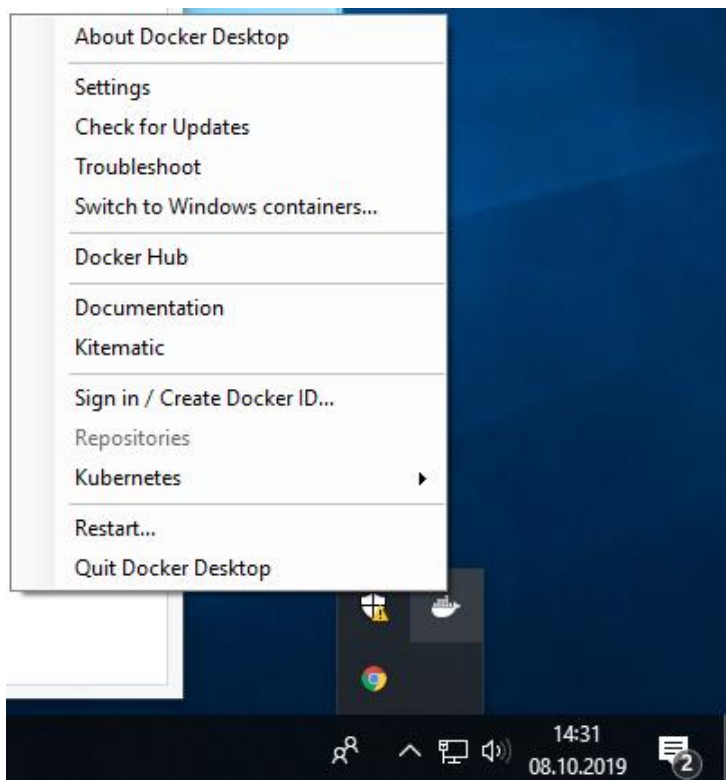
In diesen Ordner werden nachher die Dateien geschrieben

Starten von Docker

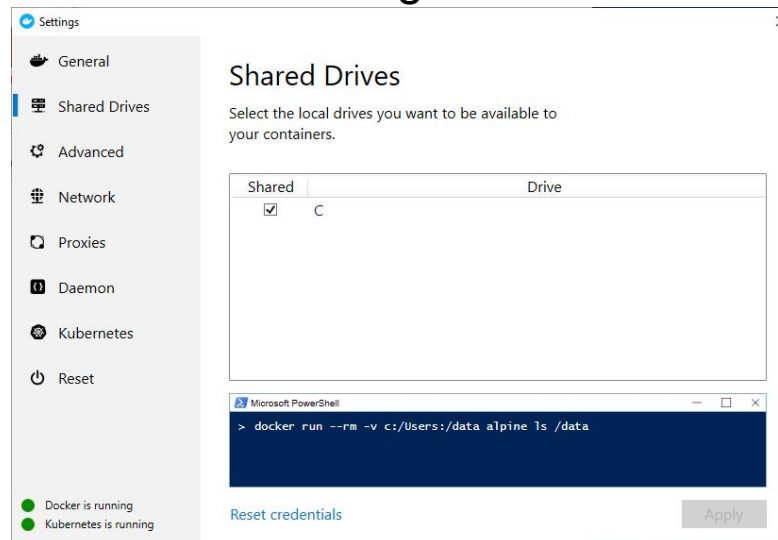


Von Desktop aus

Nach dem Start etwas warten



Das drive c sollte geshared werden





Starten des docker containers in windows powershell

```
Windows PowerShell
PS Z:\> docker ps
CONTAINER ID        IMAGE               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  che
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 shows the RStudio interface accessed via a web browser at `localhost:8787`. The browser window has tabs for 'RStudio', 'Manning | Probabilistic Deep Le...', and 'Inbox (459) - oliver.duerr@gmail...'. The address bar shows `localhost:8787`. The RStudio interface includes a menu bar (File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help), a toolbar, and a main workspace divided into several panels:

- Source Editor:** Contains a script named 'Test2.R' with the following code:


```
1 x = seq(0,2*3.14,0.1)
2 plot(x,sin(x), type='l')
3
```
- Environment Panel:** Shows the 'Global Environment' with a table of values:

Variable	Class	Length	Values
x	num	[1:63]	0 0.1 0.2 0.3 0.4 0.5 0.6 0.7...
- Console:** Displays the output of the R script, including a warning message and an error:


```
~/
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> 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 1)
Error: unexpected symbol in "plot(x,sin(x), w 1"
> plot(x,sin(x), w1)
Error in plot.xy(xy, type, ...) : object 'w1' not found
> plot(x,sin(x), type='l')
>
```
- Plots Panel:** Displays a line plot of $\sin(x)$ versus x . The x-axis ranges from 0 to 6, and the y-axis ranges from -1.0 to 1.0. The plot shows a smooth sine wave.