Docker Aufgaben 2

Aufgabe 1:

3 Hauptvarianten vom Node Image:

- node
  - Standard node version
  - Groß
  - Hat schon viele dependencies vorinstalliert
  - 952 MB
- node-alpine
  - Basierend auf Alpine-Linux (lightweight)
  - Enthält nur das notwendigste
  - 178 MB
- node-slim
  - Oft basierend auf Debian, CentOS
  - Enthält ebenfalls nur die notwendigsten Abhängigkeiten
  - Könnte größer als das Alpine-Image sein
  - ~188 MB

Image herunterladen und umbenennen:

```
docker pull node:alpine
docker image tag node:alpine small-node
```

Container erstellen und nach dem schließen löschen:

```
docker run --rm -it small-node
```

```
PS C:\Users\matth> docker exec -it d31bc26f791d /bin/sh
Error response from daemon: No such container: d31bc26f791d
```

Aufgabe 2:

```
docker pull node
docker run -it node
docker exec -it <container_ID> /bin/bash
```

```
PS C:\Users\matth> docker exec -it 2c /bin/bash
root@2c7c8d1bef78:/# ls
bin   dev  home  lib64  mnt   proc  run   srv  tmp  var
boot  etc  lib   media  opt   root  sbin  sys  usr
root@2c7c8d1bef78:/# cd etc/
root@2c7c8d1bef78:/etc# ls
ImageMagick-6            group-          mtab          rmt
X11                     gshadow         mysql         rpc
adduser.conf            gshadow-        netconfig     security
alternatives            gss             networks      selinux
apt                     host.conf       nsswitch.conf services
bash.bashrc             hostname        opt           shadow
bash_completion.d       hosts           os-release    shadow-
bindresvport.blacklist  init.d          pam.conf      shells
ca-certificates         inputrc         pam.d         skel
ca-certificates.conf    issue           passwd        ssh
cron.d                  issue.net       passwd-       ssl
cron.daily              kernel          perl          subgid
debconf.conf            ld.so.cache     profile       subgid-
debian_version          ld.so.conf      profile.d     subuid
default                 ld.so.conf.d    protocols     subuid-
deluser.conf            libaudit.conf   python3       subversion
dpkg                    localtime       python3.11    sysctl.conf
e2scrub.conf            logcheck        rc0.d         sysctl.d
emacs                   login.defs      rc1.d         systemd
environment             logrotate.d     rc2.d         terminfo
ethertypes              magic           rc3.d         timezone
fonts                   magic.mime      rc4.d         ucf.conf
fstab                   mercurial       rc5.d         update-motd.d
gai.conf                mime.types      rc6.d         wgetrc
gprofng.rc              mke2fs.conf     rcS.d         xattr.conf
group                   motd            resolv.conf
root@2c7c8d1bef78:/etc# cat debian_version
12.5
```

```
root@2c7c8d1bef78:/# cd usr/share/
root@2c7c8d1bef78:/usr/share# ls -a
.                  ca-certificates  gcc        libtool       polkit-1
..                 common-licenses  gdb        lintian       python3
ImageMagick-6      debconf          gettext    locale        readline
X11                debianutils      gir-1.0    man           sensible-utils
aclocal            dict             git-core   menu          sgml
aclocal-1.16       djvu             gitweb     mercurial     tabset
applications       doc              glib-2.0   mime          terminfo
apport             doc-base         gnupg      misc          thumbnailers
autoconf           dpkg             icons      mysql-common  ucf
automake-1.16      emacs            icu        pam           util-linux
base-files         et               info       pam-configs   vala
base-passwd        file             keyrings   perl          xml
bash-completion    fish             libc-bin   perl5         zoneinfo
binfmts            fontconfig       libgcrypt20 pixmaps      zsh
bug                fonts            libthai    pkgconfig
```

Aufgabe 3:

```
PS C:\Users\matth> docker rename 2c7c8d1bef78fc9408971d56488683772cc1b379cf3
f5eb80dc5ee953b85eedb my-node-app

# ls
bin    dev    home   lib64   mnt   proc   run    srv    tmp   var
boot   etc    lib    media   opt   root   sbin   sys    usr
# mkdir app
# cd app
# touch main.js
# echo "console.log('Hallo Welt')" | cat > main.js
# node main.js
Hallo Welt
#
```