

# Docker

## Docker Registry Proxy

<https://docs.docker.com/config/daemon/systemd/#httphttps-proxy>

## Bootstrap basic Debian image

```
mkdir jessie-chroot
sudo debootstrap jessie ./jessie-chroot http://http.debian.net/debian/
```

Build docker image from tarball

```
cd jessie-chroot
sudo tar cpf - . | docker import - debian
```

Build new container

```
docker run -it --rm debian /bin/bash
```

## Start Container from Dockerhub Image

```
docker run --name nifi -p 8080:8080 -d apache/nifi:latest
```

With interactive shell:

```
docker run -it apache/nifi bash
```

## Jump into Container

```
docker exec -it nifi bash
```

## Stop Container

```
docker stop nifi
```

## Remove Containers, Images, Volumes

```
docker stop $(docker ps -aq) && docker rm $(docker ps -aq) && docker rmi $(docker images -aq) && docker volume rm $(docker volume ls -q)
```

## Aliases

*(Docker aliases to set for the shell)*

```
alias dps='docker ps -a --format "table
{{.Names}}\t{{.Status}}\t{{.Ports}}\t{{.Image}}\t{{.Command}}" | (read -r;
printf "%s\n" "$REPLY"; sort -k 1 )'
```

## Docker Logging

### Logging with rsyslog

/etc/rsyslog.d/docker.conf

```
# Docker config
$AddUnixListenSocket /tmp/syslog.sock

# syslogtag enthält noch PID
# programname nur appname/tag: 598-rddnsmaq
$template myFormat,"%timereported% %programname%%msg:::sp-if-no-1st-sp%%msg:::drop-last-lf%\n"

template(
  name="docker_container_file"
  type="string"
  string="/var/log/docker/%programname%.log"
  option.casesensitive="on"
)

# 23: local7
if $syslogfacility == 23 then {
  if $programname startswith "bw_" then {
    action(name="docker-containers-bitwarden" type="omfile"
file="/var/log/docker/bitwarden.log" template="myFormat")
  } else {
    action(name="docker-containers" type="omfile"
dynaFile="docker_container_file" template="myFormat")
  }
}
```

```
}
```

/etc/docker/daemon.json

```
{
  "log-driver": "syslog",
  "log-opts":
  {
    "tag": "{{.Name}}",
    "syslog-facility": "local7",
    "syslog-address": "unixgram:///tmp/syslog.sock"
  }
}
```

Restart rsyslog, the docker daemon and then all containers to switch to the new driver. Otherwise the docker daemon shows the following error message for the affected containers: "Configured log driver does not support reads, enabling local file cache for container logs".

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