Docker containers

A comprehensive installation guide of the docker containers used for greiner.live and greinet.com.

- wbo - Collaborative whiteboard
- wger - Workout Manager
- XWiki - A extendable wiki service
- GMOD TTT - A trouble in terrorist town game server
- Minecraft Servers
- Authelia - SSO provider
- Kutt - A URL shortener
- IceCoder - A web-based IDE
- Neko - A browser in the browser
- Shiori - A bookmark manager
- Gitlab - A git server
- RoF/RoD - A ring of death/ring of fire webserver
- Matrix - A full matrix stack
- Actual - A budgeting software
- Akaunting - A budgeting software
- Immich - A self-hosted Google Photos alternative

Random notes

A collection of random notes regarding docker.

Random notes

Registry garbage collect

In folder **/etc/docker/registry** execute **registry garbage-collect config.yml**

Random notes

Multiarch builds

Docker supports building images for multiple architectures like ARM or AMD from one Dockerfile on a single device.

Resources

- https://medium.com/@artur.klauser/building-multi-architecture-docker-images-with-buildx-27d80f7e2408
- https://github.com/TryGhost/node-sqlite3/pull/1362

DrawIO - A flowchart maker

Summary

DrawIO is a flowchart maker able to create all kinds of different charts or diagrams. It supports multiple different export modes like PDF, Images or HMTL.

Installation via docker-compose behind traefik proxy

```
services:
  plantuml-server:
    image: jgraph/plantuml-server
    expose:
      - "8080"
    networks:
      - drawio_local
    volumes:
      - /PATH/TO/FOLDER/fonts:/usr/share/fonts/drawio
  image-export:
    image: jgraph/export-server
    expose:
      - "8000"
    networks:
      - drawio_local
    volumes:
      - /PATH/TO/FOLDER/fonts:/usr/share/fonts/drawio
    environment:
      - DRAWIO_SERVER_URL=https://drawio.domain.tld
  drawio:
    image: jgraph/drawio
    links:
      - plantuml-server:plantuml-server
      - image-export:image-export
    depends_on:
      - plantuml-server
      - image-export
    networks:
```

```
    - drawio_local
    - traefik
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.drawio.rule=Host(`drawio.domain.tld`)"
    - "traefik.http.routers.drawio.entrypoints=websecure"
    - "traefik.http.routers.drawio.tls=true"
    - "traefik.http.services.drawio.loadBalancer.server.port=8080"
    - "traefik.http.routers.drawio.middlewares=traefik-forward-auth"
    - "traefik.docker.network=traefik"
  environment:
    - DRAWIO_SELF_CONTAINED=1
    - PLANTUML_URL=http://plantuml-server:8080/
    - EXPORT_URL=http://image-export:8000/
    - DRAWIO_BASE_URL=https://drawio.domain.tld
```

Grafana - A analytics & monitoring solution

Summary

Grafana is a analytics and monitoring solution for every database available. It supports creating dashboards for your database data and also monitors the data, with options for alerting via various ways.

Installation via docker-compose

To prevent file permission problems it is recommended to set the user id of your host linux user (run the command "*id -u*").

```
version: "2"
services:
  grafana:
    image: grafana/grafana:latest
    user: "1000"
    restart: always
    ports:
      - "3000:3000"
    volumes:
      - /PATH/TO/FOLDER/data:/var/lib/grafana
    environment:
      - GF_SECURITY_ADMIN_USER=USERNAME
      - GF_SECURITY_ADMIN_PASSWORD=PASSWORD
```

Guacamole - Remote server manager

Summary

The guacamole service enables users to access remote computer via services like ssh or rdp. This container is a all in one container being able to be run on raspberry pi.

Installation via docker-compose behind traefik proxy

```
version: '3'

networks:
  traefik:
      name: traefik

volumes:
  remote_guacamole_config:
    external: true

services:
  guacamole:
    image: maxwaldorf/guacamole
    networks:
      - traefik
    volumes:
      - remote_guacamole_config:/config
    restart: always
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.guac.rule=Host(`guac.domain.com`)"
      - "traefik.http.routers.guac.entrypoints=websecure"
      - "traefik.http.routers.guac.tls=true"
      - "traefik.http.services.guac.loadBalancer.server.port=8080"
      - "traefik.docker.network=traefik"
  backup:
```

```
image: reg.greinet.com/jareware/docker-volume-backup:2.6.0
environment:
  - BACKUP_CRON_EXPRESSION="@daily"
volumes:
  - remote_guacamole_config:/backup/guacamole-config:ro
  - /home/ubuntu/backups/guacamole:/archive
```

Heimdall - Application dashboard

Summary

Heimdall is a application dashboard and launcher, organising all your web services in a single application. The documentation canbe found at linuxserver/Heimdall.

Installation via docker-compose behind traefik proxy

```
heimdall:
  image: linuxserver/heimdall
  environment:
    - PUID=1000
    - PGID=1000
    - TZ=Europe/Berlin
  networks:
    - traefik
  volumes:
    - /path/to/config:/config
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.heimdall.rule=Host(`heimdall.domain.com`)"
    - "traefik.http.routers.heimdall.entrypoints=websecure"
    - "traefik.http.routers.heimdall.tls=true"
    - "traefik.http.services.heimdall.loadBalancer.server.port=80"
    - "traefik.docker.network=traefik"
```

Home Assistant - Central smart home service

Summary

Home Assistant is a central smart home service used to connect all your smart home utilities.

Installation via docker-compose

```
version: '3'
services:
  homeassistant:
    container_name: homeassistant
    image: "ghcr.io/home-assistant/home-assistant:stable"
    volumes:
      - /home/ubuntu/docker/homeassistant/config:/config
      - /etc/localtime:/etc/localtime:ro
    restart: unless-stopped
    privileged: true
    network_mode: host
```

Use behind proxy

Add the http configuration to your configuration.yaml.

```
http:
  base_url: homeassistant.domain.tld
  use_x_forwarded_for: true
  trusted_proxies:
    - 192.1.1.1
```

HrConvert - File conversion tool

Summary

Online conversion tools for 75 different file types including audio or video files, documents, presentations, archaives and much more.

Installation via docker-compose.yml with traefik

```
convert:
  image: dwaaan/hrconvert2-docker:latest
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.convert.rule=Host(`conv.domain.com`)"
    - "traefik.http.routers.convert.entrypoints=websecure"
    - "traefik.http.routers.convert.tls=true"
    - "traefik.http.services.convert.loadBalancer.server.port=80"
    - "traefik.docker.network=traefik"
  networks:
    - traefik
  restart: always
  volumes:
    - "/path/to/folder/config.php:/var/www/html/HRProprietary/HRConvert2/config.php"
```

InfluxDB - A time series database

Summary

InfluxDB is a time series databse mostly used for sensor data. It supports APIs for data storing, querying and processing.

Installation

The easiest way to initialize influxdb is by running a docker run command with environment variables to initialize the folder structure. Don't forget to create the folder for the volumes first.

```
docker run -p 8086:8086 \
  -v /PATH/TO/FOLDER/influxdb/data:/var/lib/influxdb2 \
  -v /PATH/TO/FOLDER/config:/etc/influxdb2 \
  -e DOCKER_INFLUXDB_INIT_MODE=setup \
  -e DOCKER_INFLUXDB_INIT_USERNAME=USERNAME \
  -e DOCKER_INFLUXDB_INIT_PASSWORD=PASSWORD \
  -e DOCKER_INFLUXDB_INIT_ORG=ORGANISATION \
  -e DOCKER_INFLUXDB_INIT_BUCKET=BUCKET \
  influxdb:2.0
```

After the initialization you need to delete the docker container again. Then you can start the normal container via docker-compose.

```
version: "2"
services:
  influxdb:
    image: influxdb:2.0
    ports:
      - "8086:8086"
    restart: always
    volumes:
      - /PATH/TO/FOLDER/data:/var/lib/influxdb2
      - /PATH/TO/FOLDER/config:/etc/influxdb2
```

Data deletion

If you inserted some data wrongfully or want to delete data for any other reason, you need to execute a command in the influxdb container. Eighter run it via docker exec or just connect into the container shell via portainer. Then you can delete measurements with the following command:

```
influx delete --org ORGANIZATION --bucket BUCKET --start 1970-01-01T00:00:00Z --stop $(date +"%Y-%m-%dT%H:%M:%SZ") --predicate '_measurement="MEASUREMENT"'
```

Jenkins - Open Source Automation Server

Summary

Jenkins is an open source automation server, acting as toolchain to build, test and deploy your software.

Installation via docker-compose behind traefik proxy

```
jenkins:
  image: jenkins/jenkins:lts
  user: root
  privileged: true
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.jenkins.rule=Host(`jenkins.yourdomain.com`)"
    - "traefik.http.routers.jenkins.entrypoints=websecure"
    - "traefik.http.routers.jenkins.tls=true"
    - "traefik.http.services.jenkins.loadBalancer.server.port=8080"
    - "traefik.docker.network=traefik"
  networks:
    - traefik
  restart: always
  volumes:
    - /path/to/data:/var/jenkins_home
    - /var/run/docker.sock:/var/run/docker.sock
    - /usr/bin/docker:/usr/bin/docker
```

LeanTime - Open Source Project Management

Summary

LeanTime is a open source project management solution providing kan-boards, To-Do-Lists and big-sized projects.

Installation via docker-compose behind traefik proxy

```
  leantime_web:
    environment:
      - LEAN_DB_HOST=leantime_db
      - LEAN_DB_USER=leantime_db_user
      - LEAN_DB_PASSWORD=leantime_db_password
      - LEAN_DB_DATABASE=leantime_db_name
      - LEAN_APP_URL=https://leantime.yourdomain.com
    image: leantime/leantime:latest
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.leantime.rule=Host(`leantime.yourdomain.com`)"
      - "traefik.http.routers.leantime.entrypoints=websecure"
      - "traefik.http.routers.leantime.tls=true"
      - "traefik.http.services.leantime.loadBalancer.server.port=80"
      - "traefik.docker.network=traefik"
    networks:
      - traefik
      - cmas_local
    restart: always
    #user with uid and guid 82 needed on host for volumes
    volumes:
      - /path/to/data/userfiles:/var/www/html/userfiles
      - /path/to/data/userfiles-public:/var/www/html/public/userfiles
  leantime_db:
    image: mysql
    command: --default-authentication-plugin=mysql_native_password
```

```
    restart: always
    volumes:
      - /path/to/data/db:/var/lib/mysql
    networks:
      - cmas_local
    environment:
      - MYSQL_ROOT_PASSWORD=db_root_password
      - MYSQL_DATABASE=leantime_db_name
      - MYSQL_USER=leantime_db_user
      - MYSQL_PASSWORD=leantime_db_password
```

MeshCentral - Computer management portal

Summary

MeshCentral is a web portal to manage multiple computers via agent and enables screen share and remote control.

Installation via docker-compose behind traefik proxy

```
meshcentral:
  image: typhonragewind/meshcentral:2
  restart: always
  networks:
    - traefik
  environment:
    - ALLOW_NEW_ACCOUNTS=true
  volumes:
    - /path/to/folder/:/opt/meshcentral/meshcentral-data
    - /path/to/folder2:/opt/meshcentral/meshcentral-files
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.mesh.rule=Host(`mesh.domain.com`)"
    - "traefik.http.routers.mesh.entrypoints=websecure"
    - "traefik.http.routers.mesh.tls=true"
    - "traefik.http.services.mesh.loadBalancer.server.port=4430"
    - "traefik.docker.network=traefik"
```

NetCheck - Webservice monitoring

Summary

Tool to monitor your website uptime and performance automatically.

Installation via docker-compose behind traefik proxy

```
version: '2'

networks:
  traefik:
    external:
      name: traefik
  monitoring_local:
    external:
      name: monitoring_local

services:
  netcheck_db:
    image: postgres
    environment:
      - POSTGRES_USER=PGUSERNAME
      - POSTGRES_PASSWORD=PGPASSWORD
      - POSTGRES_DB=netcheck
    networks:
      - monitoring_local
    volumes:
      - /path/to/folder/:/var/lib/postgresql/data
    restart: always
  netcheck_api:
    image: memphisx/netcheck-api:latest
    environment:
      - POSTGRES_USER=
      - POSTGRES_USER=PGUSERNAME
```

```
      - POSTGRES_PASSWORD=PGPASSWORD
      - POSTGRES_DB=netcheck
      - POSTGRES_PORT=5432
      - POSTGRES_HOST=netcheck_db
      - SETTINGS_NOTIFICATIONS_PUSHOVER_ENABLED=false
      - SETTINGS_NOTIFICATIONS_PUSHOVER_APITOKEN=
      - SETTINGS_NOTIFICATIONS_PUSHOVER_USERIDTOKEN=
    depends_on:
      - netcheck_db
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.netcheck-api.rule=Host(`netcheck.domain.com`) &&
PathPrefix(`/api`,`/docs`,`/events`)"
      - "traefik.http.routers.netcheck-api.entrypoints=websecure"
      - "traefik.http.routers.netcheck-api.tls=true"
      - "traefik.http.services.netcheck-api.loadBalancer.server.port=8080"
      - "traefik.docker.network=traefik"
    networks:
      - traefik
      - monitoring_local
    restart: always
  netcheck_web:
    image: memphisx/netcheck-frontend:latest
    depends_on:
      - netcheck_api
    networks:
      - traefik
      - monitoring_local
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.netcheck-web.rule=Host(`netcheck.domain.com`)"
      - "traefik.http.routers.netcheck-web.entrypoints=websecure"
      - "traefik.http.routers.netcheck-web.tls=true"
      - "traefik.http.services.netcheck-web.loadBalancer.server.port=80"
      - "traefik.http.routers.netcheck-web.middlewares=traefik-forward-auth"
      - "traefik.docker.network=traefik"
    restart: always
```

Nextcloud - Self hosted cloud

Summary

Nextcloud is a self hosted one stop cloud solution, offering support for file hosting, calendars, notes and much more.

Installation via docker-compose behind traefik proxy

```
services:
  nextcloud_web:
    image: nextcloud
    restart: always
    networks:
      - traefik
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.nextcloud.rule=Host(`nextcloud.domain.tld`)"
      - "traefik.http.routers.nextcloud.entrypoints=websecure"
      - "traefik.http.routers.nextcloud.tls=true"
      - "traefik.http.services.nextcloud.loadBalancer.server.port=80"
      - "traefik.docker.network=traefik"
    volumes:
      - /PATH/TO/FOLDER/data:/var/www/html
    environment:
      - MYSQL_PASSWORD=PASSWORD
      - MYSQL_DATABASE=nextcloud
      - MYSQL_USER=nextcloud
      - MYSQL_HOST=nextcloud_db
  nextcloud_db:
    image: mariadb
    restart: always
    command: --transaction-isolation=READ-COMMITTED --binlog-format=ROW
    volumes:
      - /PATH/TO/FOLDER/db:/var/lib/mysql
```

```
    environment:
      - MYSQL_ROOT_PASSWORD=ROOT_PASSWORD
      - MYSQL_PASSWORD=PASSWORD
      - MYSQL_DATABASE=nextcloud
      - MYSQL_USER=nextcloud
    networks:
      - traefik
```

Node-RED - Smarthome simplified

Summary

Node-RED is a drag'n'drop service to simplify your smart home automations.

Installation via docker-compose

```
version: "3.7"


services:
  node-red:
    image: nodered/node-red:latest
    environment:
      - TZ=Europe/Berlin
    ports:
      - "1880:1880"
    volumes:
      - /home/ubuntu/nodered/data:/data
```

OpenHab - Home automation platform

Summary

OpenHab is a home automation platform integrating all your different smart home services. The documentation can be found at openhab.org.

Installation via docker-compose behind traefik proxy

```
openhab:
  image: openhab/openhab
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.openhab.rule=Host(`openhab.domain.com`)"
    - "traefik.http.routers.openhab.entrypoints=websecure"
    - "traefik.http.routers.openhab.tls=true"
    - "traefik.http.services.openhab.loadBalancer.server.port=8080"
    - "traefik.docker.network=traefik"
  networks:
    - traefik
  restart: always
```

OpenVas - Cyber security scanner

Summary

OpenVas is a cyber security scanner, designed to perform penetration testing on internal and external systems. The documentation can be found at immauss/openvas.

Installation via docker-compose behind traefik proxy

Found 2 configurations, not sure which is the working one :/

```
  openhab:
    image: "immauss/openvas"
    restart: always
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.openvas.rule=Host(`openvas.domain.com`)"
      - "traefik.http.routers.openvas.entrypoints=websecure"
      - "traefik.http.routers.openvas.tls=true"
      - "traefik.http.services.openvas.loadBalancer.server.port=9392"
      - "traefik.docker.network=traefik"
    networks:
      - traefik
    environment:
      PASSWORD: "<PASSWORD>"
```

```
version: "2"
services:
    gvm:
        image: securecompliance/gvm
        volumes:
          - /PATH/TO/FOLDER/openvas/gvm:/var/lib/gvm
          - /PATH/TO/FOLDER/openvas/plugins:/var/lib/openvas/plugins
        environment:
          - USERNAME="USERNAME"
```

```
      - PASSWORD="PASSWORD"
      - AUTO_SYNC=true
      - DB_PASSWORD="none"
    ports:
      - "9392:9392"  # Web interface
    restart: unless-stopped
```

```
version: "3"
services:
  openvas:
    ports:
      - 8080:9392
    environment:
      - SKIPSYNC=true
    volumes:
      - /path/to/data:/data
    image: immauss/openvas:22.4.32
```

OS.js - Browser based OS

Summary

OS.js is a virtual operating system written in JavaScript and living fully in your browser. The documentation can be found at os-js/OS.js.

Installation via docker-compose behind traefik proxy

```
osjs:
  image: osjs/osjs:latest
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.osjs.rule=Host(`osjs.domain.com`)"
    - "traefik.http.routers.osjs.entrypoints=websecure"
    - "traefik.http.routers.osjs.tls=true"
    - "traefik.http.services.osjs.loadBalancer.server.port=8000"
    - "traefik.docker.network=traefik"
  networks:
    - traefik
  restart: always
```

Plex - Multimedia platform

Summary

Manage and view your movie and series collection.

Installation via docker-compose

```
plex:
  image: ghcr.io/linuxserver/plex
  network_mode: host
  environment:
    - PUID=1000
    - PGID=1000
    - VERSION=docker
    - ADVERTISE_IP=http://192.168.178.188:32400/
  #- PLEX_CLAIM=claim-XXXXXXXXXXXXXXXX
  volumes:
    - /PATH/TO/FOLDER/config:/config
    - /PATH/TO/FOLDER/tvseries:/tv
    - /PATH/TO/FOLDER/movies:/movies
  restart: unless-stopped
```

Start the container once with the PLEX_CLAIM environment variable to claim the plex server to your account.

Portainer - Manage your containers

Summary

Portainer is a container management service for docker containers.

Installation via docker-compose

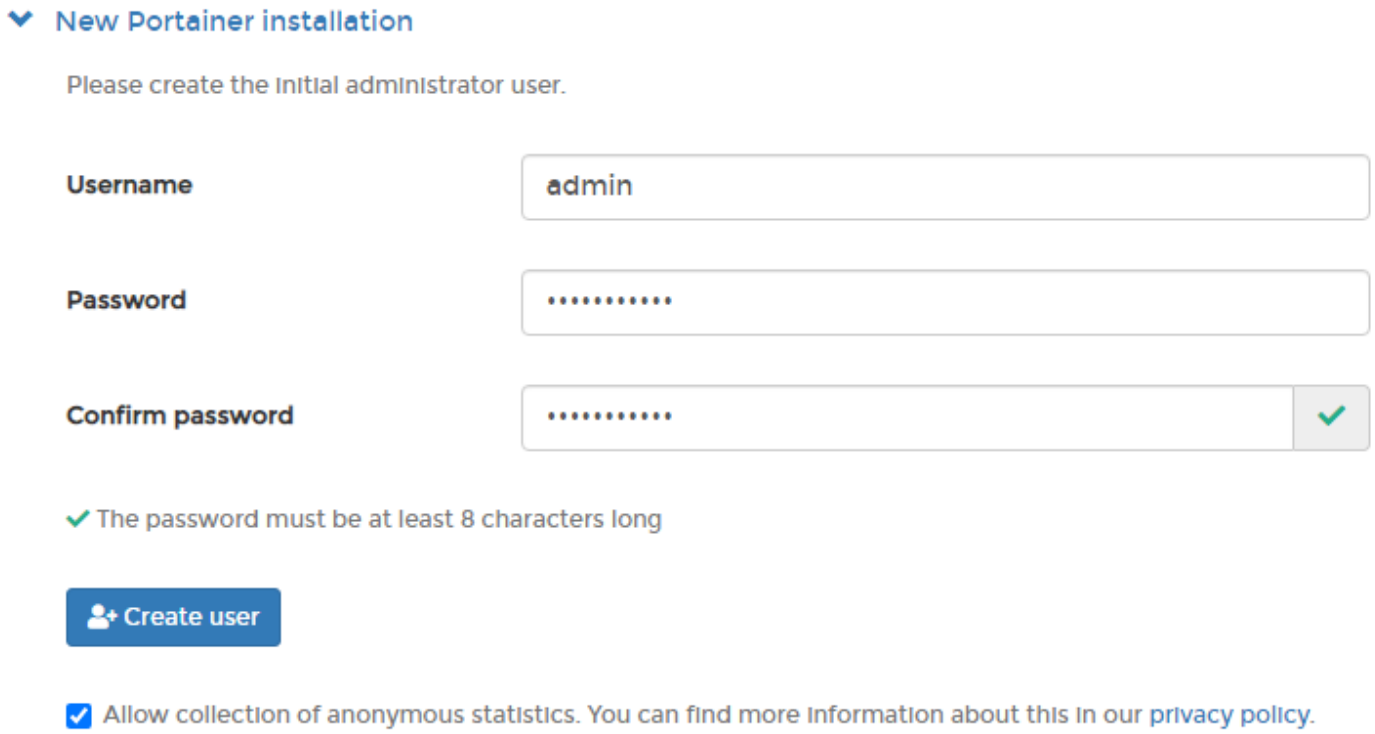
```
version: "3.3"

services:
  portainer:
    image: "portainer/portainer-ce"
    ports:
      - 9000:9000
    volumes:
      - "/var/run/docker.sock:/var/run/docker.sock:ro"
      - "/home/ubuntu/docker/portainer/data:/data"
    restart: always
```

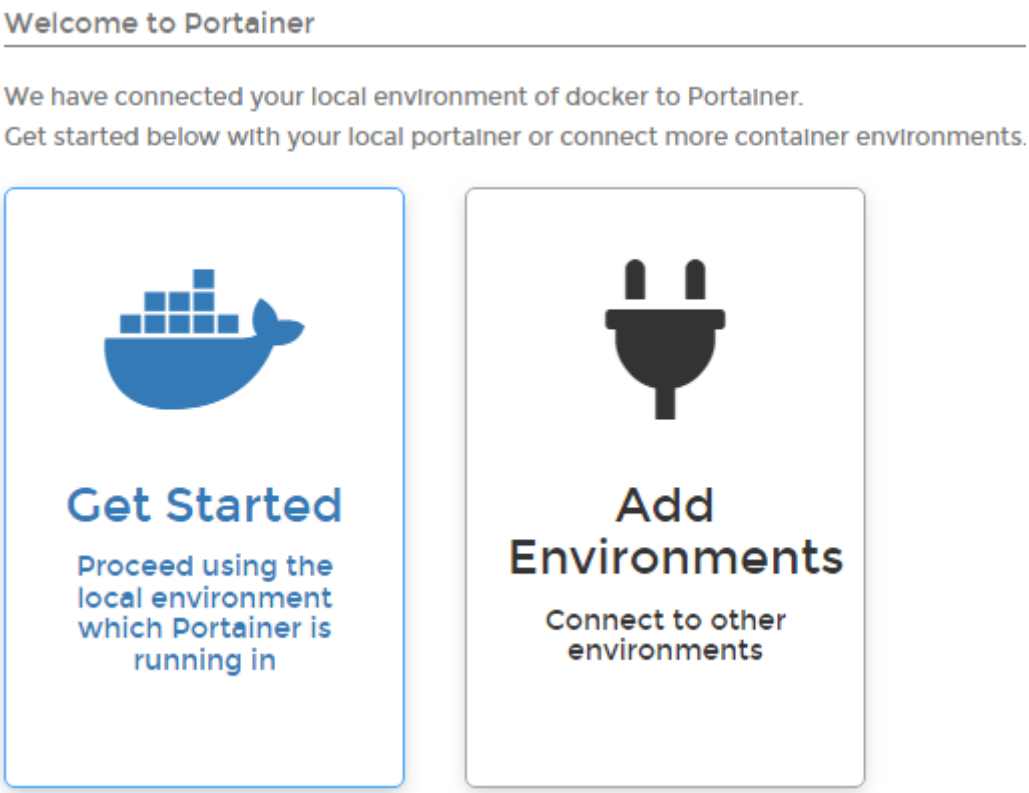
To change to business edition, use image **portainer/portainer-ee**. You can get up to 5 nodes for free.

Setup

Create a administrator user, for example admin.



Then select **Get Started** to use the local docker installation.



SilverStrike - Finance manager

Summary

SilverStrike is a finance management tool. The documentation can be found at silverstrike.org.

Installation via docker-compose behind traefik proxy

The service is split up in the service itself and a postgres database.

```
silverstrike_web:
  environment:
    - ALLOWED_HOSTS='*'
    - DATABASE_URL=postgres://silverstrike:DATABASEPASSWORD@silverstrike_db/silverstrikedb
    - SECRET_KEY=SECRETKEY
  image: simhnna/silverstrike
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.silverstrike.rule=Host(`silverstrike.domain.com`)"
    - "traefik.http.routers.silverstrike.entrypoints=websecure"
    - "traefik.http.routers.silverstrike.tls=true"
    - "traefik.http.services.silverstrike.loadBalancer.server.port=8000"
    - "traefik.docker.network=traefik"
  networks:
    - traefik
    - personal_local
  restart: always
```

```
silverstrike_db:
  environment:
    - POSTGRES_DB=silverstrikedb
    - POSTGRES_USER=silverstrike
    - POSTGRES_PASSWORD=secretpass
  image: postgres:10.3
  volumes:
```

```
    - /path/to/data:/var/lib/postgresql/data
  networks:
    - personal_local
  restart: always
```

Traefik V2

```
services:
  silverstrike:
    environment:
      - ALLOWED_HOSTS='*'
      - DATABASE_URL=postgres://silverstrike:secretpass@database/silverstrikedb
      - SECRET_KEY=pass
    image: simhnna/silverstrike
    links:
      - database:database
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.silverstrike.rule=Host(`budget.domain.com`)"
      - "traefik.http.routers.silverstrike.entrypoints=web-insecure"
      - "traefik.http.routers.silverstrike.middlewares=redirect@file"
      - "traefik.http.routers.silverstrike-secured.rule=Host(`budget.domain.com`)"
      - "traefik.http.routers.silverstrike-secured.tls=true"
      - "traefik.http.routers.silverstrike-secured.tls.certResolver=main"
      - "traefik.http.routers.silverstrike-secured.entrypoints=web-secure"
      - "traefik.docker.network=webv2"
      - "traefik.http.services.silverstrike.loadBalancer.server.port=8000"
    networks:
      - webv2
  database:
    environment:
      POSTGRES_DB: silverstrikedb
      POSTGRES_USER: silverstrike
      POSTGRES_PASSWORD: secretpass
    image: postgres:10.3
    volumes:
      - /path/to/db:/var/lib/postgresql/data
    networks:
      - webv2
```

SSHwifty - Web ssh and telnet client

Summary

Web client to use ssh and telnet in your browser.

Installation via docker-compose behind traefik proxy

```
sshwifty:
  image: niruix/sshwifty:latest
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.ssh.rule=Host(`ssh.domain.tld`)"
    - "traefik.http.routers.ssh.entrypoints=websecure"
    - "traefik.http.routers.ssh.tls=true"
    - "traefik.http.services.ssh.loadBalancer.server.port=8182"
    - "traefik.docker.network=traefik"
  networks:
    - traefik
  restart: always
```

SVN Server - Software Versioning System

Summary

The SVN Server is a software versioning system based on subversion used to maintain current and historical versions of software.

Installation via docker-compose behind traefik proxy

```
svnserver:
  image: elleflorio/svn-server
  restart: always
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.svn.rule=Host(`svn.yourdomain.com`)"
    - "traefik.http.routers.svn.entrypoints=websecure"
    - "traefik.http.routers.svn.tls=true"
    - "traefik.http.services.svn.loadBalancer.server.port=80"
    - "traefik.docker.network=traefik"
  volumes:
    - /path/to/data:/home/svn
    - /path/to/data/passwd:/etc/subversion/passwd
  ports:
    - 3690:3690
  networks:
    - traefik
```

Another install

```
svnserver:
  image: elleflorio/svn-server:issue-12
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.svn.rule=Host(`svn.domain.com`)"
    - "traefik.http.routers.svn.entrypoints=web-insecure"
```

```
  - "traefik.http.routers.svn.middlewares=redirect@file"
  - "traefik.http.middlewares.svn.replacepathregex.regex=^/$$"
  - "traefik.http.middlewares.svn.replacepathregex.replacement=/svn"
  - "traefik.http.routers.svn-secured.middlewares=svn@docker"
  - "traefik.http.routers.svn-secured.rule=Host(`svn.domain.com`)"
  - "traefik.http.routers.svn-secured.tls=true"
  - "traefik.http.routers.svn-secured.tls.certResolver=main"
  - "traefik.http.routers.svn-secured.entrypoints=web-secure"
  - "traefik.docker.network=webv2"
  - "traefik.http.services.svn.loadBalancer.server.port=80"
restart: always
ports:
  - 3690:3690
volumes:
  - "/path/to/svn:/home/svn"
  - "/path/to/passwd:/etc/subversion/passwd"
  - "/path/to/subversion-access-control:/etc/subversion/subversion-access-control"
networks:
  - webv2
```

Teamspeak Server for Raspberry Pi

Summary

A teamspeak server to run on a raspberry pi.

Installation via docker-compose behind traefik proxy

```
version: "3"
networks:
  social:
     name: social
volumes:
  social_teamspeak_data:
    external: true
services:
  ts3-server:
    image: ertagh/teamspeak3-server:latest-box
    restart: unless-stopped
    ports:
      - 9987:9987/udp
      - 10011:10011
      - 30033:30033
    environment:
      TS_UPDATE: 1
      TS_UPDATE_BACKUP: 1
      TIME_ZONE: Europe/Berlin
      UID: 1000
      GID: 1000
    volumes:
      - social_teamspeak_data:/teamspeak/save/
    networks:
      - social
```

Traefik with OID Keycloak

```
version: '2'

networks:
  traefik:
    name: traefik

volumes:
  docker_networking_keycloak_postgresdata:
    external: true
  docker_networking_traefik_acme:
    external: true
  docker_networking_traefik_rules:
    external: true
  docker_networking_traefik_logs:
    external: true
  docker_networking_keycloak_postgresbackup:
    external: true

services:
  traefik:
    image: traefik
    restart: always
    networks:
      - traefik
    command:
      - --pilot.token=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
      - --entrypoints.web.address=:80
      - --entrypoints.websecure.address=:443
      - --entryPoints.ws.address=:8081
      - --entryPoints.wss.address=:8083
      - --providers.docker
      - --providers.docker.exposedByDefault=false
      - --providers.file.directory=/config/
      - --api
      - --log.filePath=logs/log.txt
```

```
  - --log.format=json
  - --log.level=DEBUG
  - --accesslog=true
  - --accesslog.filepath=/logs/access.log
  - --certificatesresolvers.leresolver.acme.email=xxxxxxxxxxxxxx@mail.com
  - --certificatesresolvers.leresolver.acme.storage=/acme/acme.json
  - --certificatesresolvers.leresolver.acme.dnschallenge=true
  - --certificatesresolvers.leresolver.acme.dnschallenge.provider=namedotcom
  - --certificatesresolvers.leresolver.acme.dnschallenge.resolvers=163.114.216.17

environment:
  - NAMECOM_USERNAME=xxxxxxxxxxxxxx
  - NAMECOM_API_TOKEN=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
  - NAMECOM_SERVER=api.name.com

ports:
  - "80:80"
  - "443:443"
  - "8081:8081"
  - "8083:8083"
volumes:
  - "/var/run/docker.sock:/var/run/docker.sock:ro"
  - docker_networking_traefik_logs:/logs/
  - docker_networking_traefik_acme:/acme/
  - docker_networking_traefik_rules:/config/
labels:
  # Dashboard
  - "traefik.enable=true"
  - "traefik.http.routers.traefik.rule=Host(`traefik.domain.com`)"
  - "traefik.http.routers.traefik.service=api@internal"
  - "traefik.http.routers.traefik.entrypoints=websecure"
  - "traefik.http.routers.traefik.middlewares=traefik-forward-auth"
  - "traefik.http.routers.traefik.tls=true"

  # global redirect to https
  - "traefik.http.routers.http-catchall.rule=hostregexp(`{host:.+}`)"
  - "traefik.http.routers.http-catchall.entrypoints=web"
  - "traefik.http.routers.http-catchall.middlewares=redirect-to-https"

  # middleware redirect
```

```
    - "traefik.http.middlewares.redirect-to-https.redirectscheme.scheme=https"

    # traefik network
    - "traefik.docker.network=traefik"

    # global wildcard certificates
    - 'traefik.http.routers.wildcard-certs.tls.certresolver=leresolver'
    - 'traefik.http.routers.wildcard-certs.tls.domains[0].main=domain.com'
    - 'traefik.http.routers.wildcard-certs.tls.domains[0].sans=*.domain.com'
  extra_hosts:
    - host.docker.internal:172.1.1.1
keycloak:
  image: mihaibob/keycloak:15.0.1
  restart: always
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.keycloak.rule=Host(`keycloak.domain.com`)"
    - "traefik.http.routers.keycloak.entrypoints=websecure"
    - "traefik.http.routers.keycloak.tls=true"
    - "traefik.http.services.keycloak.loadBalancer.server.port=8080"
    - "traefik.docker.network=traefik"
  networks:
    - traefik
  environment:
    - KEYCLOAK_USER=admin
    - KEYCLOAK_PASSWORD=xxxxxxxxxxxxxxxxxxxxxxxxxxxxx
    - PROXY_ADDRESS_FORWARDING=true
    - KEYCLOAK_HOSTNAME=keycloak.domain.com
    - DB_VENDOR=POSTGRES
    - DB_ADDR=postgres
    - DB_DATABASE=keycloak
    - DB_USER=keycloak
    - DB_SCHEMA=public
    - DB_PASSWORD=xxxxxxxxxxxxxxxxxxxxxxxxxxxx
  depends_on:
    - postgres
postgres:
  user: "65534:100"
  image: postgres:13.4
  restart: unless-stopped
```

```
    volumes:
      - docker_networking_keycloak_postgresdata:/var/lib/postgresql/data
    environment:
      - PGDATA=/var/lib/postgresql/data/keycloak
      - POSTGRES_DB=keycloak
      - POSTGRES_USER=keycloak
      - POSTGRES_PASSWORD=xxxxxxxxxxxxxxxxxxxxxxxxxxxx
    networks:
      - traefik
#-------------------------------------------------------------------------Keycloak-Postgres-
Backup-----------------------------------------------
  pgbackups:
    image: prodrigestivill/postgres-backup-local
    restart: always
    volumes:
      - docker_networking_keycloak_postgresbackup:/backups
    links:
      - postgres
    depends_on:
      - postgres
    environment:
      - POSTGRES_HOST=postgres
      - POSTGRES_DB=keycloak
      - POSTGRES_USER=keycloak
      - POSTGRES_PASSWORD=xxxxxxxxxxxxxxxxxxxxxxxxxxxx
      - SCHEDULE=@daily
      - BACKUP_KEEP_DAYS=7
      - BACKUP_KEEP_WEEKS=4
      - BACKUP_KEEP_MONTHS=6
      - HEALTHCHECK_PORT=8080
    networks:
      - traefik
    healthcheck:
      test: curl --fail http://localhost:8080 || exit 1
      interval: 5m
      retries: 5
      start_period: 20s
      timeout: 10s
  traefik-forward-auth:
    image: thomseddon/traefik-forward-auth:2-arm64
```

```
restart: unless-stopped
command:
  - "--default-provider=oidc"
  - "--providers.oidc.issuer-url=https://keycloak.domain.com/auth/realms/master"
  - "--providers.oidc.client-id=traefik-forward-auth"
  - "--providers.oidc.client-secret=xxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  - "--secret=xxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  - "--insecure-cookie"
  - "--cookie-domain=domain.com"
  - "--auth-host=auth.domain.com"
  - "--log-level=debug"
labels:
  - "traefik.enable=true"
  - "traefik.http.routers.traefik-forward-auth.rule=Host(`auth.domain.com`)"
  - "traefik.http.services.traefik-forward-auth.loadbalancer.server.port=4181"
  - "traefik.http.routers.traefik-forward-auth.entrypoints=websecure"
  - "traefik.http.routers.traefik-forward-auth.tls=true"
  - "traefik.docker.network=traefik"
  - "traefik.http.routers.traefik-forward-auth.middlewares=traefik-forward-auth"
  - "traefik.http.middlewares.traefik-forward-auth.forwardauth.address=http://traefik-forward-auth:4181"
  - "traefik.http.middlewares.traefik-forward-auth.forwardauth.authResponseHeaders=X-Forwarded-User"
  - "traefik.http.middlewares.traefik-forward-auth.forwardauth.trustForwardHeader=true"
networks:
  - traefik
depends_on:
  - keycloak
```

wbo - Collaborative whiteboard

Summary

WBO is a collaborative whiteboard service. The documentation can be found at lovasoa/whitebophir
.

Installation via docker-compose behind traefik proxy

```
whiteboard:
  image: lovasoa/wbo:latest
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.whiteboard.rule=Host(`whiteboard.yourdomain.com`)"
    - "traefik.http.routers.whiteboard.entrypoints=websecure"
    - "traefik.http.routers.whiteboard.tls=true"
    - "traefik.http.services.whiteboard.loadBalancer.server.port=80"
    - "traefik.docker.network=traefik"
  networks:
    - traefik
  restart: always
  volumes:
    - "/path/to/data:/opt/app/server-data"
```

wger - Workout Manager

Summary

A workout manager to plan your training routines and track your eating habits.

Installation via docker-compose behind traefik proxy

```
wger_web:
  image: wger/devel:2.0-dev
  volumes:
    - /path/to/folder/:/home/wger/static
    - /path/to/folder2/:/home/wger/media
  environment:
    - DJANGO_DB_ENGINE=django.db.backends.postgresql
    - DJANGO_DB_DATABASE=wger
    - DJANGO_DB_USER=wger
    - DJANGO_DB_PASSWORD=DBPASSWORD
    - DJANGO_DB_HOST=wger_db
    - DJANGO_DB_PORT=5432
    - DJANGO_CACHE_BACKEND=django_redis.cache.RedisCache
    - DJANGO_CACHE_LOCATION=redis://wger_cache:6379/1
    - DJANGO_CACHE_TIMEOUT=1300000
    - DJANGO_CACHE_CLIENT_CLASS=django_redis.client.DefaultClient
    - DJANGO_DEBUG=False
    - WGER_USE_GUNICORN=True
  depends_on:
    - wger_db
    - wger_cache
  networks:
    - personal_local
  restart: always
wger_nginx:
  image: nginx
  volumes:
    - /path/to/folder/:/wger/static:ro
    - /path/to/folder2/:/wger/media:ro
    - /path/to/folder3/nginx.conf:/etc/nginx/conf.d/default.conf
```

```
  depends_on:
    - wger_web
  networks:
    - traefik
    - personal_local
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.wger.rule=Host(`wger.domain.com`)"
    - "traefik.http.routers.wger.entrypoints=websecure"
    - "traefik.http.routers.wger.tls=true"
    - "traefik.http.services.wger.loadBalancer.server.port=80"
    - "traefik.docker.network=traefik"
  restart: always
wger_db:
  image: postgres:12.0-alpine
  volumes:
    - /home/agreiner/dockerData/personal/wger/db:/var/lib/postgresql/data/
  environment:
    - POSTGRES_USER=wger
    - POSTGRES_PASSWORD=DBPASSWORD
    - POSTGRES_DB=wger
  networks:
    - personal_local
  restart: always
wger_cache:
  restart: always
  image: redis:latest
  networks:
    - personal_local
```

XWiki - A extendable wiki service

Summary

XWiki is a wiki service built on java, which offers a lot of extendability through java plugins.

Installation via docker-compose behind traefik proxy

```
xwiki_service:
    image: "xwiki:lts-postgres-tomcat"
    restart: always
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.wiki.rule=Host(`wiki.domain.tld`)"
      - "traefik.http.routers.wiki.entrypoints=websecure"
      - "traefik.http.routers.wiki.tls=true"
      - "traefik.http.services.wiki.loadBalancer.server.port=8080"
      - "traefik.docker.network=traefik"
    environment:
      - DB_USER=USERNAME
      - DB_PASSWORD=PASSWORD
      - DB_DATABASE=DB
      - DB_HOST=xwiki_db
    volumes:
      - /PATH/TO/FOLDER/data:/usr/local/xwiki
    networks:
      - cmas_local
      - traefik
  xwiki_db:
    image: "postgres:12-alpine"
    restart: always
    volumes:
      - /PATH/TO/FOLDER/db:/var/lib/postgresql/data
    environment:
      - POSTGRES_ROOT_PASSWORD=DB_ROOT_PASSWORD
```

```
  - POSTGRES_PASSWORD=PASSWORD
  - POSTGRES_USER=USERNAME
  - POSTGRES_DB=xwiki
  - POSTGRES_INITDB_ARGS="--encoding=UTF8"
networks:
  - cmas_local
```

GMOD TTT - A trouble in terrorist town game server

Summary

Trouble in Terrorist Town is a gamemode for Garry's Mod involving innocent people and traitors. This is a game server for said mode.

Installation via docker-compose

```
services:
  ttt:
    image: jusito/docker-ttt:gmod_ttt_debian
    ports:
      - "27015:27015/udp"
      - "27015:27015/tcp"
    environment:
      - SERVERPORT=27015
      - INSTALL_CSS=true
      - WORKSHOP_COLLECTION_ID=1957242851
      #- WORKSHOP_COLLECTION_ID=2267908973
      - SERVER_NAME=SERVERNAME
      - SERVER_DEFAULT_MAP=ttt_bb_teenroom_b2
      - SERVER_RCON_PASSWORD=RCONPASSWORD
    volumes:
      - "/PATH/TO/FOLDER/ttt:/home/steam/serverfiles"
```

Minecraft Servers

FTB Unlimited Reloaded

```
ftbunlimitedreloaded:
  image: jusito/docker-ftb-alpine:FTBUltimateReloaded-1.9.0-1.12.2
  environment:
    - ADMIN_NAME=<MCUSERNAME>
    - motd=<MOTD>
    - online_mode=false
    - JAVA_PARAMETERS=-Xms4G -Xmx4G -XX:+UnlockExperimentalVMOptions -XX:+UseG1GC -
XX:+UseStringDeduplication -XX:+UseCGroupMemoryLimitForHeap -Dio.netty.leakDetection.level=advanced
  ports:
    - "25565:25565"
  volumes:
    - "/PATH/TO/FOLDER/data:/home/docker"
  restart: always
```

Vanilla

```
minecraft_1_19_3:
  image: itzg/minecraft-server:latest
  ports:
    - "25555:25555"
  environment:
    - EULA=TRUE
    - MOTD="-"
    - SERVER_NAME=""
    - TYPE=PAPER
    - VERSION=1.19.3
    - MEMORY=6G
    - INIT_MEMORY=1G
    - MAX_MEMORY=10G
    - ENFORCE_WHITELIST=true
  volumes:
    - "/PATH/TO/FOLDER/data:/data"
  restart: unless-stopped
```

```
  tty: true
  stdin_open: true
```

Curseforge Modded

```
  minecraft_1_19_2_modded:
    image: itzg/minecraft-server:latest
    ports:
      - "25565:25565"
    environment:
      - EULA=TRUE
      - MOTD="-"
      - SERVER_NAME=""
      - TYPE=AUTO_CURSEFORGE
      - VERSION=1.19.2
      - MEMORY=6G
      - INIT_MEMORY=1G
      - MAX_MEMORY=10G
      - ENFORCE_WHITELIST=true
      - CF_SLUG=bbou-server
    volumes:
      - "/PATH/TO/FOLDER/data:/data"
    restart: unless-stopped
    tty: true
    stdin_open: true
```

Automatic Backups

```
backup_minecraft_1_19_2_modded:
  image: itzg/mc-backup
  restart: unless-stopped
  environment:
    BACKUP_INTERVAL: "4h"
    PRUNE_BACKUPS_DAYS: "5"
  volumes:
    - /PATH/TO/MC/SERVER/data:/data:ro
    - /PATH/TO/BACKUPS:/backups
  network_mode: "service:mc_server"
```

Authelia - SSO provider

docker-compose.yml

```
version: '2'

networks:
  traefik:
    name: traefik
    external: true
volumes:
  networking_authelia_config:
    external: true
  authelia:
    image: authelia/authelia
    restart: unless-stopped
    networks:
      - traefik
    expose:
      - 9091
    volumes:
      - networking_authelia_config:/config
    environment:
      - TZ=Europe/Berlin
    labels:
      - 'traefik.enable=true'
      - 'traefik.http.routers.authelia.rule=Host(`auth.domain.com`)'
      - 'traefik.http.routers.authelia.entryPoints=websecure'
      - 'traefik.http.routers.authelia.tls=true'
      - "traefik.http.services.authelia.loadBalancer.server.port=9091"
      -
'traefik.http.middlewares.authelia.forwardAuth.address=http://authelia:9091/api/verify?rd=https%3A%2F%2Fauth.domain.com%2F'
      - 'traefik.http.middlewares.authelia.forwardAuth.trustForwardHeader=true'
      - 'traefik.http.middlewares.authelia.forwardAuth.authResponseHeaders=Remote-User,Remote-Groups,Remote-Name,Remote-Email'
      - 'traefik.http.middlewares.authelia-basic.forwardAuth.address=http://authelia:9091/api/verify?auth=basic'
```

```
    - 'traefik.http.middlewares.authelia-basic.forwardAuth.trustForwardHeader=true'
    - 'traefik.http.middlewares.authelia-basic.forwardAuth.authResponseHeaders=Remote-User,Remote-Groups,Remote-Name,Remote-Email'
```

Generate password

```
docker run authelia/authelia:latest authelia crypto hash generate argon2 --password '<PASSWORD>'
```

Kutt - A URL shortener

Usefull commands

```
psql -U user kutt


SELECT verification_token FROM users;
```

IceCoder - A web-based IDE

Installation via docker-compose behind traefik proxy

```
icecoder:
  image: greinet/httpd-php-icecoder
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.icecoder.rule=Host(`icecoder.domain.com`)"
    - "traefik.http.routers.icecoder.entrypoints=web-insecure"
    - "traefik.http.routers.icecoder.middlewares=redirect@file"
    - "traefik.http.routers.icecoder-secured.rule=Host(`icecoder.domain.com`)"
    - "traefik.http.routers.icecoder-secured.tls=true"
    - "traefik.http.routers.icecoder-secured.tls.certResolver=main"
    - "traefik.http.routers.icecoder-secured.entrypoints=web-secure"
    - "traefik.docker.network=webv2"
    - "traefik.http.services.icecoder.loadBalancer.server.port=80"
  networks:
    - webv2
  restart: always
```

Neko - A browser in the browser

Docker compose

```
neko:
  environment:
    DISPLAY: :99.0
    NEKO_PASSWORD: nekopw
    NEKO_PASSWORD_ADMIN: adminpw
    NEKO_BIND: :8080
    NEKO_EPR: 59000-59100
  image: nurdism/neko:firefox
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.neko.rule=Host(`neko.domain.com`)"
    - "traefik.http.routers.neko.entrypoints=websecure"
    - "traefik.http.routers.neko.tls=true"
    - "traefik.http.services.neko.loadBalancer.server.port=8080"
    - "traefik.docker.network=traefik"
  networks:
    - traefik
  ports:
    - "59000-59100:59000-59100/udp"
  restart: always
  shm_size: "1gb"
```

Shiori - A bookmark manager

Docker compose

```
shiori:
  image: radhifadlillah/shiori
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.shiori.rule=Host(`bookmarks.domain.com`)"
    - "traefik.http.routers.shiori.entrypoints=web-insecure"
    - "traefik.http.routers.shiori.middlewares=redirect@file"
    - "traefik.http.routers.shiori-secured.rule=Host(`bookmarks.domain.com`)"
    - "traefik.http.routers.shiori-secured.tls=true"
    - "traefik.http.routers.shiori-secured.tls.certResolver=main"
    - "traefik.http.routers.shiori-secured.entrypoints=web-secure"
    - "traefik.docker.network=webv2"
    - "traefik.http.services.shiori.loadBalancer.server.port=8080"
  volumes:
    - /home/agreiner/dockerData/shiori:/srv/shiori
  networks:
    - webv2
```

Gitlab - A git server

Docker compose

```
services:
  gitlab:
    image: 'gitlab/gitlab-ce:latest'
    restart: always
    hostname: 'gitlab'
    labels:
      - "traefik.enable=true"
      - "traefik.docker.network=webv2"
      - "traefik.http.routers.gitlab.rule=Host(`gitlab.domain.com`)"
      - "traefik.http.routers.gitlab.entrypoints=web-insecure"
      - "traefik.http.routers.gitlab.middlewares=redirect@file"
      - "traefik.http.routers.gitlab-secured.rule=Host(`gitlab.domain.com`)"
      - "traefik.http.routers.gitlab-secured.tls=true"
      - "traefik.http.routers.gitlab-secured.tls.certResolver=main"
      - "traefik.http.routers.gitlab-secured.entrypoints=web-secure"
      - "traefik.http.services.gitlab.loadBalancer.server.port=80"
      - "traefik.http.routers.gitlab.service=gitlab"
      - "traefik.http.routers.gitlab-secured.service=gitlab"
      - "traefik.http.routers.gitprom.rule=Host(`gitprom.domain.com`)"
      - "traefik.http.routers.gitprom.entrypoints=web-insecure"
      - "traefik.http.routers.gitprom.middlewares=redirect@file"
      - "traefik.http.routers.gitprom-secured.rule=Host(`gitprom.domain.com`)"
      - "traefik.http.routers.gitprom-secured.tls=true"
      - "traefik.http.routers.gitprom-secured.tls.certResolver=main"
      - "traefik.http.routers.gitprom-secured.entrypoints=web-secure"
      - "traefik.http.services.gitprom.loadBalancer.server.port=9090"
      - "traefik.http.routers.gitprom.service=gitprom"
      - "traefik.http.routers.gitprom-secured.service=gitprom"
    environment:
      GITLAB_OMNIBUS_CONFIG: |
        external_url 'https://gitlab.domain.com'
        nginx['listen_https'] = false
        nginx['listen_port'] = 80
```

```
      prometheus['listen_address'] = 'localhost:9090'
    volumes:
      - /path/to/config:/etc/gitlab
      - /path/to/logs:/var/log/gitlab
      - /path/to/data:/var/opt/gitlab
    networks:
      - webv2

version: "2"
```

RoF/RoD - A ring of death/ring of fire webserver

Docker compose

```
  rodBackup:
    image: agreiner/rod:v4
    ports:
      - 8080:8080
      - 4848:4848
    networks:
      - webv2
  rod:
    image: agreiner/rod:v7
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.rod.rule=Host(`rod.domain.com`)"
      - "traefik.http.routers.rod.entrypoints=web-insecure"
      - "traefik.http.routers.rod.middlewares=redirect@file"
      - "traefik.http.routers.rod-secured.rule=Host(`rod.domain.com`)"
      - "traefik.http.routers.rod-secured.tls=true"
      - "traefik.http.routers.rod-secured.tls.certResolver=main"
      - "traefik.http.routers.rod-secured.entrypoints=web-secure"
      - "traefik.docker.network=webv2"
      - "traefik.http.services.rod.loadBalancer.server.port=8080"
    networks:
      - webv2
  rof:
    image: agreiner/rof:latest
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.rof.rule=Host(`rof.domain.com`)"
      - "traefik.http.routers.rof.entrypoints=web-insecure"
      - "traefik.http.routers.rof.middlewares=redirect@file"
      - "traefik.http.routers.rof-secured.rule=Host(`rof.domain.com`)"
```

```
    - "traefik.http.routers.rof-secured.tls=true"
    - "traefik.http.routers.rof-secured.tls.certResolver=main"
    - "traefik.http.routers.rof-secured.entrypoints=web-secure"
    - "traefik.docker.network=webv2"
    - "traefik.http.services.rof.loadBalancer.server.port=8080"
  networks:
    - webv2
```

Matrix - A full matrix stack

Docker compose

```
  conduit:
    image: matrixconduit/matrix-conduit:latest
    restart: unless-stopped
    networks:
      - traefik
      - matrix_default
    volumes:
      - /path/to/db:/var/lib/matrix-conduit/
    environment:
      - CONDUIT_SERVER_NAME=matrix-domaint.com
      - CONDUIT_DATABASE_PATH=/var/lib/matrix-conduit/
      - CONDUIT_DATABASE_BACKEND=rocksdb
      - CONDUIT_PORT=6167
      - CONDUIT_MAX_REQUEST_SIZE=10000000 # in bytes, ~10 MB
      - CONDUIT_ALLOW_REGISTRATION=false
      - CONDUIT_ALLOW_FEDERATION=true
      - CONDUIT_MAX_CONCURRENT_REQUESTS=5
      - CONDUIT_ALLOW_CHECK_FOR_UPDATES=true
      - CONDUIT_TRUSTED_SERVERS=["matrix.org"]
      - CONDUIT_ADDRESS=0.0.0.0
      - CONDUIT_CONFIG='' # Ignore this
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.matrix.rule=Host(`matrix-domain.com`)"
      - "traefik.http.routers.matrix.entrypoints=websecure"
      - "traefik.http.routers.matrix.tls=true"
      - "traefik.http.routers.matrix.middlewares=cors-headers-matrix@docker"
      - "traefik.http.services.matrix.loadBalancer.server.port=6167"
      - "traefik.docker.network=traefik"
      - "traefik.http.middlewares.cors-headers-matrix.headers.accessControlAllowOriginList=*"
      - "traefik.http.middlewares.cors-headers-matrix.headers.accessControlAllowHeaders=Origin, X-Requested-
With, Content-Type, Accept, Authorization"
      - "traefik.http.middlewares.cors-headers-matrix.headers.accessControlAllowMethods=GET, POST, PUT,
```

```
DELETE, OPTIONS"

  conduit-well-known:
    image: nginx:latest
    restart: unless-stopped
    networks:
      - traefik
    volumes:
      - /path/to/matrix.conf:/etc/nginx/conf.d/matrix.conf # the config to serve the .well-known/matrix files
      - /path/to/www:/var/www/ # location of the client and server .well-known-files
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.matrix-wellknown.rule=Host(`matrix-domain.com`) && PathPrefix(`/.well-
known/matrix`)"
      - "traefik.http.routers.matrix-wellknown.entrypoints=websecure"
      - "traefik.http.routers.matrix-wellknown.tls=true"
      - "traefik.http.routers.matrix-wellknown.middlewares=cors-headers-matrix@docker"
      - "traefik.http.services.matrix-wellknown.loadBalancer.server.port=80"
      - "traefik.docker.network=traefik"
      - "traefik.http.middlewares.cors-headers-matrix.headers.accessControlAllowOriginList=*"
      - "traefik.http.middlewares.cors-headers-matrix.headers.accessControlAllowHeaders=Origin, X-Requested-
With, Content-Type, Accept, Authorization"
      - "traefik.http.middlewares.cors-headers-matrix.headers.accessControlAllowMethods=GET, POST, PUT,
DELETE, OPTIONS"
  element-web:
    image: vectorim/element-web:latest
    restart: unless-stopped
    volumes:
      - /path/to/config.json:/app/config.json
    networks:
      - traefik
    depends_on:
      - conduit
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.element.rule=Host(`element.domain.com`)"
      - "traefik.http.routers.element.entrypoints=websecure"
      - "traefik.http.routers.element.tls=true"
      - "traefik.http.services.element.loadBalancer.server.port=80"
      - "traefik.docker.network=traefik"
```

Actual - A budgeting software

Installation via docker-compose behind traefik proxy

```
services:
  actual_server:
    image: actualbudget/actual-server:latest
    ports:
      - '5006:5006'
    environment:
      - ACTUAL_UPLOAD_FILE_SYNC_SIZE_LIMIT_MB=100
      - ACTUAL_UPLOAD_SYNC_ENCRYPTED_FILE_SYNC_SIZE_LIMIT_MB=200
      - ACTUAL_UPLOAD_FILE_SIZE_LIMIT_MB=100
    volumes:
      - ./actual-data:/data
    restart: unless-stopped
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.budget.rule=Host(`budget.domain.com`)"
      - "traefik.http.routers.budget.entrypoints=websecure"
      - "traefik.http.routers.budget.tls=true"
      - "traefik.http.services.budget.loadBalancer.server.port=5006"
      - "traefik.docker.network=traefik"
    networks:
      - traefik
```

Akaunting - A budgeting software

Installation via docker-compose behind traefik proxy

```
services:
  akaunting:
    image: docker.io/akaunting/akaunting:3.1.4
    labels:
      - "traefik.enable=true"
      - "traefik.http.routers.budget.rule=Host(`budget.domain.com`)"
      - "traefik.http.routers.budget.entrypoints=websecure"
      - "traefik.http.routers.budget.tls=true"
      - "traefik.http.services.budget.loadBalancer.server.port=80"
      - "traefik.docker.network=traefik"
    environment:
      # Use for setup
      - AKAUNTING_SETUP=false
      - APP_INSTALLED=true
      # Further variables
      - APP_URL=https://budget.domain.com
      - LOCALE=de-DE
      - DB_HOST=akaunting-db
      - DB_PORT=3306
      - DB_NAME=akaunting
      - DB_DATABASE=akaunting
      - DB_USERNAME=admin
      - DB_PASSWORD=db_pw
      - DB_PREFIX=domain_
      - COMPANY_NAME=Domain
      - COMPANY_EMAIL=dummy
      - ADMIN_EMAIL=admin@domain.com
      - ADMIN_PASSWORD=pw
      - APP_DEBUG=true
    ports:
```

```
    - 1122:80
  depends_on:
    - akaunting-db
  #volumes:
  #  - akaunting-data:/var/www/html
  networks:
 #    - traefik
    - personal_default
  restart: unless-stopped
akaunting-db:
  image: mariadb:11.1.3
  #volumes:
  #  - akaunting-db:/var/lib/mysql
  restart: unless-stopped
  environment:
    - MYSQL_DATABASE=akaunting
    - MYSQL_USER=admin
    - MYSQL_PASSWORD=db_pw
    - MYSQL_RANDOM_ROOT_PASSWORD=yes
  networks:
    - personal_default
phpmyadmin:
  image: phpmyadmin
  restart: always
  expose:
    - "40001"
  ports:
    - "40001:80"
  environment:
    - PMA_HOST=akaunting-db
    - PMA_PORT=3306
  networks:
    - personal_default
```

Immich - A self-hosted Google Photos alternative

Installation via docker-compose behind traefik proxy

```
version: '2'

networks:
  traefik:
    external: true
  immich_default:
    external: true

volumes:
  immich_server_upload:
    external: true
  immich_postgres_data:
    external: true
  immich_ml_cache:
    external: true
  immich_redis_data:
    external: true

services:
  server:
    image: ghcr.io/immich-app/immich-server:${IMMICH_VERSION}
    command: [ "start.sh", "immich" ]
    volumes:
      - immich_server_upload:/usr/src/app/upload
      - /etc/localtime:/etc/localtime:ro
    environment:
      - DB_HOSTNAME=postgres
      - DB_USERNAME=postgres
      - DB_DATABASE_NAME=immich
      - REDIS_HOSTNAME=redis
```

```
    - DB_PASSWORD=${DB_PASSWORD}
  depends_on:
    - redis
    - postgres
  networks:
    - immich_default
    - traefik
  restart: unless-stopped
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.immich.rule=Host(`immich.domain.com`)"
    - "traefik.http.routers.immich.entrypoints=websecure"
    - "traefik.http.routers.immich.tls=true"
    - "traefik.http.services.immich.loadBalancer.server.port=3001"
    - "traefik.docker.network=traefik"
    # CORS for duplicate finder
    - "traefik.http.routers.immich.middlewares=immich-cors"
    - "traefik.http.middlewares.immich-cors.headers.accessControlAllowOriginList=*"
    - "traefik.http.middlewares.immich-cors.headers.accessControlAllowMethods=GET, PUT, POST, DELETE,
OPTIONS"
    - "traefik.http.middlewares.immich-cors.headers.accessControlAllowHeaders=X-Api-Key, User-Agent,
Content-Type"
    - "traefik.http.middlewares.immich-cors.headers.accessControlMaxAge=1728000"
 microservices:
  image: ghcr.io/immich-app/immich-server:${IMMICH_VERSION}
  command: [ "start.sh", "microservices" ]
  networks:
    - immich_default
  volumes:
    - immich_server_upload:/usr/src/app/upload
    - /etc/localtime:/etc/localtime:ro
  environment:
    - DB_HOSTNAME=postgres
    - DB_USERNAME=postgres
    - DB_DATABASE_NAME=immich
    - REDIS_HOSTNAME=redis
    - DB_PASSWORD=${DB_PASSWORD}
  depends_on:
    - redis
    - postgres
```

```
    restart: unless-stopped
  machine-learning:
    image: ghcr.io/immich-app/immich-machine-learning:${IMMICH_VERSION}
    volumes:
      - immich_ml_cache:/cache
    networks:
      - immich_default
    environment:
      - DB_HOSTNAME=postgres
      - DB_USERNAME=postgres
      - DB_DATABASE_NAME=immich
      - REDIS_HOSTNAME=redis
      - DB_PASSWORD=${DB_PASSWORD}
    restart: unless-stopped
  redis:
    image: redis:6.2-
alpine@sha256:c5a607fb6e1bb15d32bbcf14db22787d19e428d59e31a5da67511b49bb0f1ccc
    restart: unless-stopped
    networks:
      - immich_default
    volumes:
      - immich_redis_data:/data
  postgres:
    image: tensorchord/pgvecto-rs:pg14-
v0.1.11@sha256:0335a1a22f8c5dd1b697f14f079934f5152eaaa216c09b61e293be285491f8ee
    environment:
      POSTGRES_PASSWORD: ${DB_PASSWORD}
      POSTGRES_USER: postgres
      POSTGRES_DB: immich
    volumes:
      - immich_postgres_data:/var/lib/postgresql/data
    networks:
      - immich_default
    restart: unless-stopped
```

Delete duplicates

- Create duplicates database

```
docker container run --rm --volume immich_server_upload:/upload:ro --volume "$PWD:/output/" \
                    ghcr.io/agross/immich-duplicates-findimagedupes --prune \
```

```
--fingerprints /output/dupes.db --recurse --no-compare \
--exclude '\.webp$' /upload/thumbs/<USERID>
```

- Group duplicates

```
docker container run --rm --volume "$PWD:/app/data/" ghcr.io/agross/immich-duplicates-grouper 5
```

- Launch duplicate browser

```
docker container run --env IMMICH_URL=https://immich.domain.com--rm --publish 2222:80
ghcr.io/agross/immich-duplicates-browser
```