

Projekt: Mailserver für nctl.de (Docker + Traefik + Mailu)

Verzeichnisstruktur (empfohlen unter /opt/stacks/mailu)

```
mailu/
├── .env
├── docker-compose.yml
├── mailu.env
├── data/
│   ├── mail/          # Mailspeicher
│   ├── certs/        # Zertifikate
│   └── db/           # MariaDB
```

Datei: `.env`

[snippet.env](#)

```
DOMAIN=nctl.de
HOSTNAME=mail
TZ=Europe/Berlin
POSTMASTER=admin@nctl.de
SECRET=5e8572e2e08a4dd5a44b20d1e4d8cfa6 # Beispiel, mit `openssl rand
-hex 16` erzeugen
```

Datei: `mailu.env`

[snippet.env](#)

```
# Mailu core config
ROOT=/
ADMIN=enabled
WEBMAIL=snappymail
TLS_FLAVOR=mail
HOSTNAMES=imap.nctl.de,smtp.nctl.de,webmail.nctl.de

# Mail settings
POSTMASTER=admin@nctl.de
DOMAIN=nctl.de
```

```
# Authentication
AUTH_RATELIMIT=10/minute;1000/day
PASSWORD_SCHEME=SHA512-CRYPT

# Database
DB_FLAVOR=mysql
DB_HOST=db
DB_USER=mailu
DB_PASSWORD=secretpassword
DB_NAME=mailu

# Proxies
TRUSTED_PROXIES=172.0.0.0/8
```

Datei: `docker-compose.yml`

[snippet.yaml](#)

```
services:

  redis:
    image: redis:alpine
    restart: always
    volumes:
      - "/mailu/redis:/data"
    depends_on:
      - resolver
    dns:
      - 192.168.203.254
    networks:
      - docker_backend

  front:
    image: ${DOCKER_ORG:-ghcr.io/mailu}/${DOCKER_PREFIX:-}
}nginx:${MAILU_VERSION:-2024.06}
    restart: always
    env_file: mailu.env
    logging:
      driver: journald
      options:
        tag: mailu-front
    networks:
      - docker_backend
    volumes:
      - "/mailu/certs:/certs"
      - "/mailu/overrides/nginx:/overrides:ro"
```

```
depends_on:
  - resolver
dns:
  - 192.168.203.254
labels:
  - "traefik.enable=true"
  - "traefik.http.routers.mail.rule=Host(`mail.nctl.de`)"
  - "traefik.http.routers.mail.entrypoints=websecure"
  - "traefik.http.routers.mail.tls.certresolver=letsencrypt"

resolver:
  image: ${DOCKER_ORG:-ghcr.io/mailu}/${DOCKER_PREFIX:-
}unbound:${MAILU_VERSION:-2024.06}
  env_file: mailu.env
  logging:
    driver: journald
    options:
      tag: mailu-resolver
  restart: always
  networks:
    docker_backend:
      ipv4_address: 192.168.203.254

admin:
  image: ${DOCKER_ORG:-ghcr.io/mailu}/${DOCKER_PREFIX:-
}admin:${MAILU_VERSION:-2024.06}
  restart: always
  env_file: mailu.env
  logging:
    driver: journald
    options:
      tag: mailu-admin
  volumes:
    - "/mailu/data:/data"
    - "/mailu/dkim:/dkim"
  depends_on:
    - redis
    - resolver
  dns:
    - 192.168.203.254
  networks:
    - docker_backend
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.admin.rule=Host(`admin.nctl.de`)"
    - "traefik.http.routers.admin.entrypoints=websecure"
    - "traefik.http.routers.admin.tls.certresolver=letsencrypt"

imap:
  image: ${DOCKER_ORG:-ghcr.io/mailu}/${DOCKER_PREFIX:-
}dovecot:${MAILU_VERSION:-2024.06}
```

```
restart: always
env_file: mailu.env
logging:
  driver: journald
  options:
    tag: mailu-imap
volumes:
  - "/mailu/mail:/mail"
  - "/mailu/overrides/dovecot:/overrides:ro"
networks:
  - docker_backend
depends_on:
  - front
  - resolver
dns:
  - 192.168.203.254

smtp:
  image: ${DOCKER_ORG:-ghcr.io/mailu}/${DOCKER_PREFIX:-
}postfix:${MAILU_VERSION:-2024.06}
  restart: always
  env_file: mailu.env
  logging:
    driver: journald
    options:
      tag: mailu-smtp
  volumes:
    - "/mailu/mailqueue:/queue"
    - "/mailu/overrides/postfix:/overrides:ro"
  depends_on:
    - front
    - resolver
  dns:
    - 192.168.203.254
  networks:
    - docker_backend

oletools:
  image: ${DOCKER_ORG:-ghcr.io/mailu}/${DOCKER_PREFIX:-
}oletools:${MAILU_VERSION:-2024.06}
  hostname: oletools
  logging:
    driver: journald
    options:
      tag: mailu-oletools
  restart: always
  networks:
    - docker_backend
  depends_on:
    - resolver
```

```
  dns:
    - 192.168.203.254

  antispam:
    image: ${DOCKER_ORG:-ghcr.io/mailu}/${DOCKER_PREFIX:-}
}rspamd:${MAILU_VERSION:-2024.06}
    hostname: antispam
    restart: always
    env_file: mailu.env
    logging:
      driver: journald
      options:
        tag: mailu-antispam
    networks:
      - docker_backend
    volumes:
      - "/mailu/filter:/var/lib/rspamd"
      - "/mailu/overrides/rspamd:/overrides:ro"
    depends_on:
      - front
      - redis
      - oletools
      - antivirus
      - resolver
  dns:
    - 192.168.203.254

  antivirus:
    image: clamav/clamav-debian:1.4
    restart: always
    logging:
      driver: journald
      options:
        tag: mailu-antivirus
    networks:
      - docker_backend
    volumes:
      - "/mailu/clamav:/var/lib/clamav"
    healthcheck:
      test: ["CMD-SHELL", "kill -0 `cat /tmp/clamd.pid` && kill -0 `cat
/tmp/freshclam.pid`"]
      interval: 10s
      timeout: 5s
      retries: 3
      start_period: 10s

  fetchmail:
    image: ${DOCKER_ORG:-ghcr.io/mailu}/${DOCKER_PREFIX:-}
}fetchmail:${MAILU_VERSION:-2024.06}
    restart: always
    env_file: mailu.env
```

```
logging:
  driver: journald
  options:
    tag: mailu-fetchmail
volumes:
  - "/mailu/data/fetchmail:/data"
depends_on:
  - admin
  - smtp
  - imap
  - resolver
dns:
  - 192.168.203.254
networks:
  - docker_backend

webmail:
  image: ${DOCKER_ORG:-ghcr.io/mailu}/${DOCKER_PREFIX:-}webmail:${MAILU_VERSION:-2024.06}
  restart: always
  env_file: mailu.env
  logging:
    driver: journald
    options:
      tag: mailu-webmail
  volumes:
    - "/mailu/webmail:/data"
    - "/mailu/overrides/roundcube:/overrides:ro"
  networks:
    - docker_backend
  depends_on:
    - front
  labels:
    - "traefik.enable=true"
    - "traefik.http.routers.webmail.rule=Host(`webmail.nctl.de`)"
    - "traefik.http.routers.webmail.entrypoints=websecure"
    - "traefik.http.routers.webmail.tls.certresolver=letsencrypt"

networks:
  docker_backend:
    external: true
```

Wichtige DNS-Einträge:

Typ	Name	Ziel/IP
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A	smtp.nctl.de	<Server-IP>
A	imap.nctl.de	<Server-IP>
A	webmail.nctl.de	<Server-IP>
A	admin.nctl.de	<Server-IP>
MX	@	smtp.nctl.de (Priorität 10)
TXT	@ (SPF)	v=spf1 mx ~all
TXT	_dmarc	v=DMARC1; p=none

Optional: DKIM wird von Mailu automatisch erzeugt, über WebGUI exportierbar.

Fertig! Du kannst den Stack nun mit folgendem Befehl starten:

[snippet.bash](#)

```
cd /opt/stacks/mailu
docker compose up -d
```

Die WebGUI ist danach erreichbar unter: - <https://webmail.nctl.de> (Webmail) - <https://admin.nctl.de>

(Benutzerverwaltung)

From:
<http://wiki.nctl.de/dokuwiki/> - ☐ **Veni. Vidi. sudo rm -rf / vici.**

Permanent link:
<http://wiki.nctl.de/dokuwiki/doku.php?id=it-themen:allgemein:mailserver&rev=1753213423>

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