

hosting mautic on your own open source paas

# SETTING UP MAUTIC IN COOLIFY

## WHO AM I

Head of Data & Analytics  
@VML Germany

Freelance Jack of all Trades Marketing  
@moorwald

Team Lead Marketing Team  
@Mautic



## BEHIND THE CASE

### Automated CSRD Certification

SMEs get their ESG certificate through online questionnaire instead of weeks of consulting

### Helping with Compliance Pressure in B2B Supply Chain

Suppliers to large corporations increasingly need ESG proof, same applies for public tenders and bank communication

### Certificate in <24h

Certificate is immediately ready for download within minutes

### Mautic as central marketing hub

Newsletter campaigns, landing pages, marketing automation, and future whitepaper downloads run on Coolify

### Transactional Emails via API

Certificate downloads, registration confirmations, and password resets are sent directly from the application through Mautic API



## WHAT IT IS

Open-source, self-hostable  
Platform as a Service (PaaS)

Essentially an alternative to  
Heroku, Netlify, and Vercel

You run it on your own  
infrastructure, basically on any  
machine you can ssh into

Personally I host mine (and the  
client's one) on Hetzner VPS  
for < 10€/Month

## PROBLEM IT SOLVES

Eliminates expensive cloud PaaS  
bills

Eliminates vendor lock-in

Provides the same deployment  
convenience (as those proprietary  
cloud services)

Easily deploy apps, databases,  
and 280+ services to any server  
(or servers)

## KEY FEATURES

Git integration (GitHub, GitLab,  
Bitbucket)

Automatic SSL certificates

One-click database/service  
deployments

Works on any hardware - VPS,  
bare metal, Raspberry Pi, or cloud  
instances

No vendor lock-in - all  
configurations saved to your  
server

# AN OVERLY SHORT OVERVIEW OF COOLIFY

# WHY I LIKE USING IT

## Notifications

Email + Pushover when things break or backups succeed

## Wildcard setup

\*.tools subdomain + auto Let's Encrypt = deploy anything in minutes

## 15+ services running

Mautic, Matomo, custom tools, monitoring, DBs, DNS - mail server next

## Variables & secrets

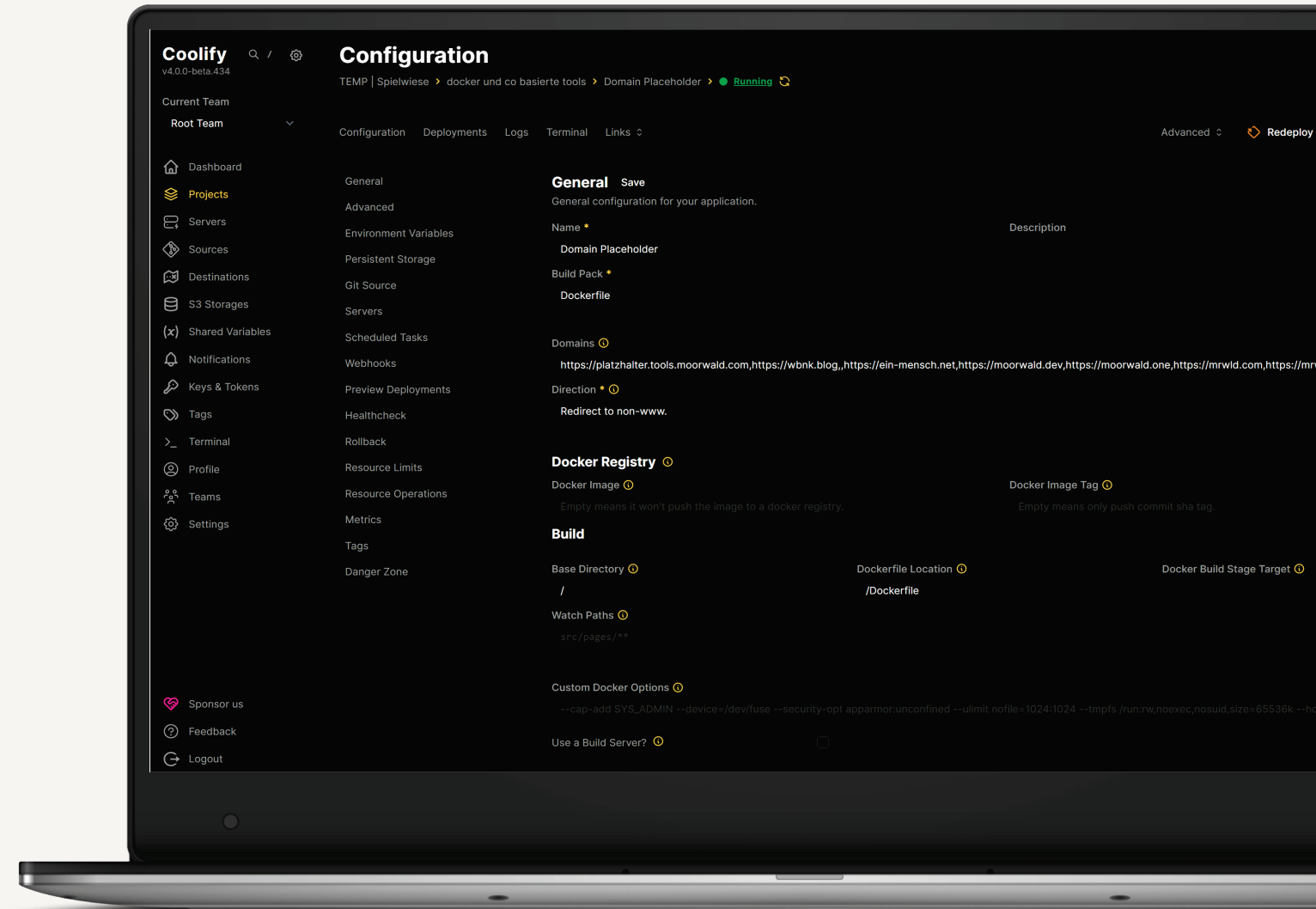
Per-project ENVs, shared secrets, team access, centralized token management

## S3 backups

Set once, forget about it

## Scaling

Quickly & easily add additional servers for additional services/projects, if the need arises



# AVOIDING THE ONE CLICK COMPLEXITY

Or how I recovered from shooting myself in the foot.



# QUEST FOR MORDOR

Two days of trying to get this to work  
Debugging Rabbitmq & Mautic

## Throwing the towel

Finally gave up, decided that I don't need queueing  
and that things must be easier

## Using a Compose File

Decided on a minimal docker compose setup of  
Mautic and MySQL\*

## Cronjobs via UI

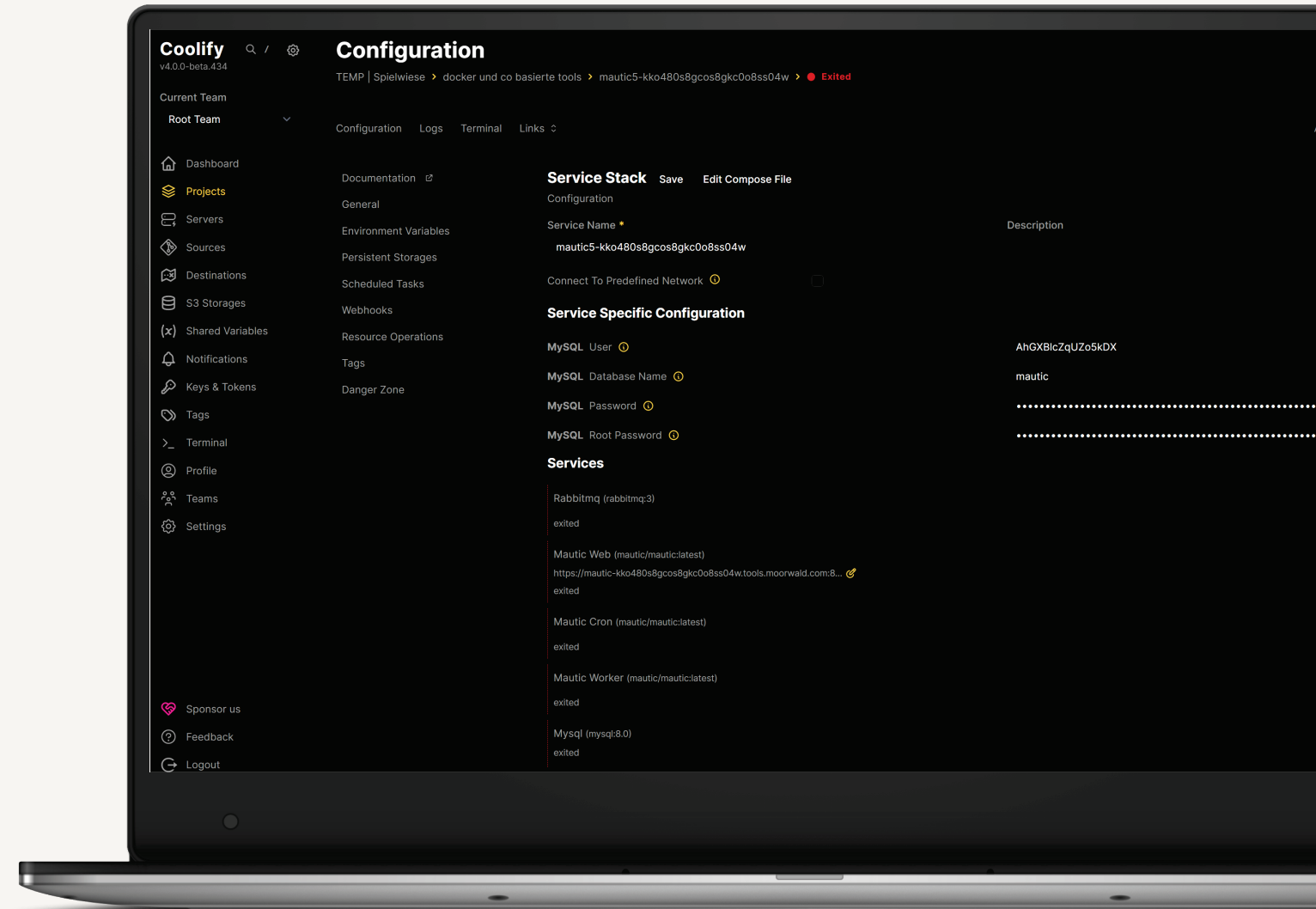
Coolify calls them „Scheduled Task“

## Fit to scale

My client does not have many thousands of contacts  
(hopefully) yet. We'll cross that bridge, when we get  
to it

## Result

Within 30 minutes I was running smoothly and had  
sent my first test mail via Mautic



\* There's a slightly more robust solution at the end

# A MORE EASY SOLUTION

## services:

```
mysql:
  image: 'mysql:8.0'
  environment:
    [[ A FEW ENV VARS]]
  volumes:
    - 'mysql-data:/var/lib/mysql'
  healthcheck:
    [[ healthcheck definition ]]
  networks:
    - default
    - analytics-network
```

## mautic\_web:

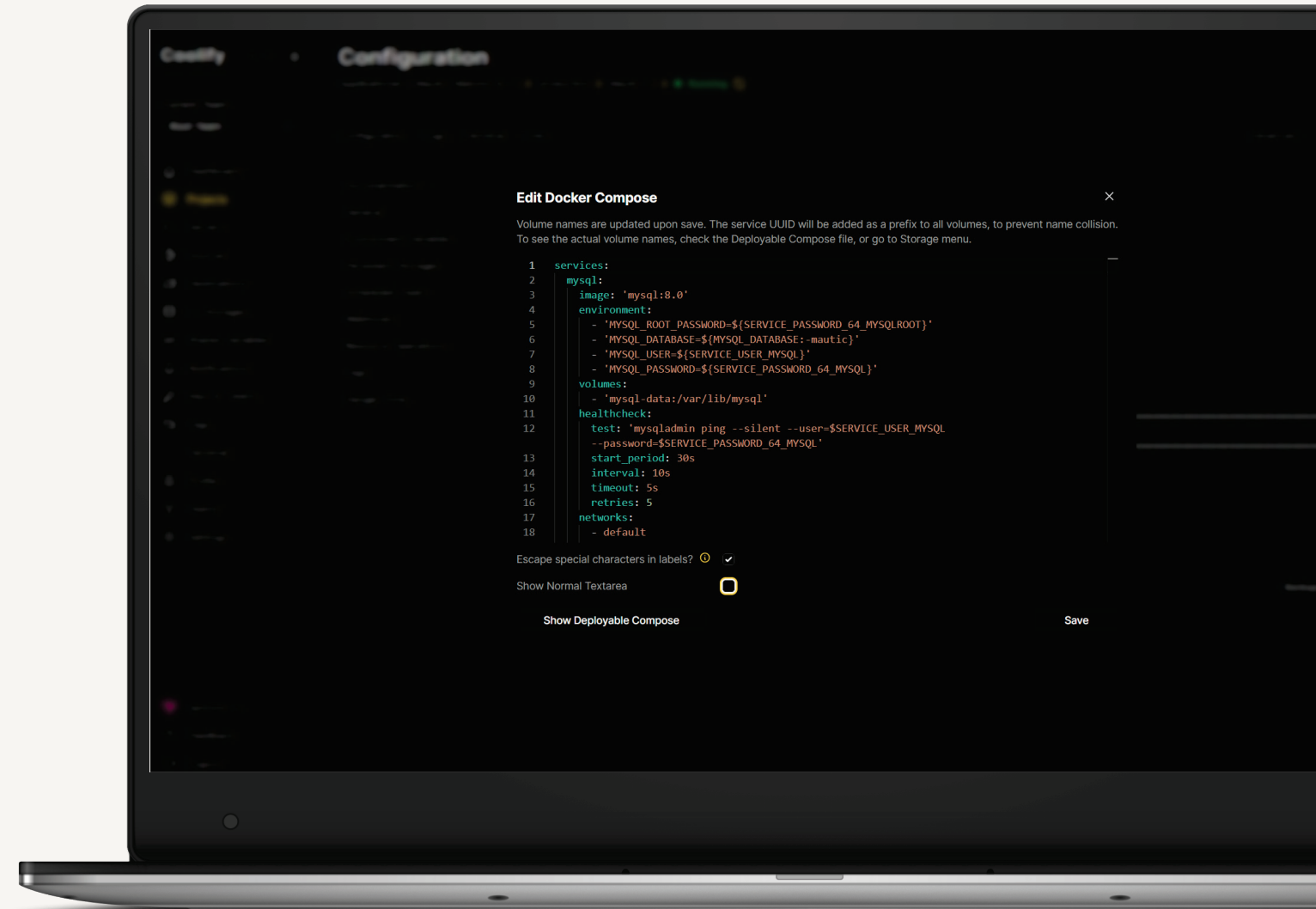
```
image: 'mautic/mautic:latest'
volumes:
  [[ A FEW VOLUMES ]]
environment:
  [[ A FEW ENV VARS]]
healthcheck:
  [[ healthcheck definition ]]
labels:
  [[ A FEW LABELS ]]
```

## volumes:

```
mysql-data: null
mautic-dataconfig: null
mautic-datalogs: null
mautic-datamediafiles: null
mautic-datamediaimages: null
mautic-dataplugins: null
mautic-datathemes: null
mautic-datavendor: null
mautic-databin: null
```

## networks:

```
analytics-network:
  name: analytics-network
  external: false
```





```
mautic_web:
  image: 'mautic/mautic:latest'

  volumes:
    - 'mautic-dataconfig:/var/www/html/config'
    - 'mautic-datalogs:/var/www/html/var/logs'
    - 'mautic-datamediafiles:/var/www/html/docroot/media/files'
    - 'mautic-datamediaimages:/var/www/html/docroot/media/images'
    - 'mautic-dataplugins:/var/www/html/docroot/plugins'
    - 'mautic-datathemes:/var/www/html/docroot/themes'
    - 'mautic-datavendor:/var/www/html/vendor'
    - 'mautic-databin:/var/www/html/bin'

  environment:
    - SERVICE_FQDN_MAUTIC_80
    - 'DOCKER_MAUTIC_LOAD_TEST_DATA=${MAUTIC_LOAD_TEST_DATA:-false}'
    - 'DOCKER_MAUTIC_RUN_MIGRATIONS=${MAUTIC_RUN_MIGRATIONS:-false}'
    - 'MAUTIC_DB_HOST=${MYSQL_HOST:-mysql}'
    - 'MAUTIC_DB_PORT=${MYSQL_PORT:-3306}'
    - 'MAUTIC_DB_DATABASE=${MYSQL_DATABASE:-mautic}'
    - 'MAUTIC_DB_USER=${SERVICE_USER_MYSQL}'
    - 'MAUTIC_DB_PASSWORD=${SERVICE_PASSWORD_64_MYSQL}'
    - 'MAUTIC_MESSENGER_DSN_EMAIL=sync:/'
    - 'MAUTIC_MESSENGER_DSN_HIT=sync:/'

  healthcheck:
    test:
      - CMD
      - curl
      - '-f'
      - 'http://localhost'
    interval: 15s
    timeout: 10s
    retries: 15

  labels:
    - traefik.docker.network=r430kw5wofggs8c0oh4tc8so

mysql:
  image: 'mysql:8.0'
  environment:
    - 'MYSQL_ROOT_PASSWORD=${SERVICE_PASSWORD_64_MYSQLROOT}'
    - 'MYSQL_DATABASE=${MYSQL_DATABASE:-mautic}'
    - 'MYSQL_USER=${SERVICE_USER_MYSQL}'
    - 'MYSQL_PASSWORD=${SERVICE_PASSWORD_64_MYSQL}'

  volumes:
    - 'mysql-data:/var/lib/mysql'

  healthcheck:
    test: 'mysqladmin ping --silent --user=${SERVICE_USER_MYSQL} --password=${SERVICE_PASSWORD_64_MYSQL}'
    start_period: 30s
    interval: 10s
    timeout: 5s
    retries: 5

  networks:
    - default
    - analytics-network

  volumes:
    mysql-data: null
    mautic-dataconfig: null
    mautic-datalogs: null
    mautic-datamediafiles: null
    mautic-datamediaimages: null
    mautic-dataplugins: null
    mautic-datathemes: null
    mautic-datavendor: null
    mautic-databin: null

  networks:
    analytics-network:
      name: analytics-network
      external: false
```

## THE COMPOSE FILE IN DETAIL: MAUTIC & MYSQL

# BETTER THAN CRON?

## Easy Web Interface Management

Scheduled tasks created and edited directly in the browser. No SSH access or manual crontab editing

## Execution History Visible

Past task runs are automatically logged. Shows status, timestamp and duration of recent executions

## Automatic Failure Notifications

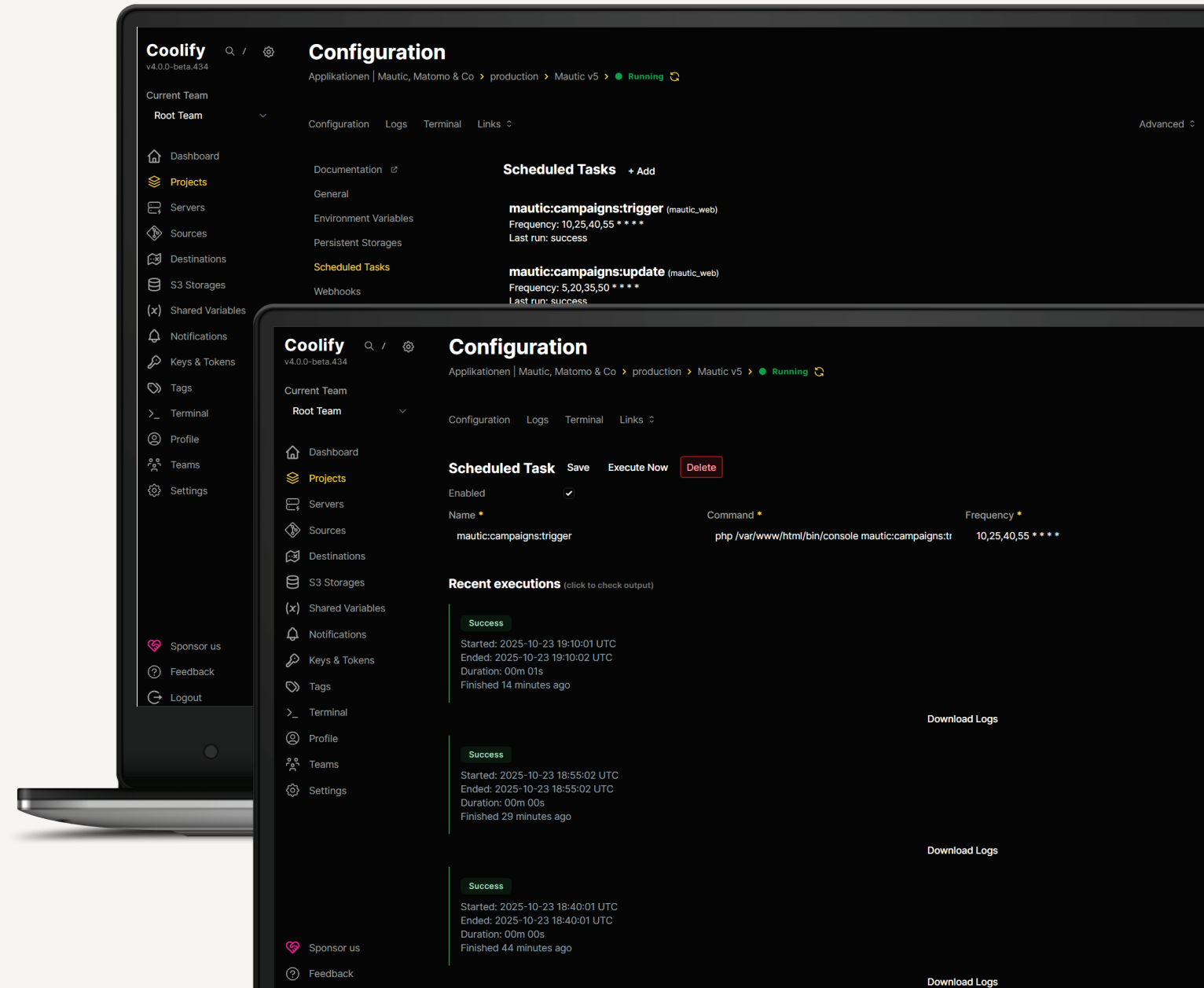
Failed tasks trigger notifications. If a Mautic command fails, you know immediately

## Download Log Files

Output of each execution is stored persistently. Logs can be downloaded directly from the interface as files

## Container Integration Without Workarounds

Tasks run directly in the Mautic container. No separate cron container configuration or volume mounting for cron files



# HOW TO DEPLOY IN COOLIFY

Two viable options...

... to start without the One Click\* Installer

## OPTION 1: HOW IT WORKS

### Copy

Copy your docker-compose.yml to Coolify UI

### Configure

Configure Environment Variables, URL,  
Service Name, Description

Configure Scheduled Tasks, potentially  
Webhooks

### Deploy

Click deploy - Coolify pulls images and starts  
containers

### Update

Updates require manual file edits and  
redeployment

## WHEN WOULD I USE THAT AGAIN?

### Testing and experimentation

Quick iterations without Git overhead or setting up a GitHub App  
(to me the most painful part anytime I need to do that)

### Single instance deployments

Just one Mautic setup to manage

### Simple configurations

No need for version history

### Learning Coolify

Easiest way to get started

### One-person show

You're the only one touching this setup

# DIRECTLY USE A COMPOSE FILE

## OPTION 2: HOW IT WORKS

### Push

Push your docker-compose.yml to a GitHub repository

### Connect

Connect Coolify via GitHub App integration

### Deploy

After the initial deployment, every push to main branch triggers automatic deployment

### Stage

You can easily create a staging setup with a separate branch

### Update

Each and any push (or merge) into main triggers an automated deployment

## WHEN WOULD I USE THAT AGAIN?

### Production environments

If you need an audit trail and reproducibility this option is your friend

### Multiple environments

Easy and identical config for stage and prod environments  
(or with a bit more effort for multiple tenants/domains)

### Team Collaboration

Multiple people working on the setup

### Configuration as Code

Everything is beautifully versioned and documented.

### Backup and disaster recovery

Your infrastructure is already backed up in Git

# GIT OPS IS YOUR FRIEND

# IS THAT ALL THERE IS?

One more thing...



## PLUGINS

### Custom Dockerfile

Setup plugin import in custom Mautic dockerfile

### Working on Filebrowser Solution

Setup filebrowser/filebrowser in coolify

Point to shared (plugin) volume

Start in UI when needed for plugin upload

Shut down to minimize surface area afterwards

### Install

Install plugin via Mautic UI

## UPDATES

I haven't done Mautic updates with this setup yet

Will probably be reporting on hat next year

;-)

## BACKUPS

Overall Coolify DB auto backedup every night

Run DB backups regularly

Create a playground for test-deploying with backup data and config

Optionally: Use Hetzner auto backup (+20% cost)

# GOING ONE STEP FURTHER

# RESULTS

**6 month without a hiccup**

Solution is now running smoothly for > 6 months

**Easy two container setup**

Reduced complexity, great performance

**Inspiration for next iteration**

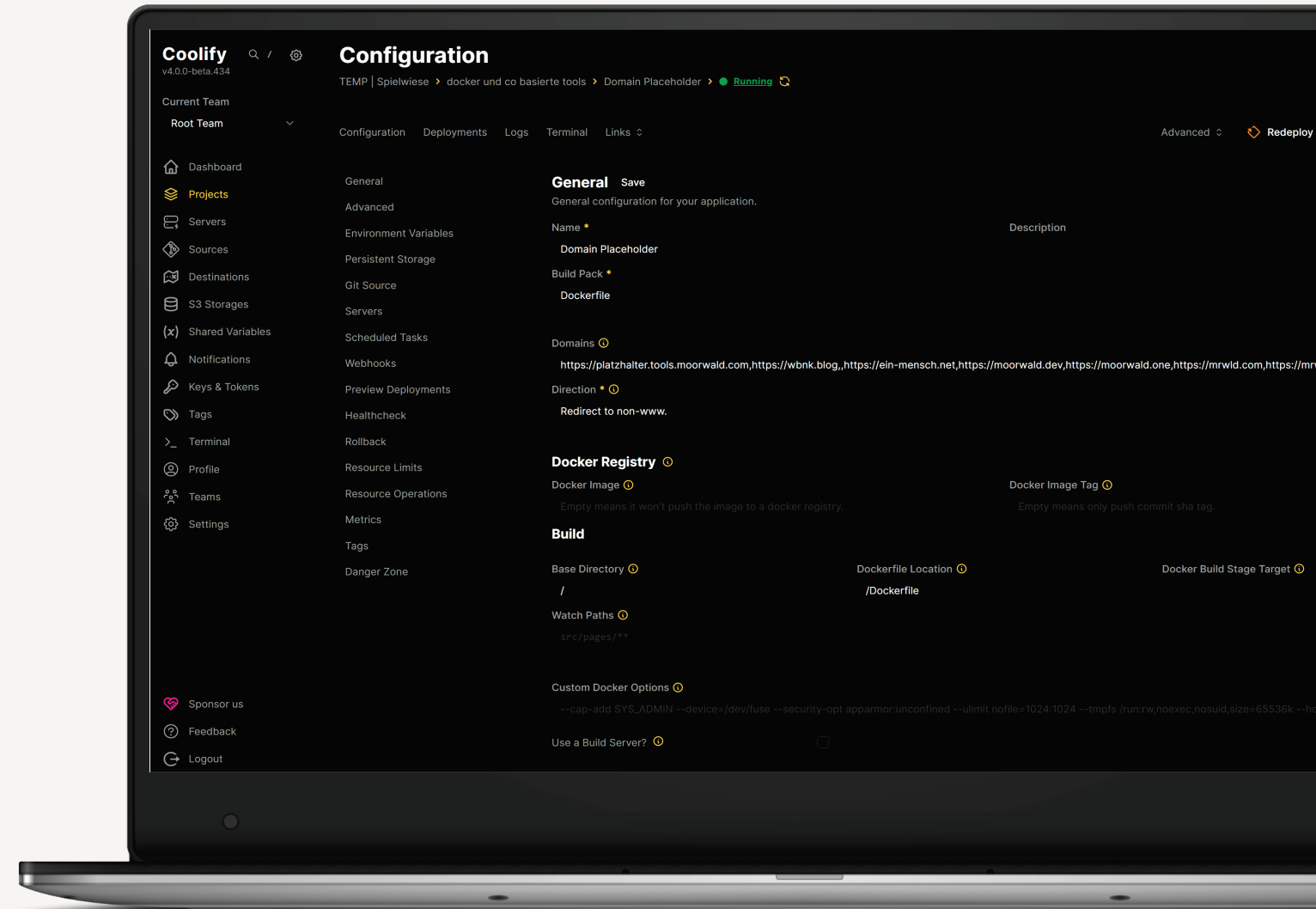
My next iteration will definitely contain an upload capability for plugin files\*

**Never had less trouble with hosting**

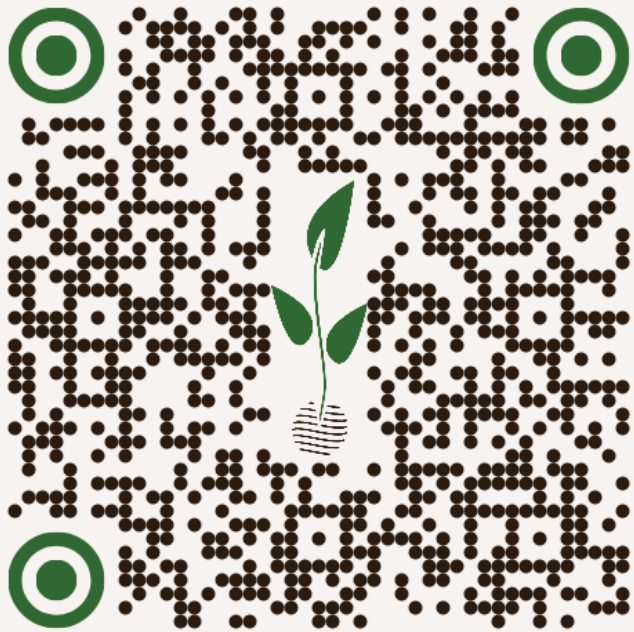
I have never slept better when hosting for clients (or myself actually)

**Happy wife/client, happy life**

Client is happy and I can focus on helping them grow their business



\* If Mautic doesn't gain the file upload capability for plugins like with themes



## Code Repo & Documentation

Github:  
[/moorwald/mautic-world-conference-2025-hosting-mautic-on-coolify](https://github.com/moorwald/mautic-world-conference-2025-hosting-mautic-on-coolify)

Thank you!

# QUESTIONS?