Services

Guides and documentation for miscellaneous services that don't categorize under system.

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Authentik

Docker Healthchecks

Rationale

Use these to verify the health of database containers. This allows me to only run web services when a database is healthy. This prevents us from hiding a silent failure.

MariaDB

```
healthcheck:
  test: ["CMD", "healthcheck.sh", "--connect", "--innodb_initialized"]
  start_period: 10s
  interval: 10s
  timeout: 5s
  retries: 3
```

MySQL

```
healthcheck:
  test: ["CMD", "mysqladmin" ,"ping", "-h", "localhost"]
  timeout: 20s
  retries: 10
```

Postgres

```
healthcheck:
  test: ["CMD", "pg_isready", "-U", "<user>"]
  interval: 30s
  timeout: 20s
  retries: 3
```

Web Services

```
healthcheck:
  test: ["CMD-SHELL", "curl -f http://localhost:3000/api/healthz | grep pass"]
  interval: 1m
  timeout: 2m
  retries: 5
```

If the service has an HTTP endpoint and has the curl binary, use the above to create a healthcheck.

> Use CMD-SHELL as the first token to be able to pipe output from curl to grep

Valkey

```
healthcheck:
  test: ["CMD-SHELL", "valkey-cli ping | grep PONG"]
  start_period: 20s
  interval: 30s
  retries: 5
  timeout: 3s
```

docker-socket-proxy

Use this service to expose the docker socket and protect it from unauthorized operations

Prevent

Required Permissions

authentik

- CONTAINERS
- IMAGES

uptime-kuma

traefik

Samba/SMB

Configuration

My user is set up in unix groups that correspond to the groups outlined in the following config sections and added in the groups `paperless` and `timemachine`.

Paperless-ngx Consumer Share

```
[paperlessngx-consumer]

comment = Paperless-ngx Consumption Directory

path = /path/to/consumer/directory

# Make this share accessible to all users in the paperless group

valid users = @paperless

write list = @paperless

public = no

writable = yes

printable = no
```

Time Machine Share

```
[krypton-timemachine]

comment = Time machine backup share

path = /path/to/time/machine/backups

# Make this share accessible to all users in the timemachine group

valid users = @timemachine

write list = @timemachine

public = no

writable = yes

printable = no
```

searx-ng

HTTP method: use GET to be able to use the back button on websites

Syncthing

Troubleshooting

Django

CSRF verification failed: null does not match any trusted origins

If a django-backed service is sitting behind a reverse proxy, ensure that for referrer policy header, it is passing 'same-origin'.

For example, in traefik's file provider:

```
headers-middleware:
  headers:
    referrerPolicy: same-origin
```

How to upgrade MariaDB inside Docker

```
docker compose exec -it db bash -c "mariadb-upgrade -u root -p"
```

Then enter password