IDVOC - docker-compose



Docker cli limitations

- → Docker cli is a bit limited for some cases
 - Lots of arguments
 - Needs to remember the arguments to restart/change/move the container
 - Can be considered config, but isn't in a config file
 - Against 12 factors



docker-compose

- → Docker-compose translate a config file into docker commands
- → Used to declare statically containers, networks, volumes, ...
- → YAML format
- → docker-compose.yml



docker-compose

- → docker-compose up to create and run the containers
- → docker-compose down to stop and delete the containers
- → docker-compose start/stop to start/stop the containers
- → docker-compose logs to look at containers logs
- → That's most of its CLI usage
- → docker-compose is not a daemon, just a "translator" that reads YML to convert it to docker commands



About docker-compose.yml file

How to write this config file?

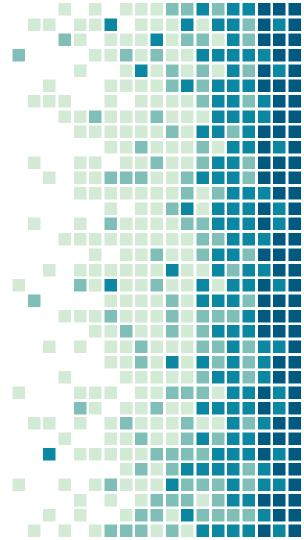


image: netboxcommunity/netbox:v3.0-ldap - postgres - redis env file: netbox.env - 80:8080 - /srv/netbox/media:/opt/netbox/netbox/media image: postgres:13-alpine env_file: postgres.env - netbox-postgres-data:/var/lib/postgresql/data - 5432:5432 image: redis:6-alpine - sh - redis-server --appendonly yes --requirepass \$\$REDIS_PASSWORD ## \$\$ because of docker-compose env file: redis.env - netbox-redis-data:/data netbox-redis-data: {}

docker-compose.yml

→ ~Equivalent to:

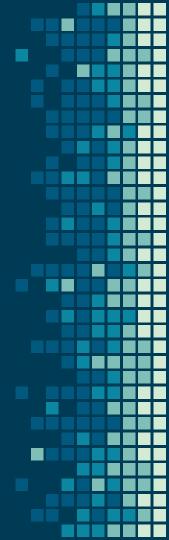
```
• • •
```

1 docker run --name postgres_1 --env-file postgres.env -p 5432:5432 -v netbox-postgres-data:/var/lib/postgresql/data
postgres:13-alpine && docker run --name redis_1 -v netbox-redis-data:/data --env-file redis.env --entrypoint sh redis:6alpine -c redis-server --appendonly yes --requirepass \$REDIS_PASSWORD && docker run --name netbox_1 --env-file netbox.env
--user 101 -p 80:8080 -v /srv/netbox/media:/opt/netbox/netbox/media netboxcommunity/netbox:v3.0-ldap



Thanks!

Questions?



Slides available on zarak.fr/

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