

Using Docker with Storidge's Container-IO



docker compose

docker-compose.yml file example version: '3' services: db: image: mysql:5.7 volumes: - "mysql-data:/var/lib/mysql" # volume name restart: always environment: MYSQL ROOT PASSWORD: wordpress MYSQL DATABASE: wordpress wordpress: depends on: - db image: wordpress:latest links: - db ports: - "8080:80" restart: always environment: WORDPRESS_DB_HOST: db:3306 WORDPRESS DB PASSWORD: wordpress volumes: # map mount point to host volume mysql-data: # volume name

driver: cio # volume plugin

driver opts: #volume options

profile: "MYSQL" # profile name

docker volume cleanup

List unused volume docker volume 1s -f dangling=true Remove all unused volumes docker volume prune



docker volume create

Create docker volume with volume plugin and profile docker volume create --driver cio --name foo --opt profile=GOLD

docker run with -v flag

Launch container with volume from volume plugin cio docker run -it --volume-driver cio -v foo:/tmp --name foo \ alpine sh

docker run with --mount flag

Launch container with volume from volume plugin cio docker run -it \ --mount source=foo,target=/tmp,volume-driver=cio --name foo \ alpine sh

docker service create

--name mysql \

mysql

Deploy service with volume from volume plugin cio docker service create \ --replicas 1 \ --detach=false \ -e MYSQL ROOT PASSWORD=mysecret \ --mount source=mysql-data,target=/var/lib/mysql,volume-driver=cio,volume-opt=profile=MYSQL \

glossary

anonymous – unnamed volume assigned long unique id

bind mount – volume with mount point anywhere on host filesystem

named – volume assigned explicit name when mounted

tmpfs – mount stored in host system memory only

volume – mount type managed by docker in /var/lib/docker

-v, --mount flag

driver - name of volume plugin

opt - volume options

source – name of host volume

target – mount point in container

volume-driver – name of volume plugin

volume-opt – volume options supported by volume plugin