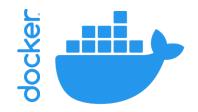




https://github.com/ironboy/docker-idea

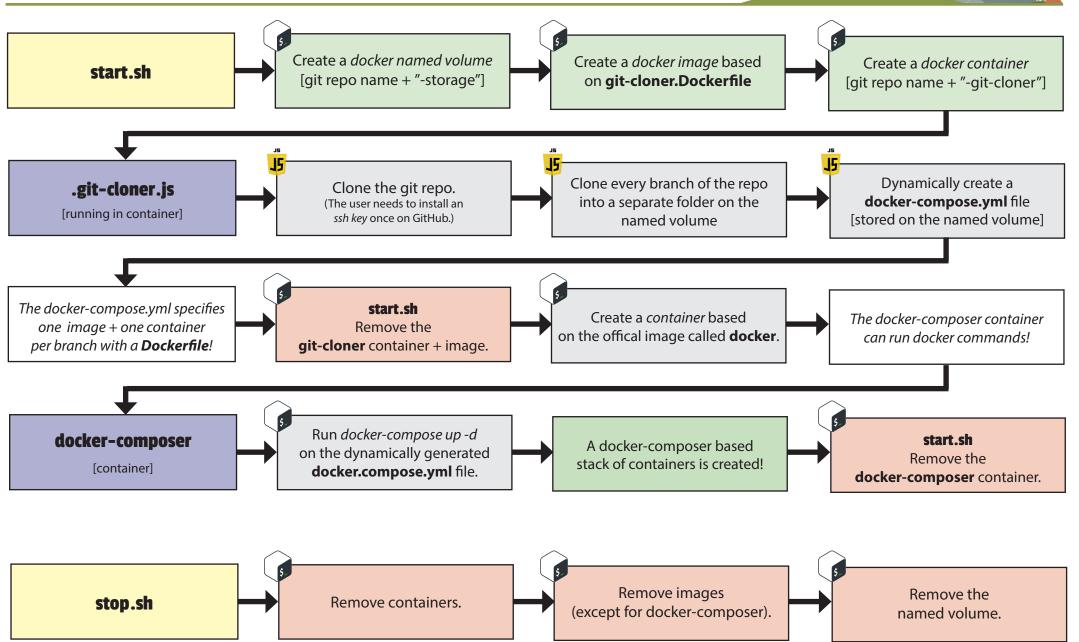




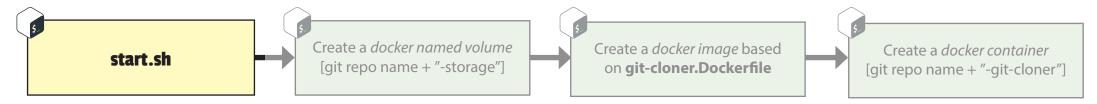












Some initial setup

Getting som directory paths and the name of the repository and the current branch:

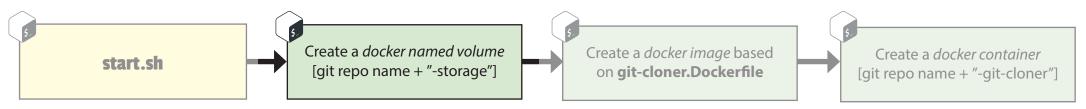
```
#!/bin/sh
 2
 3
     # Get the dir path of the dir where this script is located
     DIRNAME=$( cd "$(dirname "${BASH SOURCE[0]}")" ; pwd -P )
 4
 5
    # Get the repo dir path
 6
     REPO DIR="$(dirname "$DIRNAME")"
 7
 8
     # Cd to the dir where this script is located
9
10
     cd $DIRNAME
11
12
     ### get the name of the repository
     REPO NAME=$(basename -s .qit `qit confiq --qet remote.origin.url`)
13
14
15
     ## get the name of the checked out branch
     BRANCH NAME=$(git rev-parse --abbrev-ref HEAD)
16
```

And then, not so important, we don't run the script if we are in the ancker branch. We could but it seems meaningsless since the developer is supposed to run it in a branch that contains the code for one of the microservices:

```
if [[ "$BRANCH NAMS" == "docker" ]
19
     then
20
       echo ""
       echo "I WOULD LOVE TO STATT YOUR DOCKER COMPOSE STACK BUT:"
21
       echo "Do not start fro the docker branch!"
       echo "Instead start from the branch you want to bind mount!"
       echo ""
       echo "Run ./cr/ate-docker-tools.sh on the docker branch"
       echo "to cr ate start and stop scripts available everywhere!"
27
       echo ""
28
       exit
29
```







Create a named volume

Remove the volume if it exists since earlier runs, then create the named volume:

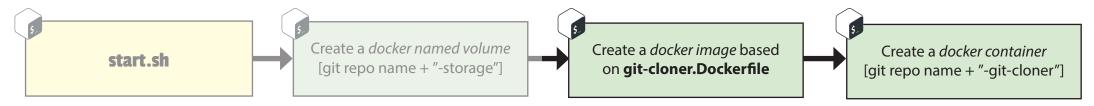
```
31    echo ""
32    echo "CREATING DOCKER VOLUME $REPO_NAME-storage"
33    ### remove volume if it exists already
34    docker volume rm -f $REPO_NAME-storage
35
36    ### create volume
37    docker volume create $REPO_NAME-storage
38
```



https://docs.docker.com/storage/volumes

https://www.baeldung.com/ops/docker-volumes





Create an image — "git-cloner" — and run as a container

Create an image, based on an official Node.js Buster (Debian) image that will run our the JS-part of our automation, git-cloner.js. Start it as a container, connect it to our named volume and send som important environment variables to it.

```
# build image from Dockerfile
39
40
    docker build -f git-cloner.Dockerfile -t $REPO NAME-git-cloner.
41
    ### run image as container
42
43
     docker run \
    --name $REPO_NAME-git-cloner \
44
    -v $REPO NAME-storage:/storage \
45
     -e GIT_REPO_URL=$(git remote get-url origin) \
46
     -e GIT USERNAME=$(git config --global user.name) \
47
48
     -e GIT EMAIL=$(git config --global user.email) \
     -e GIT REPO NAME=$REPO NAME \
49
     -e GIT_BRANCH_NAME=$BRANCH_NAME \
50
     -e HOST REPO PATH=$REPO DIR \
51
     $REPO NAME-git-cloner
52
53
```

The **git-cloner.Dockerfile**:

```
# start with a debian node container
     FROM node: 16.15-buster
 3
     # Install git
     RUN apt update
     RUN apt install git
 7
     # Set a work dir (working directory)
     WORKDIR /app
10
     # Copy the contents of copy-to-docker-container folder
11
     # to the work dir
13
     COPY ./copy-to-docker-container .
14
15
     # Run the git-cloner.js file from copy-to-docker-container
16
     CMD node git-cloner.js
```





Thomas, todo:

- Finish writing documentation!

- Create an example application consisting of several containers (microservices)...



Sketch for example application:

