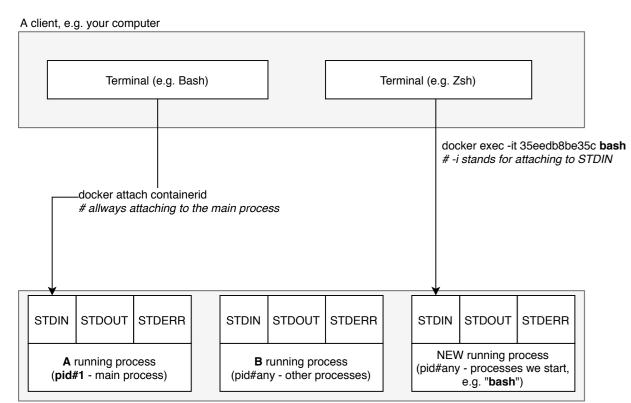
## # Day #3: Docker > Travis CI > AWS

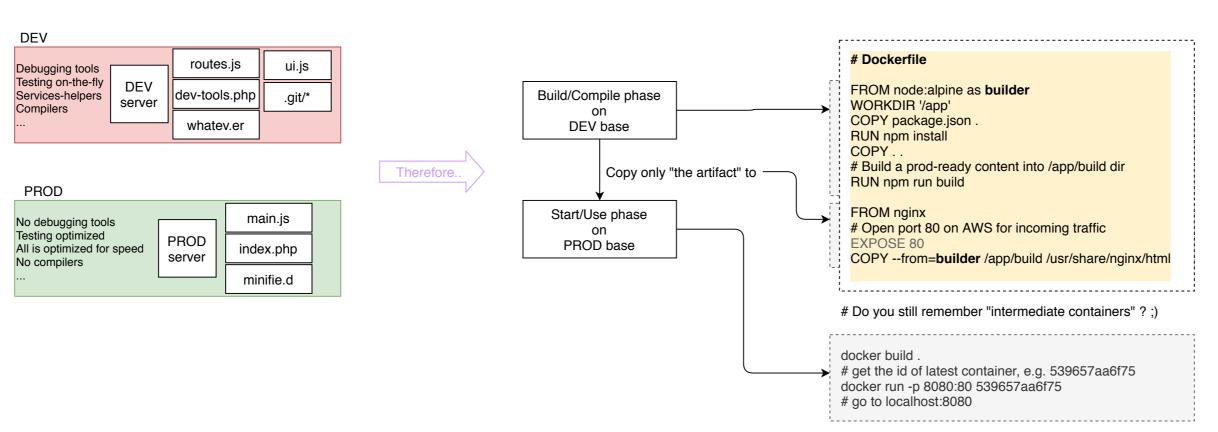
Q: How do I deploy Docker containers with Kubernetes via Travis CI to AWS or other type of hosting platform? A: Deploying basic app first, including gitflow (features, pull requests) taken into account. Docker > Travis CI > AWS.

## Sneaking in process tree of a container



A docker container, e.g. 35eedb8be35c

## DEV / PROD just differs...



AWS Beanstalk Environment - for auto scaling...

Request to our app

Load

Balancer

VM Running Docker

Our Docker Container

Our App

VM Running Docker

Our Docker Container

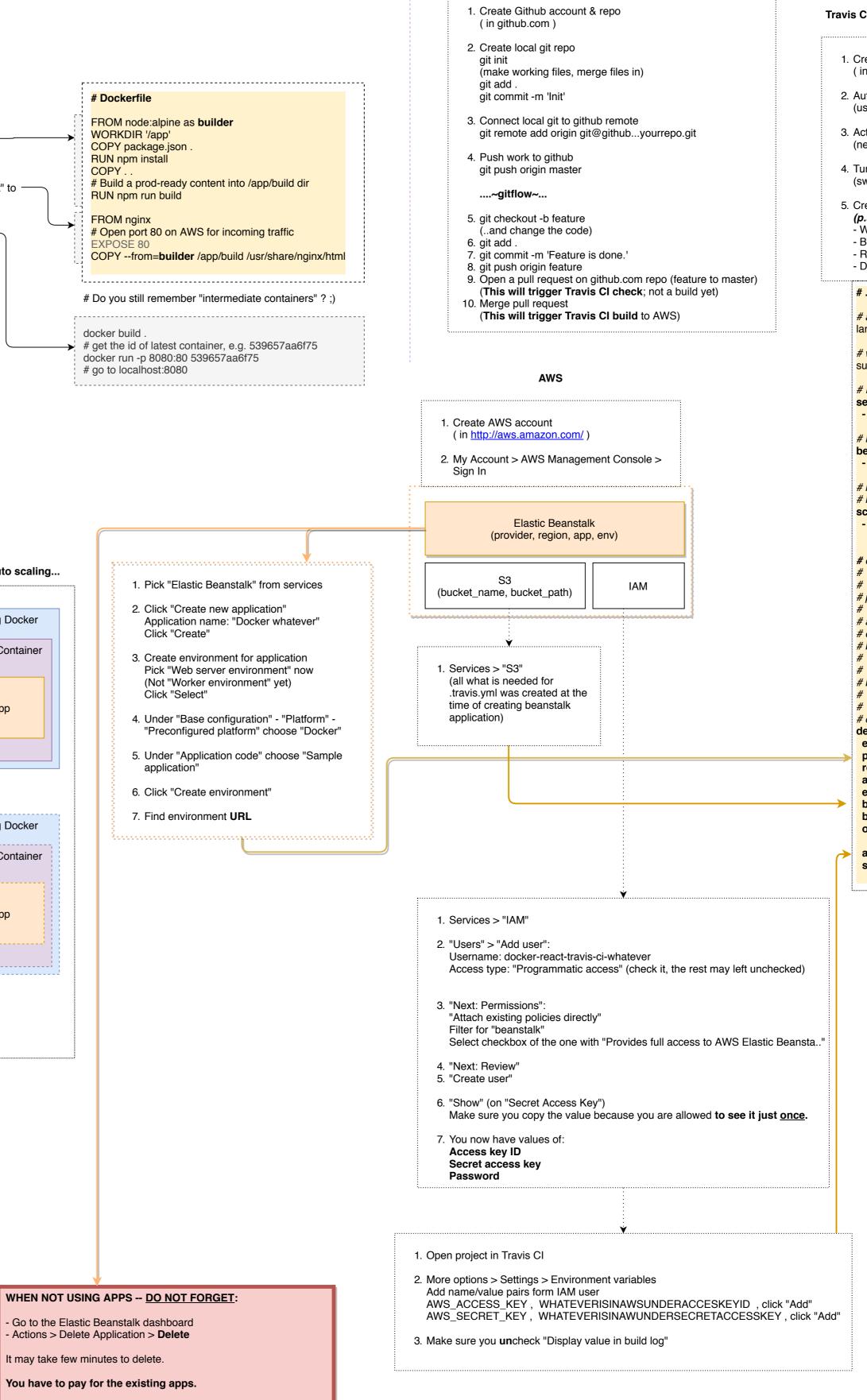
Our App

application"

- Go to the Elastic Beanstalk dashboard - Actions > Delete Application > **Delete** 

You have to pay for the existing apps.

It may take few minutes to delete.



Github

## Travis CI Create Travis CI account (in travis-ci.org) 2. Authorize Travis CI to work with Github (user data, grant permissions to list repositories, etc.) 3. Activate your GitHub repositories, if not listed any (need to be an admin for a repository to setup on Travis CI) 4. Turn on the repository you want (switch repo on in the list of repositories) 5. Create and push .travis.yml file in git repo telling: (p.s. build will start immediately after git push because of step #3 and #4) - We need a copy of docker running - Build image using Dockerfile.dev - Run our test suite Deploy to AWS # .travis.yml # avoiding "rakefile not found" error language: generic # we need super user for furter actions sudo: reuired

# Install docker to Travis CI space

services: docker

# Build a locally tagged docker image

- docker build -t myvendorname/my-repo-name -f Dockerfile.dev .

# https://facebook.github.io/create-react-app/docs/running-tests#linux-macos-bash # https://docs.docker.com/engine/reference/run/#env-environment-variables

- docker run -e CI=true myvendorname/my-repo-name npm run test -- --coverage

# edge: true

# forcing Travis to use the v2 (experimental) version of the dpl script # which does not have the bug "Missing bucket\_name" # provider: deploy to one of many preconfigured providers - elasticbeanstalk

# other options: github pages, github releases, google app engine, etc.

# app: applicationNameFromAwsBeanstalk # env: environmentCreatedInApplication

# bucket\_name: a-value-of-aws-s3-bucket-name-where-travisci-sends-zip-to # this bucket was automatically generated after creating beanstalk app

# so look in S3 service bucket list

# bucket\_path: a path inside the bucket of the app # if it's the first env in app then it most likely will be same as app name

# otherwise - something else, browse S3 bucket to find it, or create extra dir

# on: we deploy on git push to this branch of github repo

edge: true provider: elasticbeanstalk

region: "eu-central-1"

app: "docker-deploy-test" env: "Docker-env"

bucket\_name: "elasticbeanstalk-eu-central-1-30647667547"

bucket\_path: "docker-deploy-test"

branch: master

access\_key\_id: \$AWS\_ACCESS\_KEY

secret\_access\_key: \$AWS\_SECRET\_KEY