Easy Docker File

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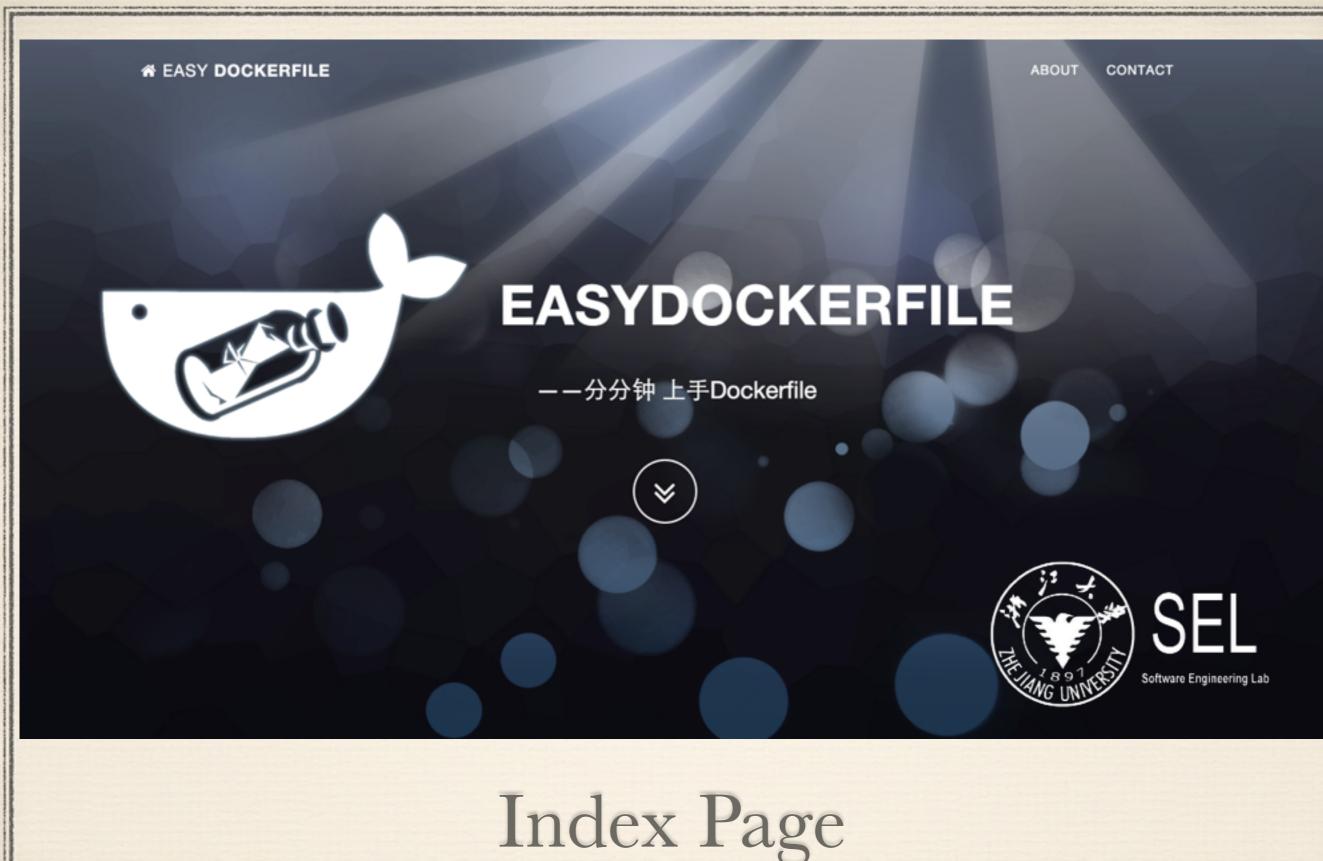
by ZJU-Fighter (zju sel lab)

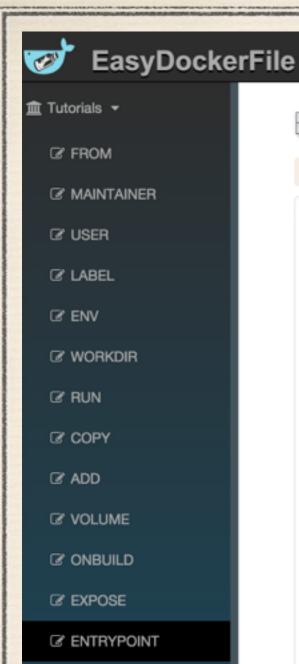
Idea

- * The basic developing process based image:
- * Sourcecode <--> binary <--> image <--> cloud
- * Which link could we cut in during 24 hours based on Docker and Golang?

Why focus on Docker file

- * Dockerfile is necessary to build image especially for the image release
- * Developer more familiar with the bash command way than the docker file way
- * How to make developer write docker file easily?
 - an online web site for user which provide detailed tutorial for user to learn the docker file instruction step by step
 - * abundant examples and templates for user to learn the docker file quickly
 - * a customised online editor which have a good syntax highlighting and grammar checking for users to write docker file smoothly
 - * Interaction with the docker container in web terminal and transform the bash command into the Dockerfile instructions automatically





CMD

□ Templates ▼

ENTRYPOINT

⚠ Tutorial / FENTRYPOINT « EXPOSE CMD »

ENTRYPOINT

格式:

- CMD ["executable", "param1", "param2"]
- CMD ["param1","param2"]

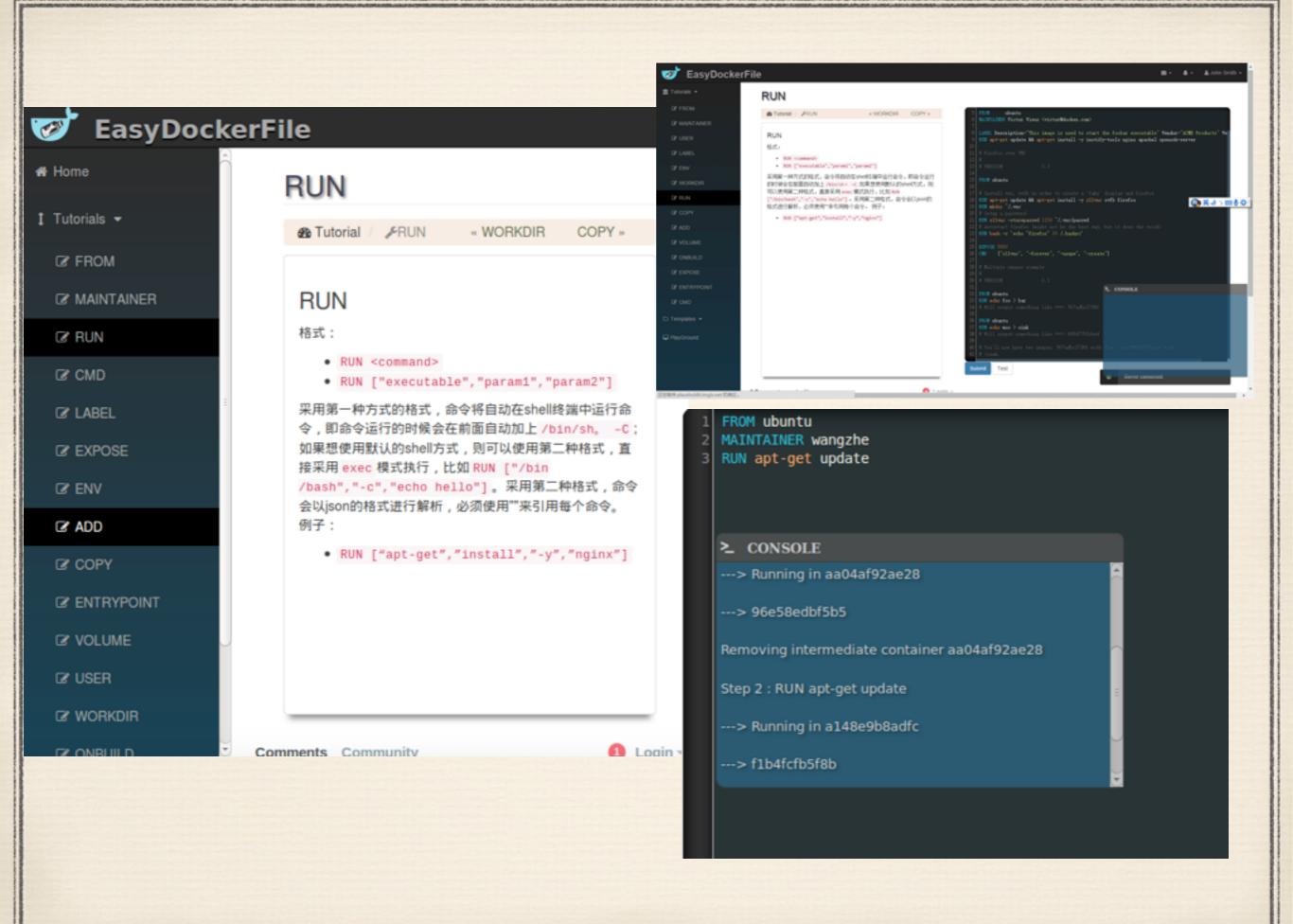
ENTRYPOINT在镜像构建中,通常是扮演一个初始化的工 作,用户可以把对于系统的一些必须要做的初始化工作放在 脚本中,通过ENTRYPOINT来执行。而通过ENTRYPOINT 来生成的指令可能不会被轻易的重写, 从基本功能上来看, 用户可以把不需要变动的信息写在ENTRYPOINT中,把需要

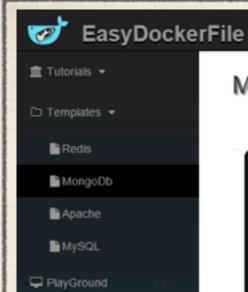
```
FROM ubuntu:14.10
ENTRYPOINT ["top", "-b"]
CMD ["-c"]
```

变动的,最后容器执行的时候要指定的信息写在CMD中。 例子:

```
####ENTRYPOINT
   FROM ubuntu:14.04
   MAINTAINER dockerlover@zju.edu.cn
   USER root
   LABEL version="1.0"
   ENV CATALINA HOME
   ENV CATALINA BASE /var/lib/tomcat7
   ENV CATALINA PID /var/run/tomcat7.pid
   ENV CATALINA SH /usr/share/tomcat7/bin/catalina.sh
   ENV CATALINA TMPDIR /tmp/tomcat7-tomcat7-tmp
   WORKDIR /usr/local/tomcat
   RUN apt-get update
   RUN apt-get install tomcat7 default-jdk
   ADD ./start.sh
   VOLUMN ["/var/lib/tomcat7/webapps/"]
   EXPOSE 8080
                                   ≥ CONSOLE
                                    ENV must have two arguments
Submit
         Test
```

Grammar check and Syntax highlight



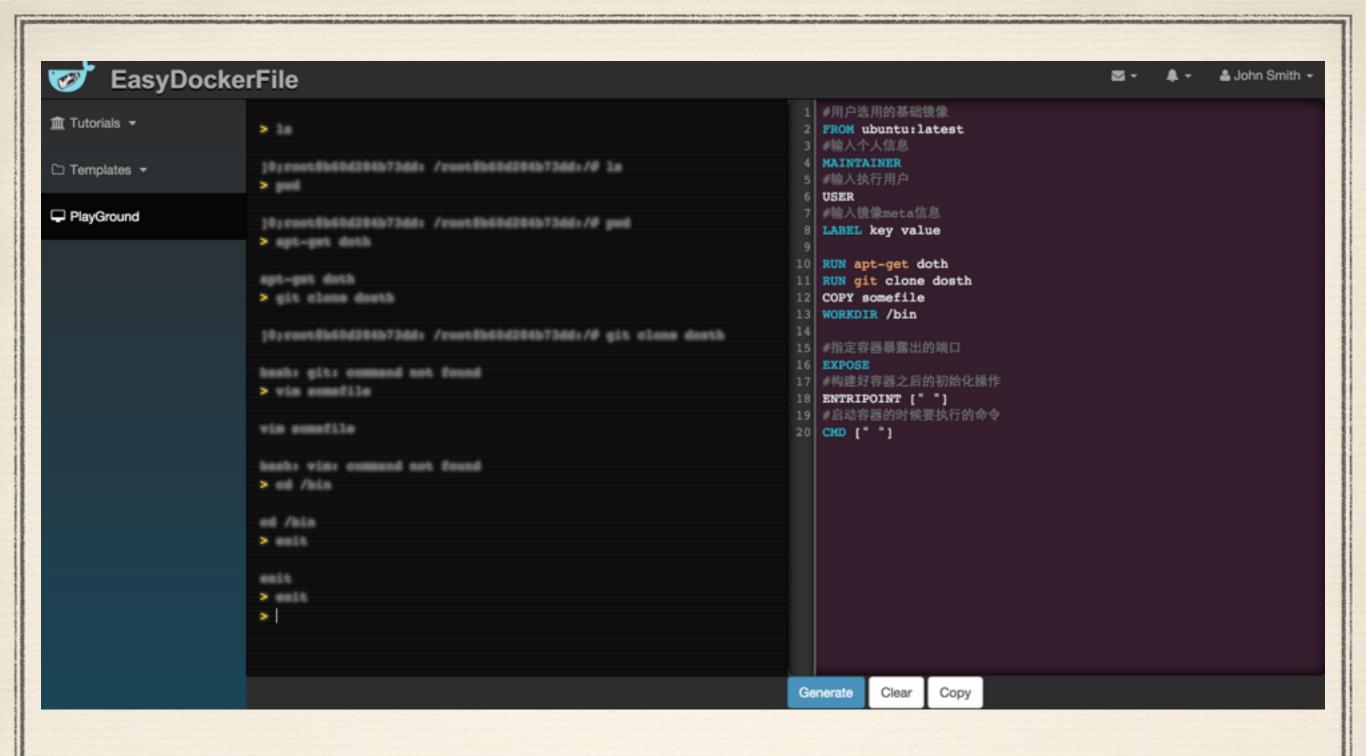


MONGODB

```
FROM komljen/ubuntu
MAINTAINER Alen Komljen <alen.komljen@live.com>
ENV MONGO_VERSION 2.6.6
 apt-key adv -keyserver hkp://keyserver.ubuntu.com:80 -recv 7FOCEB10 && \
 echo "deb http://downloads-distro.mongodb.org/repo/ubuntu-upstart dist 10gen" \
      > /etc/apt/sources.list.d/mongodb.list && \
  apt-get update && \
  apt-get -y install \
         mongodb-org=$[MONGO_VERSION] && \
 rm -rf /var/lib/apt/lists/*
WOLUME ["/data/db"]
RUN rm /usr/sbin/policy-rc.d
CMD ["/usr/bin/mongod"]
```

正在等待 placeholdit.imgix.net 的响应...

File Templates



Bash commands—>Dockerfile

Demo show

QGA

Thank you

-ZJU-Fighter