**Docker常识**

**安装Docker**（hub的机器linux版本旧，要用版本6）：

新建docker repo:

/etc/yum.repos.d/docker.repo

[dockerrepo]

name=Docker Repository

baseurl=https://yum.dockerproject.org/repo/main/centos/**6**/

enabled=1

gpgcheck=1

gpgkey=<https://yum.dockerproject.org/gpg>

Hub机器设置proxy：

http\_proxy=hubproxy.sh.cn.ao.ericsson.se:8080

yum install docker-engine

**设置Docker本地仓库**（hub的机器连接不上repository）：

<https://wiki.lmera.ericsson.se/wiki/ARM/Types/Docker_registry>

1）登陆

<https://cnshdocker.sh.cn.ao.ericsson.se/artifactory/webapp/#/home>

2）Release team设置权限

3）docker login

[ecnshxenlx0176]/home\_local/drutt#docker login cnshdocker.sh.cn.ao.ericsson.se

Username: eyunjch

Password:

**Docker容器命令：**

**启动容器**

docker run -e ABAC\_PAP\_RE\_INSTALL\_DATABASE=true -e ABAC\_PAP\_JDBC\_DRIVERNAME=org.postgresql.Driver -e 'ABAC\_PAP\_JDBC\_URL=jdbc:postgresql:\/\/10.175.172.161:1522\/abac?autoReconnection=true' -e ABAC\_PAP\_JDBC\_USERNAME=postgres -e ABAC\_PAP\_JDBC\_PASSWORD=pg -e 'ABAC\_ALARM\_JDBC\_URL=jdbc:postgresql:\/\/10.175.172.161:1522\/abac?autoReconnection=true' -e ABAC\_ALARM\_JDBC\_USERNAME=postgres -e ABAC\_ALARM\_JDBC\_PASSWORD=pg **-it** **-d** **-p :4002:8080** -p :4001:8000 **--name** abac-pap cnshdocker.sh.cn.ao.ericsson.se/cgc\_sep/abac-pap

# -i 采用交互模式运行容器 -t tty分配伪终端标志符 不带-it则无法通过attach命令进入容器交互

# -d 容器在后台运行 -p 端口映射 -e 参数 --name 容器名

**进入容器**

[hudson@ddi-slave ~]$ docker attach abac-pap

root@8565f69a3d1a:/opt/abac/pap#

容器中的进程执行完毕后，容器就退出了，但是容器并没有消失。以exist的状态存在。(run的时候--rm就会运行完删除容器）

**察看docker中的容器们**：

[hudson@ddi-slave ~]$docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

db9f5ae0c347 7099cf37fc41 "/bin/sh -c 'mkdir -p" 5 seconds ago Exited (0) 3 seconds ago infallible\_joliot

8565f69a3d1a cnshdocker.sh.cn.ao.ericsson.se/cgc\_sep/abac-pap "/bin/sh -c '/start.s" 29 minutes ago Up 29 minutes 8090/tcp, 0.0.0.0:4001->8000/tcp, 0.0.0.0:4002->8080/tcp abac-pap

ccc26493fca6 b44a5aadca1a "/bin/sh -c '#(nop) C" 45 hours ago Created berserk\_bell

-v /host：/container：wr 把容器的文件导出到服务器上。 最后一个是权限

-w 指定容器默认的工作目录，默认是根目录

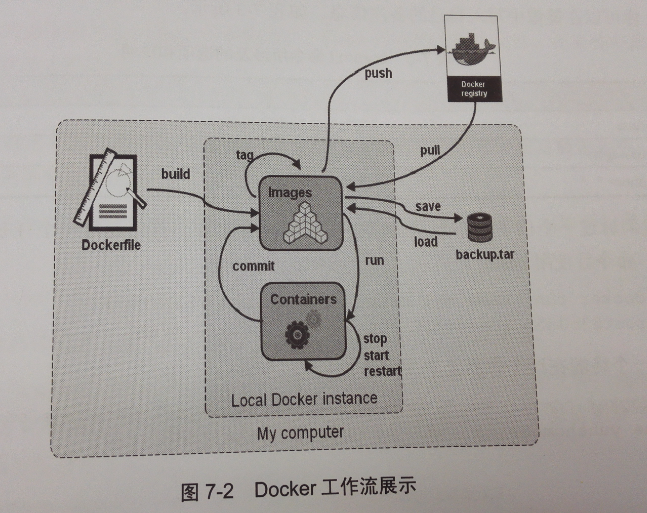
**删除指定的容器：**

docker rm <Container-ID>

start/stop/restart 跟run参数差不多，只有加了-itd的，才能用attach命令登陆

**察看container详细信息**：docker inspect container-name

**Docker 镜像命令**



**察看本机所有镜像**：

docker images

**删除镜像：**

docker rmi <IMAGE-ID>

**搜索repository上的image**:

[hudson@ddi-slave ~]$ docker search pap

NAME DESCRIPTION STARS OFFICIAL AUTOMATED

zuhkov/paperwork Paperwork by twostairs with embedded Maria... 8 [OK]

pitkley/paperless Docker container for https://github.com/da... 4 [OK]

nipap/nipapd nipapd 1 [OK]

**在repository上push/pull image**

docker push/pull cnshdocker.sh.cn.ao.ericsson.se/cgc\_sep/abac-pdp

**测试机和Docker repository网络不通：**

1）从一台导出：

[hudson@ddi-slave sharedspace]$ **docker images|grep pap**

cnshdocker.sh.cn.ao.ericsson.se/cgc\_sep/abac-pap latest 399f934bba55 About an hour ago 818 MB

[hudson@ddi-slave sharedspace]$ **docker save -o pap.tar** 399f934bba55

2）FTP到另外一台导入：

[ecnshxenlx0176]/opt/drutt#**docker load -i pap.tar**

[ecnshxenlx0176]/opt/drutt#**docker images**

REPOSITORY TAG IMAGE ID CREATED VIRTUAL SIZE

<none> <none> c9be582e7040 About an hour ago 818 MB

**与ABAC集成**

参考abac jenkins:

<https://ci-msdp.sh.cn.ao.ericsson.se/sep/view/ABAC/>

1） ABAC集成机器上（10.175.172.88/hudson）导出pap和pdp 再导入到测试机（ecnshxenlx0176:/opt/Docker）

2） 下载simulator（10.175.172.88/hudson）到测试机（ecnshxenlx0176:/opt/Docker）

/home/hudson/workspace/pip-simulator/abac/application/simulator/target/simulator-1.0-SNAPSHOT.war

/home/hudson/workspace/pip-simulator/abac/application/simulator/target/dependency/jetty-runner.jar

3) 启动pap docker

docker run -e ABAC\_PAP\_RE\_INSTALL\_DATABASE=true -e ABAC\_PAP\_JDBC\_DRIVERNAME=org.postgresql.Driver -e 'ABAC\_PAP\_JDBC\_URL=jdbc:postgresql:\/\/10.175.172.166:1522\/eyunjch\_dispatcher2?autoReconnection=true' -e ABAC\_PAP\_JDBC\_USERNAME=eyunjch\_dispatcher2 -e ABAC\_PAP\_JDBC\_PASSWORD=eyunjch\_dispatcher2 -e 'ABAC\_ALARM\_JDBC\_URL=jdbc:postgresql:\/\/10.175.172.166:1522\/eyunjch\_dispatcher2?autoReconnection=true' -e ABAC\_ALARM\_JDBC\_USERNAME=eyunjch\_dispatcher2 -e ABAC\_ALARM\_JDBC\_PASSWORD=eyunjch\_dispatcher2 -it -d -p :4002:8080 -p :4001:8000 --name abac-pap 990c0c65f9ac

4) 启动simulator

nohup java -jar jetty-runner.jar --port 18080 simulator-1.0-SNAPSHOT.war >nohup.log 2>&1 &

5) 启动pdp docker

docker run -e ESA\_ALARM\_DB=POSTGRESQL -e ESA\_ALARM\_HIBERNATE\_DIALECT=org.hibernate.dialect.PostgreSQLDialect -e ESA\_ALARM\_DRIVER\_NAME=org.postgresql.Driver -e 'ESA\_ALARM\_DATA\_URL=jdbc:postgresql:\/\/10.175.172.166:1522\/eyunjch\_dispatcher2?autoReconnection=true' -e ESA\_ALARM\_USER=postgres -e ESA\_ALARM\_PWD=pg -e PAP\_HOST=147.128.64.11 -e PAP\_PORT=4002 -e USERPROFILE\_PROVIDER\_HOST=147.128.64.11 -e USERPROFILE\_PROVIDER\_PORT=18080 -e THING\_PROVIDER\_HOST=147.128.64.11 -e THING\_PROVIDER\_PORT=18080 -e RELATIONSHIP\_PROVIDER\_HOST=147.128.64.11 -e RELATIONSHIP\_PROVIDER\_PORT=18080 -it -d -p 38080:8080 -p 38000:8000 --name abac-pdp 912427288f49