

# 单机Docker harbor安装运行配置

## 服务器

服务器名称	公网ip	内网ip	插件	作用
master2	101.91.231.36	172.16.3.136	docker , docker-compose , harbor-offline-installer-v2.1.0	主
baas-139-17	42.123.112.142	172.20.139.17	docker , docker-compose , harbor-offline-installer-v2.1.0	从

## 安装docker

```
[root@baas-139-17 ~]# yum install -y docker-ce

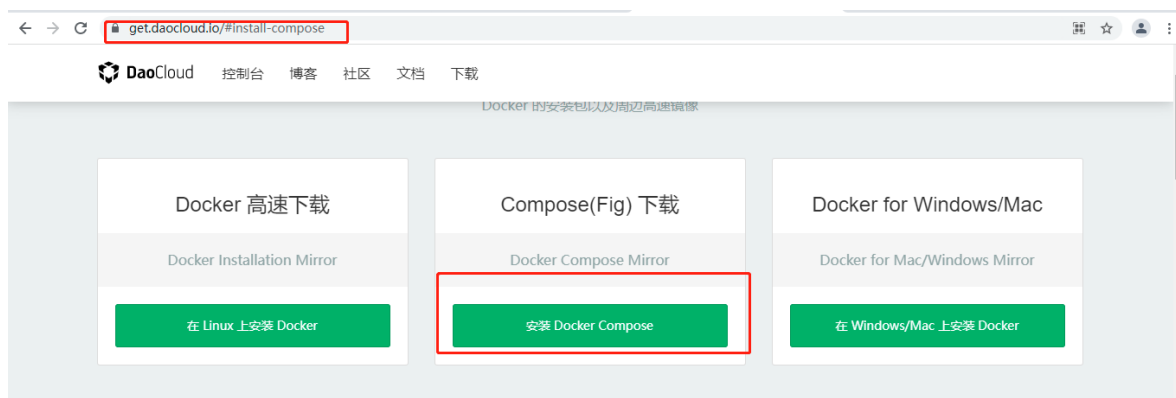
[root@baas-139-17 ~]# systemctl start docker

[root@baas-139-17 ~]# systemctl enable docker

[root@baas-139-17 ~]# docker -v
Docker version 19.03.0, build aeac9490dc
```

## 安装docker-compose

安装官网: <https://get.daocloud.io/#install-compose>



## 安装 Docker Compose

Docker Compose 存放在Git Hub, 不太稳定。  
你也可以通过执行下面的命令, 高速下载Docker Compose。

```
curl -L https://get.daocloud.io/docker/compose/releases/download/v2.0.1/docker-compose-`uname -s`-`uname -m` > /usr/local/bin/docker-compose
chmod +x /usr/local/bin/docker-compose
```

你可以通过修改URL中的版本, 可以自定义您需要的版本。

```
[root@baas-139-17 ~]# curl -L
https://get.daocloud.io/docker/compose/releases/download/v2.0.1/docker-compose-
`uname -s`-`uname -m` > /usr/local/bin/docker-compose

[root@baas-139-17 ~]# chmod +x /usr/local/bin/docker-compose

[root@baas-139-17 ~]# docker-compose -v
docker-compose version 2.0.1, build 4092ae5d
```

## 安装harbor

下载地址: <https://github.com/goharbor/harbor/releases/download/v2.1.0/harbor-offline-installer-v2.1.0.tgz>

```
[root@baas-139-17 ~]# wget
https://github.com/goharbor/harbor/releases/download/v2.1.0/harbor-offline-
installer-v2.1.0.tgz

[root@baas-139-17 ~]# tar xf harbor-offline-installer-v2.1.0.tgz -C /usr/local

[root@baas-139-17 ~]# cd /usr/local/harbor/ && ll
total 545264
-rw-r--r-- 1 root root      3361 Sep 16  2020 common.sh
-rw-r--r-- 1 root root 558317240 Sep 16  2020 harbor.v2.1.0.tar.gz
-rw-r--r-- 1 root root      8136 Sep 16  2020 harbor.yml.tpl
-rwxr-xr-x 1 root root      2523 Sep 16  2020 install.sh
-rw-r--r-- 1 root root     11347 Sep 16  2020 LICENSE
-rwxr-xr-x 1 root root      1881 Sep 16  2020 prepare

[root@baas-139-17 harbor]# cp harbor.yml.tpl harbor.yml

[root@baas-139-17 harbor]# vim harbor.yml
```

```
# Configuration file of Harbor

# The IP address or hostname to access admin UI and registry service.
# DO NOT use localhost or 127.0.0.1, because Harbor needs to be accessed by external clients.
hostname: 172.20.139.17

# http related config
http:
  # port for http, default is 80. If https enabled, this port will redirect to https port
  port: 8082

# https related config
https:
  # https port for harbor, default is 443
  port: 443
  # The path of cert and key files for nginx
  certificate: /your/certificate/path
  private_key: /your/private/key/path

# Uncomment following will enable tls communication between all harbor components
# internal_tls:
#   # set enabled to true means internal tls is enabled
#   enabled: true
#   # put your cert and key files on dir
#   dir: /etc/harbor/tls/internal

# Uncomment external_url if you want to enable external proxy
# And when it enabled the hostname will no longer used
# external_url: https://reg.mydomain.com:8433

# The initial password of Harbor admin
# It only works in first time to install harbor
# Remember Change the admin password from UI after launching Harbor.
harbor_admin_password: Harbor12345
```

本机ip

端口不要冲突

注释https协议

# 启动

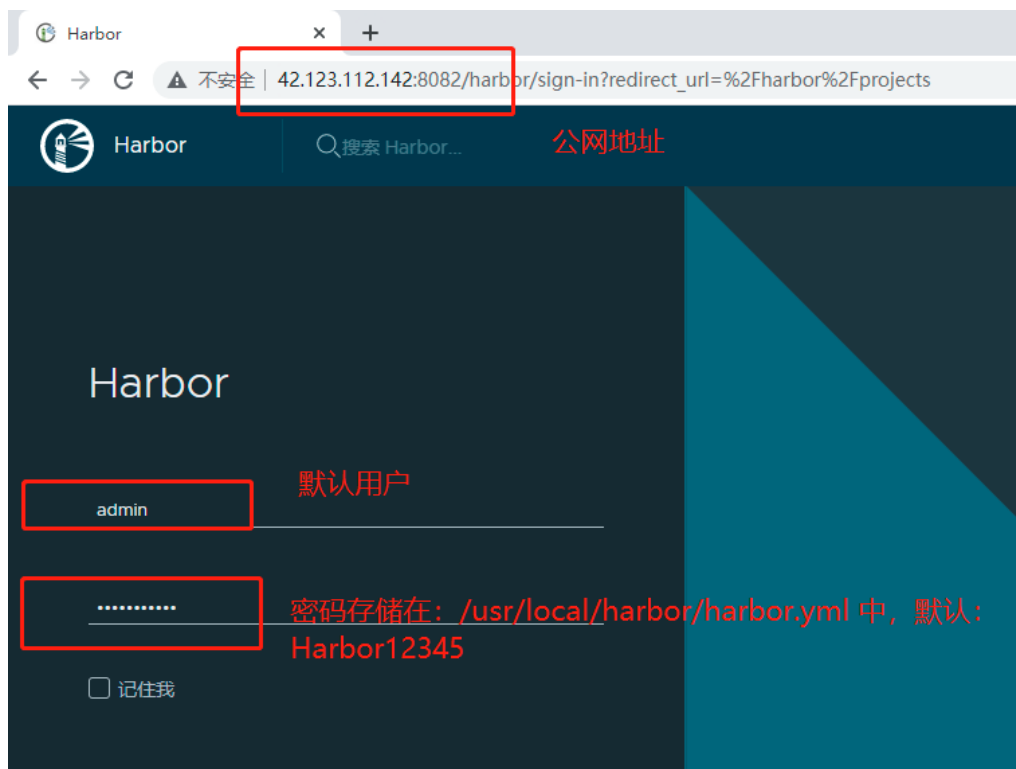
```
[root@baas-139-17 harbor]# ./install.sh --with-chartmuseum
```

## 注释: --with-chartmuseum 参数表示启用Charts存储功能

## 部署harbor所起的容器redis与registry不能和已有的容器名冲突

```
[root@baas-139-17 harbor]# docker ps -a | grep harbor
496eb425c99a    goharbor/harbor-jobservice:v2.1.0    "/harbor/entrypoint..."    2 minutes ago    Up 2 minutes (healthy)    0.0.0.0:8082->8080/tcp    harbor-jobservice
982f17253369    goharbor/nginx-photon:v2.1.0        "nginx -g 'daemon of..."    2 minutes ago    Up 2 minutes (healthy)    harbor-core
2a34e4b335d0    goharbor/harbor-core:v2.1.0        "/harbor/entrypoint..."    2 minutes ago    Up 2 minutes (healthy)    chartmuseum
6ba6a8a34c9    goharbor/chartmuseum-photon:v2.1.0    "/docker-entrypoint..."    2 minutes ago    Up 2 minutes (healthy)    registry
a93a587b454c    goharbor/registry-photon:v2.1.0      "/home/harbor/entryp..."    2 minutes ago    Up 2 minutes (healthy)    registryctl
48fce4647e1d    goharbor/harbor-registryctl:v2.1.0    "/home/harbor/start..."    2 minutes ago    Up 2 minutes (healthy)    harbor-portal
3d7b834ce981    goharbor/harbor-portal:v2.1.0        "nginx -g 'daemon of..."    2 minutes ago    Up 2 minutes (healthy)    redis
eee1e254cf6    goharbor/redis-photon:v2.1.0        "redis-server /etc/r..."    2 minutes ago    Up 2 minutes (healthy)    harbor-db
3e146881a6d1    goharbor/harbor-db:v2.1.0          "/docker-entrypoint..."    2 minutes ago    Up 2 minutes (healthy)    harbor-log
41e1638c6541    goharbor/harbor-log:v2.1.0          "/bin/sh -c 'usr/loc..."    2 minutes ago    Up 2 minutes (healthy)    127.0.0.1:1514->10514/tcp
```

```
[root@baas-139-17 ~]# docker images | grep harbor
goharbor/chartmuseum-photon    v2.1.0    5bad3dce5fd5    13 months ago    172MB
goharbor/redis-photon          v2.1.0    45fa455a8eeb    13 months ago    68.7MB
goharbor/trivy-adapter-photon  v2.1.0    9b443d147b3d    13 months ago    106MB
goharbor/clair-adapter-photon v2.1.0    cee42542dfb2    13 months ago    57.9MB
goharbor/clair-photon         v2.1.0    9741a40b433c    13 months ago    167MB
goharbor/notary-server-photon  v2.1.0    e20ff73edec7    13 months ago    139MB
goharbor/notary-signer-photon  v2.1.0    2b783b793805    13 months ago    136MB
goharbor/harbor-registryctl    v2.1.0    98f466a61ebb    13 months ago    132MB
goharbor/registry-photon       v2.1.0    09c818fabdd3    13 months ago    80.1MB
goharbor/nginx-photon          v2.1.0    470ffa4a837e    13 months ago    40.1MB
goharbor/harbor-log            v2.1.0    402802990707    13 months ago    82.1MB
goharbor/harbor-jobservice      v2.1.0    ffe5bef832b4    13 months ago    165MB
goharbor/harbor-core           v2.1.0    26047bcb9ff5    13 months ago    147MB
goharbor/harbor-portal         v2.1.0    5e97d5e230b9    13 months ago    49.5MB
goharbor/harbor-db             v2.1.0    44c0be92f223    13 months ago    164MB
goharbor/prepare               v2.1.0    58d0e7cee8cf    13 months ago    160MB
```



## 简单操作

### 服务器登录harbo

```
## docker配置文件
[root@baas-139-17 ~]# vim /etc/docker/daemon.json

{
  "bip": "172.18.0.1/16",
  "graph": "/data/docker",
  "insecure-registries": ["172.20.139.17:5000", "172.20.139.17:8082"],
  "log-opts": {
    "max-size": "4m",
    "max-file": "1"
  },
  "registry-mirrors": ["http://373a6594.m.daocloud.io"]
}

[root@baas-139-17 ~]# systemctl restart docker
```

```
[root@baas-139-17 ~]# docker login 172.20.139.17:8082
```

```
[root@baas-139-17 ~]# docker login 172.20.139.17:8082
Username: admin
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[root@baas-139-17 ~]# docker image

Usage:  docker image COMMAND

Manage images
```

账户和密码与web ui界面登录一样

## 推镜像

```
[root@baas-139-17 ~]# docker tag 98455b9624a9 172.20.139.17:8082/baas/mysql
```

## 注释: baas是新建的项目名称, 用来管理规划镜像的

```
[root@baas-139-17 ~]# docker push 172.20.139.17:8082/baas/mysql
```

The push refers to repository [172.20.139.17:8082/baas/mysql]

82582edf9553: Pushed

9209148debed: Pushed

364557e875f1: Pushed

5075b9328698: Pushed

97874ea0e7f9: Pushed

458d25c646d8: Pushed

ec41e34b35a0: Pushed

3437f67a712b: Pushed

0aa7d65147ef: Pushed

f411d8bde01c: Pushed

5dacd731af1b: Pushed

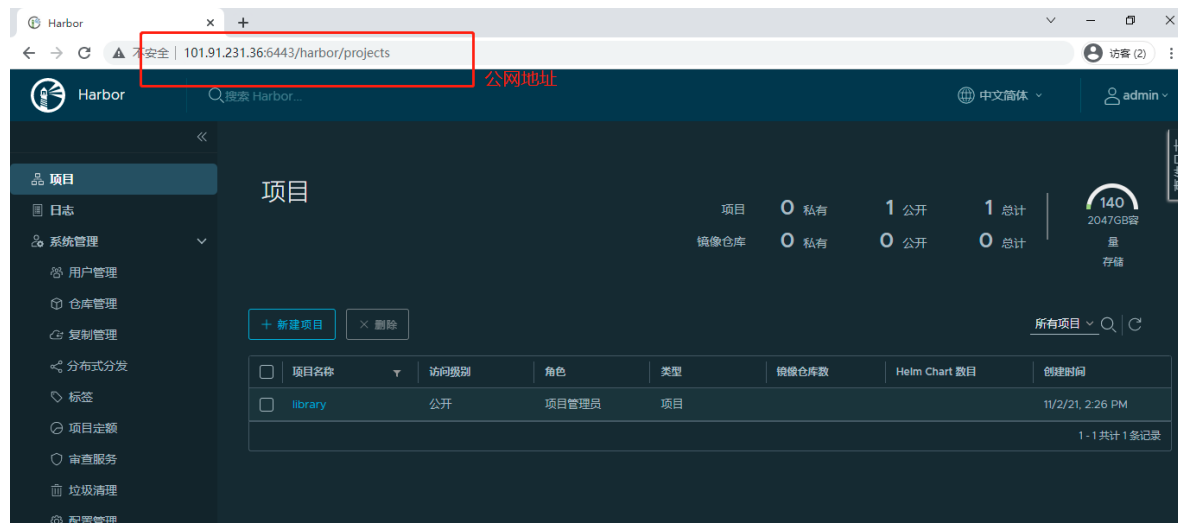
latest: digest:

sha256:e889999df625a5a358a03cc433057cb5a8d3de17fbe11a70964da0eb9c7677b1 size:  
2621

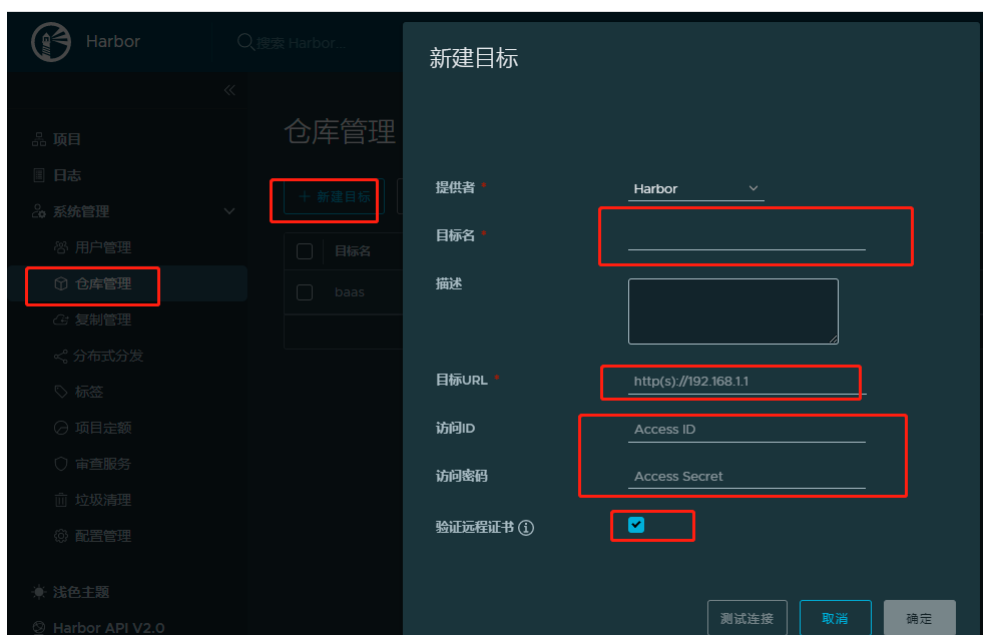
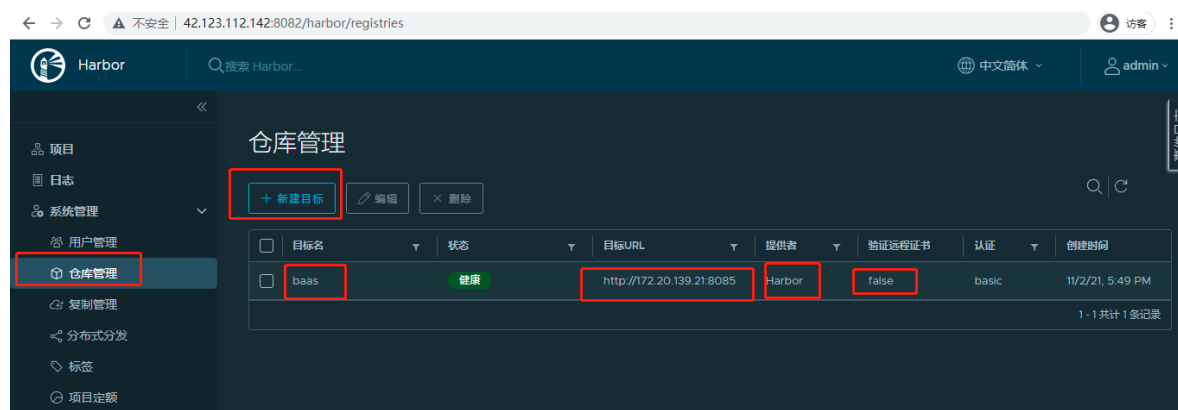


# 主从同步操作(同网段测试，不同网段暂时没有成功)

## 服务器harbor搭建与上面一致，无需改动什么



## 配置主从同步



点击复制管理，设置harbor的主同步策略，主harbor和从harbor设置双向同步规则



注释：两个仓库都互相这样操作

## 测试

```
[root@baas-139-17 ~]# docker tag da86e6ba6ca1 172.20.139.17:8082/baas/pause
```

```
[root@baas-139-17 ~]# docker push 172.20.139.17:8082/baas/pause
```

