

Portainer -- Docker 可视化管理工具的安装配置及使用

1. 下载 Portainer 镜像

查询当前有哪些 Portainer 镜像

docker search portainer

```
Administrator@U4W0D8FJWQ80D3P MINGW64 /d/docker box/Docker Toolbox
```

NAME	DESCRIPTION	STARS	OFFICIAL	AUTOMATED
portainer/portainer	Making Docker management easy. https://porta...	1295		
portainer/agent	An agent used to manage all the resources in...	39		
portainer/templates	App Templates for Portainer http://portainer...	14		
lihaixin/portainer	docker ui	6		[OK]
portainer/golang-builder	Utility to build Golang binaries.	4		[OK]
greenled/portainer-stack-utils	Bash scripts to deploy/undeploy stacks in a ...	3		[OK]
portainerci/portainer	Portainer images automatically created via P...	2		
hassloadadds/portainer		2		
stefanscherer/portainer	Portainer for Windows 1809 and some older In...	2		
dockerframework/portainer	Portainer (Simple Management UI for Docker) ...	1		[OK]
softonic/portainer-endpoint	Allows auto register all the swarm nodes in ...	1		[OK]
portainer/base	Multi-stage build image to create the Portai...	1		[OK]

下载镜像

docker pull docker.io/portainer/portainer

```
Administrator@U4W0D8FJWQ80D3P MINGW64 /d/docker box/Docker Toolbox
$ docker pull docker.io/portainer/portainer
Using default tag: latest
latest: Pulling from portainer/portainer
Digest: sha256:a16919b3e02323e4bd0a8c5023d6fd569525297b9dc9a028d778cb6e13512be5
Status: Image is up to date for portainer/portainer:latest
```

2. 连接 docker（后续启动时需要从这一步开始）

首先需要添加一个数据卷，

docker volume create portainer_data

```
Administrator@U4W0D8FJWQ80D3P MINGW64 /d/docker box/Docker Toolbox
$ docker volume create portainer_data
portainer_data
```

使用 Unix 套接字连接本地 Docker

docker run -d -p 9000:9000 -v /var/run/docker.sock:/var/run/docker.sock -v portainer_data:/data
portainer/portainer

```
Administrator@U4W0D8FJWQ80D3P MINGW64 /d/docker box/Docker Toolbox
$ docker run -d -p 9000:9000 -v /var/run/docker.sock:/var/run/docker.sock -v portainer_data:/data portainer/portainer
0d9a467d50fd72955038f61b3e230ab00ef2eb874ee35ea52f428a958d2bd9ea
D:\docker box\Docker Toolbox\docker.exe: Error response from daemon: driver failed programming external connectivity on e
b2ab3076d950cf14212faa): Bind for 0.0.0.0:9000 failed: port is already allocated.
```

远程连接 docker 需要关闭防火墙，不建议这种方法

修改将要被远程连接的客户机的docker.service 文件开通docker的远程管理:

```
vim /lib/systemd/system/docker.service

ExecStart=/usr/bin/dockerd -H unix:///var/run/docker.sock -H tcp://0.0.0.0:2375
```

重启客户机docker

```
systemctl daemon-reload
systemctl restart docker
```

关闭客户机防火墙

 查看防火墙状态: `systemctl status firewalld.service` #绿的running表示防火墙开启

执行关闭命令: `systemctl stop firewalld.service`

再次执行查看防火墙命令: `systemctl status firewalld.service`

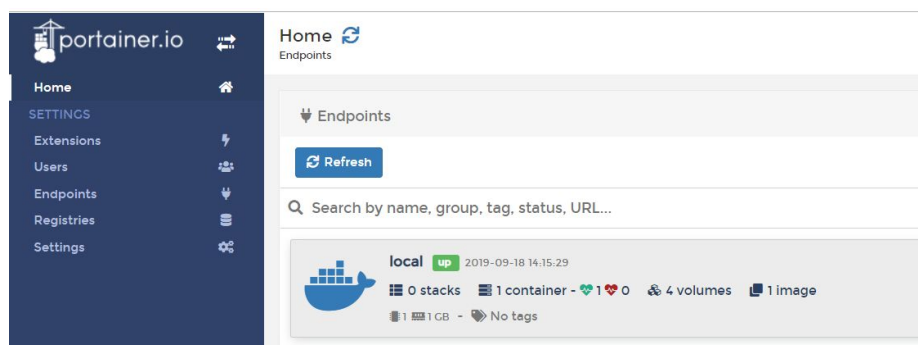
执行开机禁用防火墙自启命令 : `systemctl disable firewalld.service`

#登录 portainer

浏览器输入 `http://本机 IP:9000/`, 第一次登录需要进行注册



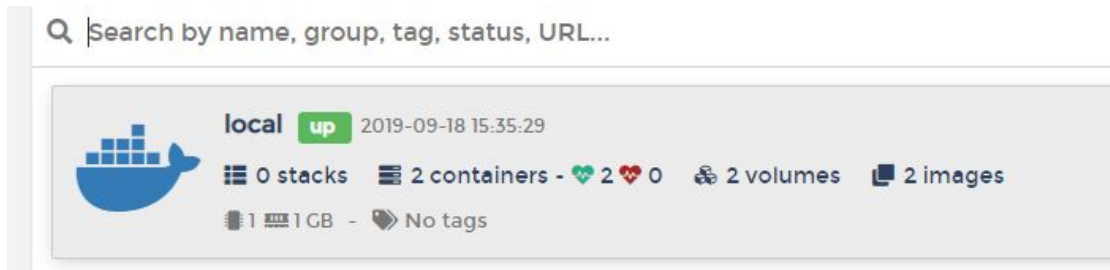
#登陆以后的主界面



3.portainer 的日常使用

#docker hub 上获取 docker 镜像

先进入本地容器中

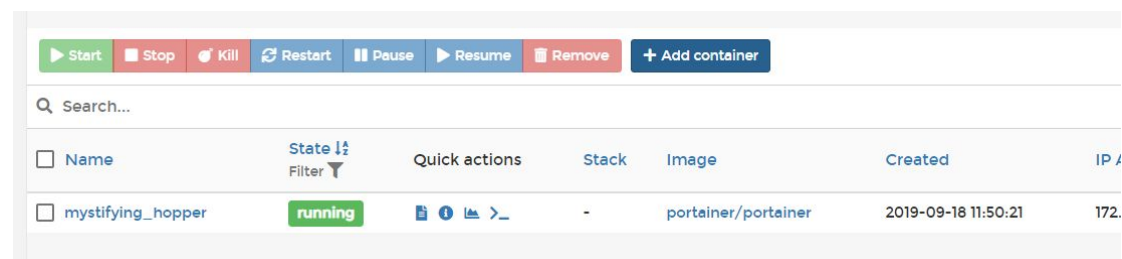


点击左侧 Image ，输入镜像名，拉取镜像

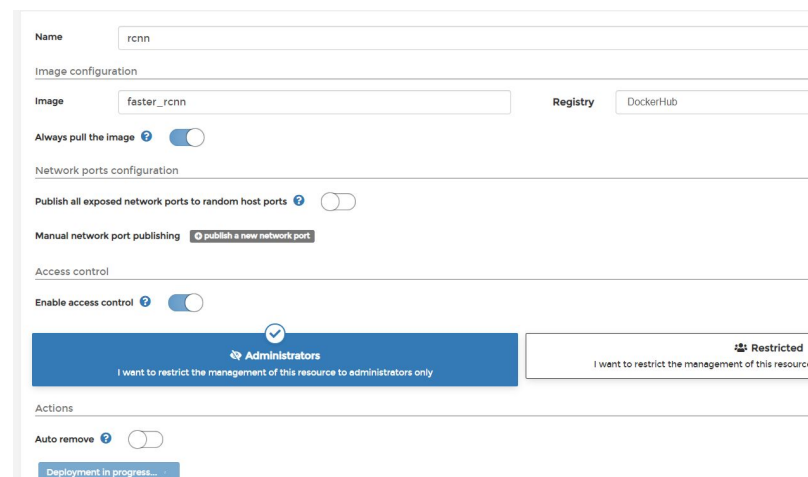


#创建容器

点击左侧 container，进入界面后点击 add container



输入想要获取的 docker 名称，进行部署



#本地容器的使用

点击 **attach** 对本地容器进行连接，可使用命令行进行操作

▶ Start

■ Stop

☒ Kill

↺ Restart

⏸ Pause

▶ Resume

🗑 Remove

🔄 Recreate

📄 Duplicate/Edit

☰ Container status

ID

1b390341b0264ae138562d9a142ba4851c196b471a98525ce25496541ee68e19

Name

mystifying_hopper

IP address

172.17.0.2

Status

♥ Running for 5 hours

Created

2019-09-18 11:50:21

Start time

2019-09-18 11:50:23

📄 Logs

🔍 Inspect

📊 Stats

➤ Console

🔌 Attach

#对正在运行的容器进行监控

🔍 About statistics

This view displays real-time statistics about the container **mystifying_hopper** as well as a list of the running processes inside this container.

Refresh rate

5s

📊 Memory usage

15 MB

10 MB

5 MB

0.0B

Memory

Cache

15:46:31

15:46:32

15:46:32

15:47:32

15:48:12

15:48:53

15:49:23

15:49:53

15:50:53

15:51:34

15:52:28

📊 CPU usage

0.0%

0.0%

0.0%

0.0%

CPU

15:46:31

15:46:32

15:46:32

15:47:32

15:48:12

15:48:53

15:49:23

15:49:53

15:50:53

15:51:34

15:52:28

📊 Network usage (aggregate)

15 MB

10 MB

5 MB

0.0B

RX on eth0

TX on eth0

15:46:31

15:46:32

15:46:32

15:47:32

15:48:12

15:48:53

15:49:23

15:49:53

15:50:53

15:51:34

15:52:28

☰ Processes

Q Search...

UID	PID	PPID	C	STIME	TTY	TIME	CMD
root	2922	2901	0	03:50	?	00:00:04	/portainer