

Docker下安装MySQL和Nginx

配置极速器

```
File Edit View Search Terminal Help
{
  "registry-mirrors": ["https://aeckruos.mirror.aliyuncs.com"],
  "insecure-registries": ["192.168.6.129:5000"]
}
```

mysql安装:

下载MySQL5.7镜像:

```
[wuyuan@localhost yum.repos.d]$ sudo docker pull mysql:5.7
5.7: Pulling from library/mysql
afb6ec6fdclc: Pull complete
0bdc5971ba40: Pull complete
97ae94a2c729: Pull complete
f777521d340e: Pull complete
1393ff7fc871: Pull complete
a499b89994d9: Pull complete
7ebe8eefbafe: Pull complete
4eec965ae405: Pull complete
a531a782d709: Pull complete
270aeddb45e3: Pull complete
b25569b61008: Pull complete
Digest: sha256:d16d9ef7a4ecb29efcd1ba46d5a82bda3c28bd18c0f1e3b86ba54816211e1ac4
Status: Downloaded newer image for mysql:5.7
docker.io/library/mysql:5.7
[wuyuan@localhost yum.repos.d]$
```

查看下载的镜像:

```
[wuyuan@localhost yum.repos.d]$ sudo docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
mysql                5.7                a4fd462add         9 days ago         448MB
[wuyuan@localhost yum.repos.d]$
```

使用docker命令启动:

```
[wuyuan@localhost yum.repos.d]$ sudo docker run -p 3306:3306 --name mys
> -v /mydata/mysql/log:/var/log/mysql \
> -v /mydata/mysql/data:/var/lib/mysql \
> -v /mydata/mysql/conf:/etc/mysql \
> -e MYSQL_ROOT_PASSWORD=root \
> -d mysql:5.7
[sudo] password for wuyuan:
f197fb6afbb15fb7581d41e9150deca35dcd967f3d5e1ad2aa09b9b0845ac8ce
```

查看容器运行结果:

```
[wuyuan@localhost yum.repos.d]$ sudo docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             S
TATUS              PORTS              NAMES
f197fb6afbb1       mysql:5.7          "docker-entrypoint.s..." 18 minutes ago     U
p 18 minutes      0.0.0.0:3306->3306/tcp, 33060/tcp  mysql
[wuyuan@localhost yum.repos.d]$
```

进入docker容器并且进入mysql:

```
[wuyuan@localhost yum.repos.d]$ sudo docker exec -it mysql /bin/bash
root@f197fb6afbb1:/# mysql -uroot -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 6
Server version: 5.7.30 MySQL Community Server (GPL)

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owners.

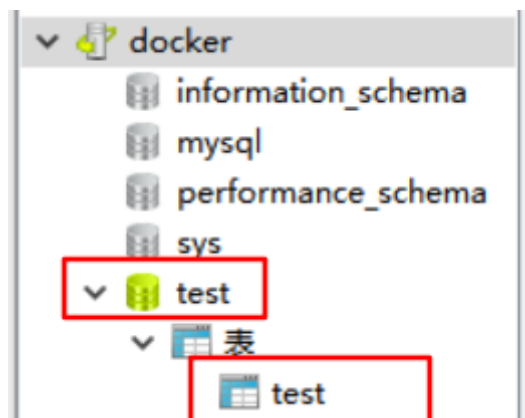
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

在windows本地连接容器，并且创建数据库:

docker - 连接信息

常规	
连接名:	docker
主机名或 IP 地址:	192.168.203.141
端口:	3306
用户名:	root
设置保存路径:	C:\Users\wuyuan\Documents\Navicat\MySQL\serve
编码:	65001 (UTF-8)
状态:	已连接
服务器版本:	5.7.30
通讯协定:	10
信息:	192.168.203.141 via TCP/IP
SSH 主机名或 IP 地址:	N/A
HTTP 通道地址:	N/A
复制到剪贴板	
关闭	



如果需要更改mysql版本:

```
docker stop --容器id  
docker images --选择已下载的版本镜像, 使用docker命令启动即可
```

Nginx安装

下载

```
[wuyuan@localhost ~]$ sudo docker images  
[sudo] password for wuyuan:  
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE  
mysql                5.7                a4fd462add         9 days ago         448MB  
nginx                1.10               0346349a1a64       3 years ago        182MB
```

从容器中拷贝nginx配置

```
[wuyuan@localhost ~]$ sudo docker run -p 80:80 --name nginx \  
> -v /mydata/nginx/html:/usr/share/nginx/html \  
> -v /mydata/nginx/logs:/var/log/nginx \  
> -d nginx:1.10  
[sudo] password for wuyuan:  
59d8a0d8bb3fdfeae5783265791e5565523b4e80832ab15421c68414ad4cf233  
[wuyuan@localhost ~]$
```

将容器内的配置文件拷贝到指定目录并修改名称:

```
[wuyuan@localhost ~]$ sudo docker container cp nginx:/etc/nginx /mydata/nginx/  
[sudo] password for wuyuan:  
[wuyuan@localhost ~]$ cd /mydata/nginx  
[wuyuan@localhost nginx]$ mv nginx conf  
mv: cannot move 'nginx' to 'conf': Permission denied  
[wuyuan@localhost nginx]$ ll  
total 0  
drwxr-xr-x. 2 root root  6 May 31 14:49 html  
drwxr-xr-x. 2 root root 41 May 31 14:49 logs  
drwxr-xr-x. 3 root root 177 Mar 28  2017 nginx  
[wuyuan@localhost nginx]$ sudo mv nginx conf  
[wuyuan@localhost nginx]$
```

终止并删除容器:

```
[wuyuan@localhost nginx]$ sudo docker stop nginx  
nginx  
[wuyuan@localhost nginx]$
```

```
[wuyuan@localhost nginx]$ sudo docker rm nginx  
nginx  
[wuyuan@localhost nginx]$
```

使用docker命令启动

```
[wuyuan@localhost nginx]$ sudo docker run -p 80:80 --name nginx \
> -v /mydata/nginx/html:/usr/share/nginx/html \
> -v /mydata/nginx/logs:/var/log/nginx \
> -v /mydata/nginx/conf:/etc/nginx \
> -d nginx:1.10
4117d2dbff14518ac69e2c5c3e0fce8ac82a21a3a910be3902ca4d0c79adf882
[wuyuan@localhost nginx]$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
4117d2dbff14	nginx:1.10	"nginx -g 'daemon of..."	27 seconds ago	Up 26 seconds
0.0.0.0:80->80/tcp,		443/tcp nginx		