# 云计算实验二报告

## 作业1:

```
[qiushisun@10-23-230-239 root]$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
0e03bdcc26d7: Pull complete
Digest: sha256:4cf9c47f86df71d48364001ede3a4fcd85ae80ce02ebad74156906caff5378bc
Status: Downloaded newer image for hello-world:latest
Hello from Docker!
This message shows that your installation appears to be working correctly.
```

```
[qiushisun@10-23-230-239 root]$ docker pull busybox
Using default tag: latest
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post http://%2Fvar%2Frun%2Fdocker.sock/v1.40/images/creat
e?from[mage=busybox&tag=latest: dial unix /var/run/docker.sock: connect: permission denied
[qiushisung10-23-230-239 root]$ docker pull busybox
Using default tag: latest
latest: Pulling from library/busybox
df8698476c5: Pull complete
Digest: sha256:d366a4665ab44f0648d7a000ae3fae139d55e32f9712c67accd604bb55df9d05a
Status: Downloaded newer image for busybox:latest
docker.io/library/busybox:latest
[qiushisung10-23-230-239 root]$ docker images
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get http://%2Fvar%2Frun%2Fdocker.sock/v1.40/images/json:
dial unix /var/run/docker.sock: connect: permission denied
[qiushisung10-23-230-239 root]$ sudo docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

busybox latest 68588091669 4 weeks ago 1.23MB
hello-world latest bf756fblae65 9 months ago 13.3kB
[qiushisung10-23-230-239 root]$ sudo docker run busybox echo "hello from busybox"
hello from busybox
[qiushisung10-23-230-239 root]$

[qiushisung10-23-230-239 root]$
```

#### 作业 2:

#### 1.sudo docker search centos

[qiushisun@10-23-230-239 root]\$ sudo docker search centos				
NAME	DESCRIPTION	STARS	OFFICIAL	AUTOMATED
centos	The official build of CentOS.	6225	[0K]	
ansible/centos7-ansible	Ansible on Centos7	132		[0K]
consol/centos-xfce-vnc	Centos container with "headless" VNC session	122		[0K]
jdeathe/centos-ssh	OpenSSH / Supervisor / EPEL/IUS/SCL Repos	115		[0K]
centos/systemd	systemd enabled base container.	86		[0K]
centos/mysql-57-centos7	MySQL 5.7 SQL database server	83		

## 2.sudo docker pull centos

```
[qiushisun@10-23-230-239 root]$ sudo docker pull centos
Using default tag: latest
latest: Pulling from library/centos 3c72a8ed6814: Pull complete
Digest: sha256:76d24f3ba3317fa945743bb3746fbaf3a0b752f10b10376960de01da70685fbd
Status: Downloaded newer image for centos:latest docker.io/library/centos:latest
[qiushisun@10-23-230-239 root]$ ps
  PID TTY TIME CMD
2014 pts/0 00:00:00 bash
3159 pts/0 00:00:00 ps
[qiushisun@10-23-230-239 root]$ sudo docker images
                               IMAGE ID
                      TAG
REPOSITORY
                      latest
                                             6858809bf669
busybox
                                                                    4 weeks ago
                                                                                           1.23MB
centos
                       latest
                                             0d120h6ccaa8
                                                                    8 weeks ago
                                                                                           215MB
hello-world
                                             bf756fb1ae65
                                                                    9 months ago
                                                                                           13.3kB
                      latest
```

#### 3.sudo docker run centos

```
[qiushisun@10-23-230-239 root]$ sudo docker run centos
[qiushisun@10-23-230-239 root]$ ps
PID TTY TIME CMD
PID TTY TIME CMD
2014 pts/0 00:00:00 bash
3251 pts/0 00:00:00 ps
[qiushisun@10-23-230-239 root]$ sudo docker images
                                                                    IMAGE ID
6858809bf669
0d120b6ccaa8
REPOSITORY
                                 TAG
                                                                                                        CREATED
                                                                                                                                           ST7F
                                  latest
hello-world
                                   latest
                                                                     bf756fb1ae65
                                                                                                        9 months ago
                                                                                                                                           13.3kB
[qiushisun@10-23-230-239 root]$ sudo docker ps -a
CONTAINER ID IMAGE COMMAND
                                                                                                                                                                                                                               NAMES
                                                                     "/bin/bash"
"sh"
                                                                                                        24 seconds ago
7 minutes ago
18 minutes ago
                                                                                                                                           Exited (0) 23 seconds ago
Exited (0) 7 minutes ago
Exited (0) 18 minutes ago
                                                                                                                                                                                                                               sleepy_swirles
ecstatic_dhawan
happy_montalcini
cc784f9ca9b4
                                  centos
95c0e2d4723f
                                                                     "/hello"
```

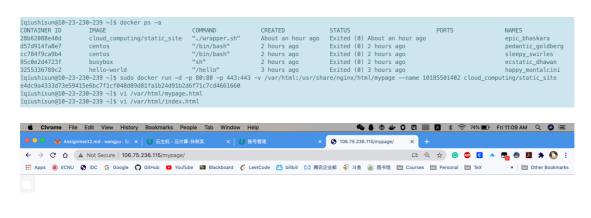
## 4.sudo docker run -t -i centos /bin/bash

```
[qiushisun@10-23-230-239 root]$ sudo docker run —t —i centos /bin/bash
[root@457d914fa8e7 /]# |scpu
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian
CPU(s): 1
On-line CPU(s) is: 0
Thread(s) per core: 1
Core(s) per socket: 1
Socket(s): 1
NUMA node(s): 1
Vendor ID: GenuineIntel
CPU family: 6
Model: 61
Model: 61
Model name: Intel Core Processor (Broadwell, no TSX)
Stepping: 2
CPU MHz: 2194.916
BogoMIPS: 4389.83
Hypervisor vendor: KVM
Virtualization type: full
Lld cache: 32K
Lld cache: 4096K
Lld cache: 61884K
NUMA node() CPU(S): 0
```

## 5.lscpu

## 作业3:

# (把示例中的容器关掉再开始)



#### Hello Docker!

This is being served from a docker container running Nginx.

my id is 10185501502,my name is QiushiSun

## 作业4:

```
Build an image from a Dockerfile
[qiushisun@10-23-230-239 demo]s docker build -t qiushisun/demo .
Sending build context to Docker daemon 3.07288
Step 177: FROW Cloud, computing/python1atest
latest: Pulling from cloud computing/python1atest
latest: Pulling from cloud computing/python S7dfialfiads Pull complete
7/12126105981: Pull complete
8/3716/932170: Pull complete
1/1594/932113 Pull complete
1/1594/932131 Pull complete
1/1594/932131 Pull complete
1/1594/932131 Pull complete
1/1594/93213 Pull complete
1/1594/9321
  [qiushisun@10-23-230-239 demo]$ docker images
                                                      TAG
                                                                                                                                            IMAGE ID
                                                                                                                                                                                                   CREATED
   REPOSITORY
                                                                                                                                                                                                                                                             SIZE
                                                                                      latest
                                                                                                                                             798f6512cafb
                                                                                                                                                                                                  About a minute ago 892MB
   giushisun/demo
                                                                                                                                                                                                   2 weeks ago
   cloud_computing/python
                                                                                      latest
                                                                                                                                             bbf31371d67d
                                                                                                                                                                                                                                                              882MB
                                                                                                                                                                                                    4 weeks ago
                                                                                                                                             6858809bf669
                                                                                                                                                                                                                                                               1.23MB
   centos
                                                                                    latest
                                                                                                                                             0d120b6ccaa8
                                                                                                                                                                                                  8 weeks ago
                                                                                                                                                                                                                                                             215MB
                                                                                                                                            bf756fb1ae65
   hello-world
                                                                                     latest
                                                                                                                                                                                                  9 months ago
                                                                                                                                                                                                                                                             13.3kB
   cloud_computing/static_site latest
                                                                                                                                            f01030e1dcf3
                                                                                                                                                                                                  4 years ago
                                                                                                                                                                                                                                                             134MB
  [qiushisun@10-23-230-239 demo]$
[qiushisun@10-23-230-239 ~]$ docker ps -a
CONTAINER ID IMAGE ""/bin/sh -c 'python ..."
46473aa12c86 qiushisun/demo
464C934333d7 cloud_computing/static_site
20bbC2088640d cloud_computing/static_site
675491478667 centos
675491476269b4 centos
7567-0-24472726 weepby "sh"

"sh"
"bin/bash"
                                                                                                                                                                                          STATUS
Up 34 minutes
Exited (0) About a minute ago
Exited (0) 3 hours ago
Exited (0) 4 hours ago
                                                                                                                                                                                                                                                                                                NAMES
elastic_elgamal
10185501402
epic_bhaskara
pedantic_goldberg
sleepy_swirles
ecstatic_dhawan
happy_montalcini
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    hello world!
```

Remarks:

- 1.修改配置文件一定要 restart
- 2.作业 3 和作业 4 都映射到云主机, 再使用用外网 IP 访问