

How to save your container to file and then load

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Purpose

Create a standard working environment for your team.

Procedure

Step 1: List your container

Command

sudo docker ps

Ex:

```
root@host-1:/home/vagrant# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
35d4c3e1813f	ceph/daemon	"/entrypoint.sh osd_c"	2 hours ago	Up 2 hours	
f510ae629381	ceph/daemon	"/entrypoint.sh mon"	2 hours ago	Up 2 hours	

Step 2: Select your container that you want to save to image

Command

sudo docker **commit** [YOUR CONTAINER] [Image Name]

Ex:

sudo docker **commit** **mon** **host-1-mon.container**

```
root@host-1:/home/vagrant# docker commit mon host-1-mon.container
c0d86daf802787c4c16bd9ccd7d62543ed1a3b8caecb24fe3ef6806812379e29
```

Verification

List docker images

Command

sudo docker **images**

```
root@host-1:/home/vagrant# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             VIRTUAL SIZE
host-1-mon.container latest             c0d86daf8027       7 seconds ago      560.8 MB
ceph/daemon         latest            e95c2f434dc1       11 days ago        560.8 MB
```

Step 3: Save Image to File

Command

docker **save** **[Your Image]** | gzip -c > **[Your File Name]**

Ex:

docker **save** **host-1-mon.container** | gzip -c > **host-1-mon.container.tgz**

```
root@host-1:/home/vagrant# docker save host-1-mon.container | gzip -c > host-1-mon.container.tgz
root@host-1:/home/vagrant# ls -la
total 187728
drwxr-xr-x 4 vagrant vagrant    4096 Apr 28 08:17 .
drwxr-xr-x 4 root   root       4096 Apr 28 06:03 ..
-rw-r--r-- 1 vagrant vagrant    220 Apr  9 2014 .bash_logout
-rw-r--r-- 1 vagrant vagrant   3637 Apr  9 2014 .bashrc
drwx----- 2 vagrant vagrant   4096 Apr 28 06:03 .cache
-rw-r--r-- 1 vagrant vagrant    675 Apr  9 2014 .profile
drwx----- 2 vagrant vagrant   4096 Apr 28 06:03 .ssh
-rwxr-xr-x 1 vagrant vagrant    992 Apr 28 06:03 common.sh
-rw-r--r-- 1 root   root      192199970 Apr 28 08:19 host-1-mon.container.tgz
```

Restore Image from file

```
sudo docker load < *.tgz
```

Or

```
gunzip -c [Your File Name] | docker load
```

Remove image

```
sudo docker rmi {image-id}
```

```
jing@jing-pc:~$ sudo docker rmi 01c454289e6d
Untagged: std_dev_tensorflow.container:latest
Deleted: sha256:01c454289e6d97077094e39469d1c9851f3b120c29e19f84f109aaa4c838d4c5
Deleted: sha256:5c1621904f9defc3d8751d8f972a9206263fd0785f8deeff28e18dde42411fa4
jing@jing-pc:~$
```

Reference

- <http://stackoverflow.com/questions/26707542/how-to-backup-restore-docker-image-for-deployment>