**Commands**

*docker —version*

*docker info*

*docker run -it ubuntu:latest                    # Run a container using <ubuntu:latest>*

*docker ps                                               # Check out the running containers*

*docker image ls* # show image that was downloaded to your machine

*docker image build -t <image name> .* #Build the Docker image, it’s image name

*docker container ls*  # find the id for your running container.

*docker container logs [container id]*# Check the log output of the container.

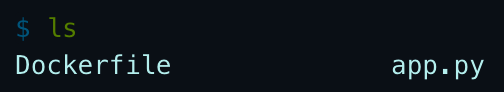
docker push sherryzhang619/python-hello-world:latest # push your image to the Docker Hub registry.

*docker service ps*  # Check out the running container of the service.

*docker service logs [service name]*   # Check the aggregated logs for the service.

**Dockerfile**

1. Create an empty directory.
2. Change directories (cd) into the new directory
3. Create a file called Dockerfile
4. Modify Dockerfile
5. Put all relations file in the same folder with the Dockerfile
6. Make sure folder contains all necessary file like below image:



**Container:**

1. start a container: **docker run -it ubuntu:latest**
2. stop all containers: **docker stop $(docker ps -a -q)**
3. check out all containers: **docker ps -a -q**
4. check out all running container:**docker ps**
5. delete multiple containers: **docker rm -f <container1\_id> <container2\_id> <container3\_id> …**
6. check out all running process in a container:**docker top <container\_name>**
7. go into a container: **sudo docker attach <container\_id>**/\*mac’s password is required\*/
8. start container: **docker start <container\_id>**
9. restart container: **docker restart <container\_id>**
10. check container ip: **docker inspect <container\_id> | grep IPAddress**

**Image:**

1. check out all images: **docker images**
2. delete image: **docker rmi <image\_id>**
3. force to delete image: **docker rmi -f <image\_id>**

**Folder：**

1. Mount a local repository: **docker run -it -v /Users/test:/soft ubuntu /bin/bash**

**Network:**

1. 端口映射的方式把Docker容器的服务提供给宿主机或者局域网其他容器使用。