1. Docker pull is used to download an image.

```
C:\Users\HP>docker pull docker/getting-started
Using default tag: latest
latest: Pulling from docker/getting-started
Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae
Status: Image is up to date for docker/getting-started:latest
docker.io/docker/getting-started:latest
```

2. A docker image is a file used to execute a code in a docker Container.

```
C:\Users\HP>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
docker/getting-started latest cb90f98fd791 6 months ago 28.8MB
```

 Docker runs the container in a detached mode. A container ia a Process which runs on the host. The host may be local or remote.

```
C:\Users\HP>docker run -d -p 80:80 docker/getting-started
d86960a9ee9b466dc9117d07dba1ca7bc3f34dbd6516cbbf58685efd518b276d
```

4.Docker ps command which is available inside the container used To the status of the process.

5. Docker build command builds the docker images. A build's context is a set of files .

```
      (env1) D:\docker>docker build -t hello-world .

      [+] Building 132.3s (10/10) FINISHED

      => [internal] load build definition from Dockerfile
      0.1s

      >> > transferring dockerfile: 153B
      0.0s

      > [internal] load .dockerignore
      0.1s

      >> > transferring context: 2B
      0.0s

      > [internal] load metadata for docker.io/library/python:3.7
      3.6s

      > [auth] library/python:pull token for registry-1.docker.io
      0.0s

      > [internal] load build context
      0.0s

      >> transferring context: 482B
      0.0s

      > [1/4] FROM docker.io/library/python:3.7@sha256:854121da1afed32db6c9fba556897633ad0e35a39f7a18c39ef54bf0968c96ce
      101.7s

      > > > transferring context: 482B
      0.0s

      > > | 1/4] FROM docker.io/library/python:3.7@sha256:854121da1afed32db6c9fba556897633ad0e35a39f7a18c39ef54bf0968c96ce
      101.7s

      > > > > sha256:9a3e76cc4679ac18af6913405e6e169bd307ffd547c39eab7f3b02078be6d7f5 2.22kB / 2.22kB
      0.0s

      > > > > sha256:f606d8928ed378229f2460b9db504cca239fb906efc57acbdf9340bd298d5ddf 55.05MB / 55.05MB
      55.05MB
      51.1s
```

6.Port number 8000 from the container on your docker host on port 5000.

```
(env1) D:\docker>docker run -d -p 5000:8000 hello-world 4d8868f42e0cd50a43d0d2d297b6140938a5eb2feaf5ee508321fb23eaac96a3
```

7. Docker rmi command is used to remove the images.

```
(env1) D:\docker>docker rmi -f hello-world
Untagged: hello-world:latest
```

8.Docker push is used to push a docker image to a docker hub repository.

```
D:\docker>docker push mpj347/hello-world:latest
The push refers to repository [docker.io/mpj347/hello-world]
2d2858fb5cfc: Pushed
5f70bf18a086: Pushed
b2da3b84421d: Pushed
212bcd807e9a: Mounted from library/python
```

9. Docker stop command is used to stop the container.

```
D:\docker>docker stop repo
repo
```

10. Docker restart command is udes to restart the container.

```
docker/getting-started latest
D:\docker>docker restart repo
repo
```

11. It will fetch logs from a specified container.

```
D:\docker>docker logs repo
Cloning into 'getting-started'...
fatal: destination path 'getting-started' already exists and is not an empty directory.
```

12. To remove the container.

```
D:\docker>docker rm repo
repo
```

13.List all docker containers details.

```
D:\docker>docker ps -a
CONTAINER ID IMAGE
CONTAINER ID IMAGE
COMMAND
CREATED STATUS
PORTS
NAMES
5d9dc8f3f4c3 docker/getting-started "/docker-entrypoint..." 29 hours ago Exited (255) 19 hours ago 0.0.0.0:80->80/tcp compassionate_neumann
D:\docker>
```

14. Lists the details of all the network in the cluster.

```
D:\docker>docker network ls
NETWORK ID
               NAME
                         DRIVER
                                    SCOPE
               bridge
                         bridge
f6ff72ef721d
                                    local
33be959e0c4c
                                    local
               host
                         host
f5fc7f66afb9
               none
                         null
                                    local
```

15.Get detailed information about docker installed on the system including the kernel version, number of containers and images.

```
D:\docker>docker info
Client:
Context:
              default
Debug Mode: false
 buildx: Docker Buildx (Docker Inc., v0.9.1)
  compose: Docker Compose (Docker Inc., v2.10.2)
 extension: Manages Docker extensions (Docker Inc., v0.2.9) sbom: View the packaged-based Software Bill Of Materials (SBOM) for an image (Anchore Inc., 0.6.0)
  scan: Docker Scan (Docker Inc., v0.19.0)
Server:
Containers: 1
 Running: 0
 Paused: 0
 Stopped: 1
 Images: 3
 Server Version: 20.10.17
Storage Driver: overlay2
```