

Docker file

```
mkdir mylabs  
cd mylabs
```

create a dockerfile named: dockerfile (using vi editor) and paste below commands

```
FROM alpine:3.5  
RUN apk update  
RUN apk add git
```

Now run the below commands

```
docker build -t myimage .  
docker images  
docker run -idt myimge /bin/sh  
docker ps  
docker attach <containerid>  
git --version  
exit  
docker stop <cotnainerid>  
docker ps -a  
docker rm <conatainerid>
```

ADD command

Create a dockerfile named : addfile

```
FROM alpine:3.5  
RUN apk update  
ADD http://www.vlsitechnology.org/pharosc_8.4.tar.gz .
```

```
root@k8s:/mylabs# cat addfile  
FROM alpine:3.5  
RUN apk update  
ADD http://www.vlsitechnology.org/pharosc_8.4.tar.gz .
```

```
docker build -t myimageadd -f addfile .
```

```
root@k8s:/mylabs# docker build -t myimageadd -f addfile .
[+] Building 17.7s (6/8)
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build definition from addfile
=> => transferring dockerfile: 120B
=> [internal] load metadata for docker.io/library/alpine:3.5
=> [auth] library/alpine:pull token for registry-1.docker.io
=> [1/3] FROM docker.io/library/alpine:3.5@sha256:66952b313e51c3
=> http://www.vlsitechnology.org/pharosc_8.4.tar.gz
```

```
docker images |grep myimageadd
```

```
root@k8s:/mylabs# docker images |grep myimageadd
myimageadd          latest          e95071c4c0a3    About a minute ago    71.5MB
root@k8s:/mylabs#
```

```
docker ps
```

```
root@k8s:/mylabs# docker ps
CONTAINER ID    IMAGE           COMMAND
NAMES
7403c7de80af    myimageadd      "/bin/sh"
angry_lewin
23ff52ccff94    registry:2      "/entrypoint.sh /etc..."
00->5000/tcp, :::5000->5000/tcp    registry
root@k8s:/mylabs#
```

```
docker attach 7403c7de80af
```

```
ls
```

```
exit
```

```
#Stop the container, and remove the container
```

## COPY instruction

```
echo "Welcome to Dockerlabs !" > index.html
```

create dockerfile named copydockerfile

```
FROM nginx:alpine
LABEL maintainer="OW"

COPY index.html /usr/share/nginx/html/
```

Build the docker image

```
docker image build -t copy:v1 -f copydockerfile .
```

### ***Starting the container***

```
docker container run -d --rm --name myapp1 -p 80:80 copy:v1
```

curl localhost

Multistage dockerfile, name multidockerfile

```
FROM alpine AS stage1
LABEL maintainer="OW"
RUN echo "Welcome to Docker Labs!" > /opt/index.html

FROM nginx:alpine
LABEL maintainer="OW"
COPY --from=stage1 /opt/index.html /usr/share/nginx/html/
ENTRYPOINT ["nginx", "-g", "daemon off;"]
```

### ***Building Docker Image***

```
$ docker image build -t cpy:v2 .
```

### ***Starting the container***

```
$ docker container run -d --rm --name myapp2 -p 8080:80 cpy:v2
```

### ***Checking index file***

```
$ curl localhost:8080
```

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