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Docker Ignore

Create a Dockerfile and add the following code:

FROM alpine

ADD . /app

COPY cmd.sh /cmd.sh

CMD ["sh", "-c", "/cmd.sh"]

To view this file type

```
$ cat Dockerfile
```

```
$ cat Dockerfile
FROM alpine
ADD . /app
COPY cmd.sh /cmd.sh
CMD ["sh", "-c", "/cmd.sh"]
```

Build an image named password

```
$ docker build -t password.
```

```
$ docker build -t password .
Sending build context to Docker daemon   4.096kB
Step 1/4 : FROM alpine
 ---> 3fd9065eaf02
Step 2/4 : ADD . /app
 ---> 0d561ecf6b55
Step 3/4 : COPY cmd.sh /cmd.sh
 ---> 9bf368322b34
Step 4/4 : CMD ["sh", "-c", "/cmd.sh"]
 ---> Running in 6dff3163ac91
Removing intermediate container 6dff3163ac91
 ---> df635928d0ac
Successfully built df635928d0ac
Successfully tagged password:latest
```

Look at the output using

```
$ docker run password ls /app
```

```
$ docker run password ls /app
Dockerfile
cmd.sh
passwords.txt
```

To ignore a file we name that file in .dockerignore.

Now to ignore a file let say 'password.txt'

```
$ echo passwords.txt >> .dockerignore
```

```
$ echo passwords.txt >> .dockerignore
```

Build the image, because of the Docker Ignore file it shouldn't include the passwords file.

```
$ docker built -t nopassword .
```

```
$ docker build -t nopassword .
Sending build context to Docker daemon   4.096kB
Step 1/4 : FROM alpine
 ---> 3fd9065eaf02
Step 2/4 : ADD . /app
 ---> a33962fac431
Step 3/4 : COPY cmd.sh /cmd.sh
 ---> 91475ffd6996
Step 4/4 : CMD ["sh", "-c", "/cmd.sh"]
 ---> Running in c78acdc522b5
Removing intermediate container c78acdc522b5
 ---> 3da153f254cc
Successfully built 3da153f254cc
Successfully tagged nopassword:latest
```

Look at the output using

```
$ docker run nopassword ls /app
```

```
$ docker run nopassword ls /app
Dockerfile
cmd.sh
```

You can see a 100M impact by executing following command

```
$ docker build -t large-file-context
```

```
$ docker build -t large-file-context .
Sending build context to Docker daemon 100M
Step 1/4 : FROM alpine
 ---> 3fd9065eaf02
Step 2/4 : ADD . /app
 ---> Using cache
 ---> c0fc11de8f93
Step 3/4 : COPY cmd.sh /cmd.sh
 ---> Using cache
 ---> e1c7b3cb7a66
Step 4/4 : CMD ["sh", "-c", "/cmd.sh"]
 ---> Using cache
 ---> ef15229c2149
Successfully built ef15229c2149
Successfully tagged large-file-context:latest
```

To reduce size we will ignore big file

```
$ echo big-temp-file.img >> .dockerignore
```

```
$ docker build -t no-large-file-context .
```

```
$ echo big-temp-file.img >> .dockerignore
$ docker build -t no-large-file-context .
Sending build context to Docker daemon  4.096kB
Step 1/4 : FROM alpine
 ---> 3fd9065eaf02
Step 2/4 : ADD . /app
 ---> cc1a3e86f3ff
Step 3/4 : COPY cmd.sh /cmd.sh
 ---> 1ad2467de2c7
Step 4/4 : CMD ["sh", "-c", "/cmd.sh"]
 ---> Running in f147e3d63551
Removing intermediate container f147e3d63551
 ---> 6099c3879166
Successfully built 6099c3879166
Successfully tagged no-large-file-context:latest
```