Changin uid/GID of the Container using Dockerfile

Step 1:- Check the gcxi images

```
[root@localhost ~]# docker images | grep -i "gcxi"
gcxi                    100.0.026.0001  bd4cb8c63f7c  4 months ago  13.1GB
gcxi_control               100.0.026.0001  f7154ec5b736  4 months ago  1.5GB
```

Step2:- Edit docker file

```
[root@localhost ~]# vi Dockerfile
## example, tune to your needs
FROM gcxi:100.0.026.0001

## temporarily - otherwise you won't be able to run useradd
USER root

## here we create a new user with desired id inside the container
## and add it to the appropriate user group
## before v. 100.0.021.0000: genesys (id=500)
## after v. 100.0.021.0000: root (id=0)
## all files in container are under corresponding group ownership:
## either genesys:genesys (500:500), or genesys:root (500:0), depending on GCXI version
## the new user will be able to manage all necessary file thru group ownership

## desired user id
ENV NEW_UID=1005

## not that important, as users between a Docker container and a host are mapped by user id
## that will be just a name of the user inside the container
ENV NEW_USER="myuser1005"

## temporary ownership fix ( this command is needed ONLY in v. 9.0.014.02)
#RUN chmod g=u /opt/tomcat/* &&\
#chmod g=u /opt/tomcat/bin/setenv.sh &&\
#chmod g=u /opt/tomcat/webapps/*/WEB-INF &&\
#chmod g=u /opt/tomcat/webapps/*/WEB-INF/* &&\
#chmod g=u /opt/tomcat/webapps/*/WEB-INF/xml/* &&\
#chmod g=u /opt/tomcat/webapps/*/WEB-INF/classes/config/* &&\
#chmod -R g=u /opt/tomcat/conf &&\
#chown $NEW_UID /opt/tomcat/bin/*.sh

## before v. 100.0.021.0000
#RUN useradd --gid 500 --uid $NEW_UID --home /home/genesys --shell /bin/bash $NEW_USER;

## since v. 100.0.021.0000
RUN useradd --gid 0 --uid $NEW_UID --home /home/genesys --shell /bin/bash $NEW_USER;
```

Step3:- Build the docker file

```
[root@localhost ~]# docker build . --tag gcxi_with_uid:100.0.026.0001
```

```
Sending build context to Docker daemon 85.28MB
Step 1/5 : FROM gcxi:100.0.026.0001
 ---> bd4cb8c63f7c
Step 2/5 : USER root
 ---> Running in 40e2cdcc21f7
Removing intermediate container 40e2cdcc21f7
 ---> dd01e2064109
Step 3/5 : ENV NEW_UID=1005
 ---> Running in b600f90edbc0
Removing intermediate container b600f90edbc0
 ---> 4ddb99cbe135
Step 4/5 : ENV NEW_USER="myuser1005"
 ---> Running in 3c136b3e9100
Removing intermediate container 3c136b3e9100
 ---> 45379877602e
Step 5/5 : RUN useradd --gid 0 --uid $NEW_UID --home /home/genesys --shell /bin/bash
$NEW_USER;
 ---> Running in 1262ff9054c6
useradd: warning: the home directory already exists.
Not copying any file from skel directory into it.
Removing intermediate container 1262ff9054c6
 ---> 862c789a4f2b
Successfully built 862c789a4f2b
```

Step4:- Verify and deploy newly created image

```
[root@localhost ~]# docker images
REPOSITORY                  TAG              IMAGE ID       CREATED          SIZE
gcxi_with_uid               100.0.026.0001   862c789a4f2b   6 minutes ago    13.1GB
gcxi                        100.0.026.0001   bd4cb8c63f7c   4 months ago     13.1GB
gcxi_control                100.0.026.0001   f7154ec5b736   4 months ago     1.5GB
```

Note:- New image includes the user “myuser1005” & “uid = 1005”