

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:- you can retag the newly build image using image id(Optional)

```
[root@localhost ~]# docker tag 862c789a4f2b gcxi_with_uid:100.0.026.0001
```

```
[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

step5:- Deploy the newly created image using various deployment methods