**BUILDING AND RUNNING GALAXY LOCALLY VIA DOCKER:**

Go to directory that your docker code is located in your workspace. On my machine it is at: c:\users\stucky\git\NGCHM\_Galaxy

1. Check to see if app is deployed: **docker ps –a** (the running process is galaxy\_test)
2. Stop docker: **docker stop galaxy\_test**
3. Remove galaxy\_test: **docker rm galaxy\_test**
4. Build ngchm\_galaxy: **docker build -t ngchm\_galaxy .**
5. Run docker: **docker run --name="galaxy\_test" -d -p 8888:80 -p 7021:21 -e "GALAXY\_CONFIG\_ADMIN\_USERS=mstucky@insilico.us.com" ngchm\_galaxy**
6. You may now access the latest Galaxy DEV code on your localhost using the URL: ***http://localhost:8888/***
7. Suppose you want to just run the base docker image (bgruening/galaxystable) on your local machine… then run this command: **docker run --name="galaxy\_test" -d -p 8888:80 -p 7021:21 -e "GALAXY\_CONFIG\_ADMIN\_USERS=mstucky@insilico.us.com"** bgruening/galaxy-stable

**Production:**

1. Remove local image for: **docker rm ngchm/ngchm-galaxy**
2. Run the docker version in production on my machine: **docker run --name="galaxy\_test" -d -p 8888:80 -p 7021:21 -e "GALAXY\_CONFIG\_ADMIN\_USERS=mstucky@insilico.us.com" ngchm/ngchm-galaxy**

**EDITING IN A RUNNING DOCKER CONTAINER**

1. Bash into container: **docker exec -it galaxy\_test /bin/bash**
2. Where am I: **pwd**
3. DIR Command: **ls**
4. Script directory in tools: **cd tools**
5. Advanced heatmap creation: **cd Adv\***
6. Edit advanced script: **vi heatmap\_advanced.sh**
7. See all images: **docker images**
8. Remove an image: **docker rmi *image\_process\_number***