Module 3 – Dockerfiles: Lab

# Lab Objectives

Create a dockerfile

Build container using dockerfile

Create image to deploy website

1. Run a Jenkins container

1. Create a new directory for this exercise: **~/docker/03\_dockerfile\_exercises**
2. Make a Dockerfile in the new directory and enter the contents below

FROM nginx:latest

RUN printf “My Custom NGINX\n” > /usr/share/nginx/html/index.hmtl

2. Access container files

1. Build the docker image, giving it a suitable name
   * Docker build biomiller/nginx .
2. Run the image in a container, publishing port 80
   * Docker run –p 80:80 –d –name nginx\_test biomiller/nginx
3. Access the service on localhost in your browser or by using a command line tool such as curl
   * "My Custom NGINX Image" should be displayed

3. Finish Up

1. Stop and remove the container
   1. Docker stop nginx\_tst
   2. docker rm nginx\_test
2. Delete the image that you created
   1. Docker rmi biomiller/nginx
3. Try to create an image that will deploy your own static website
   1. FROM nginx:alpine

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

docker build -t nginx\_test .

docker run --rm -d -p 80:80 --name nginx\_con1 nginx\_test