## Lesson 02 Demo 02

## **Creating a Docker Image**

**Objective:** To create a Docker image using a Docker file, which installs and configures a Nginx web server with a custom welcome message

Tools required: Docker

Prerequisites: None

Steps to be followed:

1. Create a Docker image using the Docker file

## Step 1: Create a Docker image using the Docker file

1.1 Use the following command to create a directory:

mkdir demo

```
labsuser@ip-172-31-32-178:~$ mkdir demo
labsuser@ip-172-31-32-178:~$ cd demo
labsuser@ip-172-31-32-178:~/demo$
```

1.2 Use the following command to create the Docker file:

vi Dockerfile

```
labsuser@ip-172-31-32-178:~$ mkdir demo
labsuser@ip-172-31-32-178:~$ cd demo
labsuser@ip-172-31-32-178:~/demo$ vi Dockerfile
```

1.3 Add the following code to the **Dockerfile**:

FROM ubuntu **RUN** apt-get update RUN apt-get install -y nginx COPY index.nginx-debian.html /var/www/html CMD nginx -g 'daemon off;'

```
FROM ubuntu
RUN apt-get update
RUN apt-get install -y nginx
COPY index.nginx-debian.html /var/www/html
CMD nginx -g 'daemon off;'
```

1.4 Use the following command to create another file in the same directory:

vi index.nginx-debian.html

```
labsuser@ip-172-31-32-178:~/demo$ vi index.nginx-debian.html
labsuser@ip-172-31-32-178:~/demo$
```

1.5 Add the following welcome message to the index file:

WELCOME TO NGINX.

```
WELCOME TO NGINX.
```

1.6 Use the following command to execute the Docker file: sudo docker build .

1.7 Execute the given command to display the images. This will confirm that the image has been created.

## sudo docker images

```
labsuser@ip-172-31-32-178:~/demo$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
<none> <none> d7aad287f1df 5 minutes ago 183MB
labsuser@ip-172-31-32-178:~/demo$
```

By following these steps, you have successfully created a Docker image containing a Nginx web server with a custom welcome message using a Docker file. This image can then be used to spin up containers with the configured web server environment.