



Module 3: Hands-On: Saving Changes to a Docker Container

Step 1: Pull the docker container using the command:

```
$ docker pull ubuntu
```

```
ubuntu@ip-172-31-26-120: ~  
ubuntu@ip-172-31-26-120:~$ docker pull ubuntu  
Using default tag: latest  
latest: Pulling from library/ubuntu  
32802c0cfa4d: Pull complete  
da1315cffa03: Pull complete  
fa83472a3562: Pull complete  
f85999a86bef: Pull complete  
Digest: sha256:6d0e0c26489e33f5a6f0020edface2727db9489  
Status: Downloaded newer image for ubuntu:latest  
ubuntu@ip-172-31-26-120:~$
```

Step 2: Run the container using the commands

```
$ docker container run -it -d ubuntu
```

```
ubuntu@ip-172-31-26-120: ~  
ubuntu@ip-172-31-26-120:~$ docker run -it -d ubuntu  
ab21899b05123efefa5367a8b0728fd912cba9657bb35973692  
ubuntu@ip-172-31-26-120:~$
```

Step 3: Access the container using the command:

```
$ docker exec -it <container-id> bash
```

```
root@ab21899b0512: /  
ubuntu@ip-172-31-26-120:~$ docker exec -it ab21899b0512 bash  
root@ab21899b0512: /#
```

Step 4: Install apache2 on this container, using the following:

```
$ apt-get update
```

```
$ apt-get install apache2
```

```
root@ab21899b0512: /  
root@ab21899b0512:/# apt-get install apache2  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  apache2-bin apache2-data apache2-utils file libapr1  
  libaprutil1-dbd-sqlite3 libaprutil1-ldap libasn1-8-
```

Step 5: Exit the container, and save the container using this command.
The saved container will be converted into an image with the name specified is

```
$ docker commit <container-id> <username>/<container-name>
```

```
ubuntu@ip-172-31-26-120: ~  
ubuntu@ip-172-31-26-120:~$ docker commit ab21899b0512 intellipaat/apache  
sha256:c8446a9b3ca4a6436cbcd6765744bbcf2e1629e1c25fc54ddfa1e34377326c  
ubuntu@ip-172-31-26-120:~$ docker images  
REPOSITORY          TAG             IMAGE ID        CREATED  
SIZE  
intellipaat/apache  latest         c8446a9b3ca4   21 seconds  
206MB
```

The username must match with the username which you created on Docker Hub.
The container-name name can be anything.