# Exercise: Exercise: Creating Images from Containers

1 2

1. Using the CentOS 6 base image download, start a container based on that image. Be sure that container starts connected to the current terminal in interactive mode and runs the bash command so you are logged in to the command prompt on the container once it boots.

```
[user@linuxacademy:~]$ docker run –it centos:centos6 /bin/bash
(Output)
[root@b237d65fd197 /]#
(Output)
```

2. Once you are sitting at a command prompt on the running container, execute the update command (installing all updates for the container OS).

```
[root@b237d65fd197 /]# yum –y update (or yum –y upgrade)
(Output)
List of packages needing update and being applied here
(Output)
```

3. Now that updates are complete, install the Apache Web Server. Once installed, make sure the web server service will start and verify that the container is listening on port 80 (install other software if needed to do so).

```
[root@b237d65fd197 /]# yum install httpd

(Output)

Installed:
  httpd.x86_64 0:2.2.15-
45.el6.centos

Dependency Installed:
  apr.x86_64 0:1.3.9-5.el6_2                    apr-
util.x86_64 0:1.3.9-3.el6_0.1    apr-util-ldap.x86_64
0:1.3.9-3.el6_0.1
  httpd-tools.x86_64 0:2.2.15-45.el6.centos
mailcap.noarch 0:2.1.31-2.el6        redhat-logos.noarch
0:60.0.14-12.el6.centos

Complete!

(Output)

[root@b237d65fd197 /]# yum install telnet

(Output)

Like output above, telnet is installed

(Output)

[root@b237d65fd197 /]# service httpd start

(Output)

httpd start                                [OK]

(Output)

[root@b237d65fd197 /]# telnet localhost 80

(Output)

Trying 127.0.0.1...
Connected to localhost.localdomain.
Escape character is '^]'.
(Output)
```

4. Exit the container. Once the container is stopped, execute the appropriate command to list all stopped containers and locate the name and ID of the container you just exited. Make a note of the name and ID.

```
[root@b237d65fd197 /]# exit

[user@linuxacademy:~]$ docker ps –a

(Output)

CONTAINER ID        IMAGE               COMMAND
CREATED             STATUS
PORTS               NAMES
b237d65fd197        centos:6            "/bin/bash"         2
minutes ago         Exited (0) 2 minutes
ago                       furious_rosalind

(Output)
```

5. Using the name or ID of the container, commit the changes you made within it to a new base image called "newcentos:withapache" and verify that it shows when you list the images on your system.

```
 [user@linuxacademy:~]$ docker commit b237d65fd197
newcentos:withapache

 (Output)

 18bd1fc4d60fa29ff9591f46b86ea0ad7652214d81b4e26343723e81fdbffd8a

 (Output)

 [user@linuxacademy:~]$ docker images

 (Output)

 REPOSITORY          TAG                 IMAGE ID
CREATED             VIRTUAL SIZE
newcentos           withapache          18bd1fc4d60f        4
seconds ago       480.6 MB
centos              6                   a005304e4e74        9
weeks ago         203.1 MB
centos              centos6             a005304e4e74        9
weeks ago         203.1 MB
(Output)
```

Back Mark as Completed