Exercise: Exercise: Managing Containers

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1. Create a container from the base image for the latest version of Ubuntu available (if you do not have an Ubuntu base image installed locally, pull the latest one down for your local repository). The container should be started in interactive mode attached to the current terminal and running the bash shell. Once running, shut the container down by exiting.

```
user@linuxacademy:~$ docker pull ubuntu:latest

Pulling repository ubuntu

91e54dfb1179: Download complete

d3a1f33e8a5a: Download complete

c22013c84729: Download complete

d74508fb6632: Download complete

Status: Downloaded newer image for ubuntu:latest

user@linuxacademy:~$ docker images

REPOSITORY                      TAG                    IMAGE ID
         CREATED                VIRTUAL SIZE

mycustomimg/withservices    v1
 dcfdd130c812        29 hours ago        506.9 MB

newcentos                   withapache
 18bd1fc4d60f        2 days ago          480.6 MB

ubuntu                      latest
 91e54dfb1179        4 days ago          188.4 MB

ubuntu                      trusty
 91e54dfb1179        4 days ago          188.4 MB

ubuntu                      trusty-20150814
91e54dfb1179        4 days ago          188.4 MB

ubuntu                      14.04
91e54dfb1179        4 days ago          188.4 MB

ubuntu                      14.04.3
91e54dfb1179        4 days ago          188.4 MB

centos                      6
a005304e4e74        9 weeks ago         203.1 MB

centos                      centos6
a005304e4e74        9 weeks ago         203.1 MB

user@linuxacademy:~$ docker run -it ubuntu:latest
/bin/bash

root@a163412a382b:/# exit
```

```
exit
```

2. Run the appropriate Docker command to get the name of the previously run container. Issue the appropriate command to restart the container that you obtained the name of. Do NOT create a new container, restart the one we just used.

```
user@linuxacademy:~$ docker ps -a

CONTAINER ID          IMAGE                    COMMAND
    CREATED                 STATUS
 PORTS                  NAMES

a163412a382b          ubuntu:14.04        "/bin/bash"
    About a minute ago    Exited (0) About a minute ago
                        agitated_bohr

b237d65fd197          centos:6              "/bin/bash"
    2 days ago            Exited (0) 2 days ago
                    furious_rosalind

user@linuxacademy:~$ docker restart agitated_bohr

agitated_bohr

user@linuxacademy:~$ docker ps

CONTAINER ID          IMAGE                    COMMAND
    CREATED                 STATUS                 PORTS
      NAMES

a163412a382b          ubuntu:14.04        "/bin/bash"
    2 minutes ago         Up 16 seconds
      agitated_bohr
```

3. Stop the container. Remove that container from the system completely using the appropriate command.

```
user@linuxacademy:~$ docker stop agitated_bohr

agitated_bohr

user@linuxacademy:~$ docker ps

CONTAINER ID          IMAGE                   COMMAND
    CREATED               STATUS              PORTS
        NAMES

user@linuxacademy:~$ docker ps -a

CONTAINER ID          IMAGE                   COMMAND
    CREATED               STATUS                        PORTS
            NAMES

a163412a382b          ubuntu:14.04          "/bin/bash"
    3 minutes ago         Exited (0) 5 seconds ago
                agitated_bohr

b237d65fd197          centos:6              "/bin/bash"
    2 days ago            Exited (0) 2 days ago
            furious_rosalind

user@linuxacademy:~$ docker rm agitated_bohr

agitated_bohr

user@linuxacademy:~$ docker ps -a

CONTAINER ID          IMAGE                   COMMAND
    CREATED               STATUS                        PORTS
          NAMES

b237d65fd197          centos:6              "/bin/bash"
    2 days ago            Exited (0) 2 days ago
            furious_rosalind
```

4. Create (not run) a container called "my_container", create it with parameters that will allow it to run interactively and attached to the local console running the bash shell. Verify that the container is not running.

```
user@linuxacademy:~$ docker create -it --
name="my_container" ubuntu:latest /bin/bash

a8eccaa97e322ff640bb9f7071f191dc9a514afb324af28269ffbb7ae75466

user@linuxacademy:~$ docker ps -a

CONTAINER ID          IMAGE              COMMAND
   CREATED              STATUS                    PORTS
        NAMES

a8eccaa97e32          ubuntu:14.04       "/bin/bash"
   4 seconds ago
        my_container

b237d65fd197          centos:6           "/bin/bash"
   2 days ago           Exited (0) 2 days ago
        furious_rosalind
```

5. Start the container and again, verify the container is running. Run the appropriate command to attach your session to the running container so you are logged into the shell.

```
user@linuxacademy:~$ docker start my_container

my_container

user@linuxacademy:~$ docker ps

CONTAINER ID          IMAGE              COMMAND
   CREATED              STATUS                    PORTS
     NAMES

a8eccaa97e32          ubuntu:14.04       "/bin/bash"
   30 seconds ago       Up 2 seconds
      my_container

user@linuxacademy:~$ docker attach my_container

root@a8eccaa97e32:/#

root@a8eccaa97e32:/# exit
```

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