Running the MapR Container for Developers Script

The MapR Container for Developers script, `mapr_devsandbox_container_setup.sh` *,
downloads the Docker image associated with the container and launches the container
image that starts the MapR cluster. It also performs the configuration steps needed to
connect local MapR clients to the MapR cluster running in the container.*

1. Download `mapr_devsandbox_container_setup.sh` (https://raw.githubusercontent.com/mapr-demos/mapr-db-60-getting-started/master/mapr_devsandbox_container_setup.sh) from github

2. Modify the script so it is executable:

   ```
   chmod +x mapr_devsandbox_container_setup.sh
   ```

3. Run the script:

   ```
   ./mapr_devsandbox_container_setup.sh
   ```

   Note: The script may take 5-10 minutes to run the first time run it. It requires downloading the Docker image from the Docker repository.

4. When the Docker image is running, you will see the following output:

   ```
   Docker Container is coming up....                                    Copy
   Mac Client has been configured with the docker container.

   Please login to the container using (root password mapr): ssh root@localhost -p 2222
   Login to MCS at https://localhost:8443
   ```

5. Log in to the Docker container:

   ```
   ssh root@localhost -p 2222
   ```

6. Wait for the `AdminApplication` java process to start by viewing the output from `jps` :

   ```
   root@maprdemo:~# jps
   3472 WardenMain
   28369 Jps
   5105 CLDB
   13810 RunJar
   28259 FsShell
   13235 AdminApplication
   3232 QuorumPeerManager
   12280 Drillbit
   14122 RunJar
   ```

7. When `AdminApplication` is running, you can access the MapR Control System (MCS) in your browser using the following URL:

   ```
   https://localhost:8443
   ```

8. After all MapR services are running, you can access MapR file system using POSIX commands, with `/mapr` as your mount point. The following steps show you how to determine that all services are running:

   a. Determine the id of your Docker container by examining the output from the following command:

   ```
   docker ps
   ```

   b. Examine the contents of the Docker logs using the container id from Step 8a:

   ```
   docker logs ca2c94d9e822
   ```

   c. It may take a few minutes for all services to initialize, depending on the load in your environment. Output similar to the following in your log output indicates that all services are running:

   ```
   This container IP : 172.17.0.2
   ```

   d. Log in to the container using the command from Step 5

   e. Run the following command to access MapR file system using `ls` :

   ```
   root@maprdemo:~# ls /mapr
   ```

Note: Whenever you change your network environment, you must reconfigure your container. Rerun the `mapr_devsandbox_container_setup.sh` script and select option 2 when the script shows the following prompt:

```
MapR sandbox container is already running.
1. Kill the earlier run and start a fresh instance
2. Reconfigure the client and the running container for any network changes
Please enter choice 1 or 2 :
```