Lab 5 - Launch a Marathon Service

Lab Completion Time: 10 -15 minutes.

Step 1

SSH in to your bootstrap node with the **centos/me\$o\$ph3r3**_ credentials:

```
$ ssh centos@<bootstrap_node_public_IP>
```

Step 2

Create a JSON file in the ~/apps directory using your favorite text editor called basic.json with the following contents:

```
basic.json

{
   "id": "/hello-world",
   "cmd": "while [ true ]; do echo -n 'Hello Marathon: '; date; sleep 5; done",
   "cpus": 0.1,
   "mem": 10.0,
```

Step 3

}

Use this file to spin up a Marathon job:

"instances": 2

```
$ dcos marathon app add ~/apps/basic.json
```

Step 4

List currently active Marathon services:

In the output above, the column labeled TASKS displays 2/2 once both requested container instances arrive to a running state.

Step 5

List all currently active containers (tasks in Mesos terminology):

```
$ dcos task
NAME
             HOST
                         USER STATE
                                      ΙD
                                                            MESOS ID
                                                                          REGION
                                      hello-world.a8d8570f
hello-world 10.0.0.105
                                 R
                                                            690b7178-S0
                         root
                                                                         aws/us-west-2
hello-world 10.0.0.224
                         root
                                      hello-world.a8d808ee
                                                            690b7178-S1
                                                                          aws/us-west-2
```

Copy one of the ID columns and use it in the command below:

```
$ dcos task log --follow <TASK_ID>
```

You should now be following the output of what is being written to stdout in the container. Press Ctrl-C on your keyboard to get back to your command prompt.

To follow the output of stderr, simply append the filename to the end of the command:

```
$ dcos task log --follow <TASK_ID> stderr
```

Step 7

Run this command to scale the service down to 0 instances:

```
$ dcos marathon app stop hello-world
Created deployment 9f326ea1-fd7e-4028-9bca-64ac271ef95a
```

Step 8

Run the list command to see what is running on your cluster:

Notice the values under the TASKS column are now 0/0, indicating we have 0 running instances and 0 requested instances.

Step 9

Start up ten instances of our stopped service:

```
$ dcos marathon app start hello-world 10
```

Run the list command to see we now have ten instances running:

```
$ dcos marathon app list
ID
                  CPUS
                                                                         CMD
              MEM
                        TASKS HEALTH
                                        DEPLOYMENT
                                                    WAITING
                                                             CONTAINER
/hello-world
               10
                   0.1
                         10/10
                                                     False
                                                                 N/A
                                                                         while [ true ];
```

Step 10

Finally run this command to delete this service entirely:

\$ dcos marathon app remove hello-world

You can then verify that /hello-world is no longer defined on the cluster:

\$ dcos marathon app list

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