Lab 6 - Launch a Docker Based Marathon Service

Next up we are going to spawn a Docker based service web service using a Docker container image called **minitwit**.

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

Using a text editor, create a file called `minitwit.json` in the `~/apps` directory and populate it with the contents below:

minitwit.json

```
{
  "id": "/minitwit",
  "instances": 1,
  "cpus": 1,
  "mem": 512,
  "container": {
    "type": "DOCKER",
    "docker": {
      "image": "karlkfi/minitwit",
      "forcePullImage": false,
      "privileged": false,
      "portMappings": [
        {
          "hostPort": 10000,
          "containerPort": 80,
          "protocol": "tcp"
        }
      ],
      "network": "BRIDGE"
    }
  },
  "acceptedResourceRoles": [
    "slave_public"
  ],
  "requirePorts": true
}
```

Step 3

Now run the Marathon command to spin this app up:

```
$ dcos marathon app add ~/apps/minitwit.json
Created deployment 15629d2b-a3d9-47c1-be84-f1d055925826
```

Use the list command to verify that it is running:

```
$ dcos marathon app list
ID         MEM  CPUS  TASKS  HEALTH  DEPLOYMENT  WAITING  CONTAINER  CMD
/minitwit  512   1     1/1    N/A       ---      False      DOCKER   N/A
```

Step 4

Point your web browser to `http://<public_agent_public_IP>:10000` and check out **Minitwit**'s user interface.

Step 5

Use the Marathon CLI to stop and remove the **Minitwit** service:

```
$ dcos marathon app remove minitwit
```

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