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Using a Private Docker Registry

This document describes how to initiate a Docker (https://docker.com/) pull from an authenticated private registry.

Registry 1.0 - Docker pre 1.6

To supply credentials to pull from a private registry, add a `.dockercfg` to the `uris` field of your app. The `$HOME` environment variable will then be set to the same value as `$MESOS_SANDBOX` so Docker can automatically pick up the config file.

Registry 2.0 - Docker 1.6 and up

To supply credentials to pull from a private registry, add a `docker.tar.gz` file to the `uris` field of your app. The `docker.tar.gz` file should include the `.docker` folder and the contained `.docker/config.json`

Step 1: Tar/Gzip credentials

1. Login to the private registry manually. Login creates a `.docker` folder and a `.docker/config.json` in the users home directory

```
$ docker login some.docker.host.com
  Username: foo
  Password:
  Email: foo@bar.com
```

2. Tar this folder and it's contents

```
$ cd ~
$ tar czf docker.tar.gz .docker
```

3. Check you have both files in the tar

```
$ tar -tvf ~/docker.tar.gz

  drwx------ root/root         0 2015-07-28 0
2:54 .docker/
  -rw------- root/root       114 2015-07-28 0
1:31 .docker/config.json
```

4. Put the gziped file in location which can be retrieved via mesos/marathon (optional).

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Task Handling

```
$ cp docker.tar.gz /etc/
```

> **Note:** The URI must be accessible by all nodes that may start your application. Approaches may include distributing the file to the local filesystem of all nodes, for example via RSYNC/SCP, or storing it on a shared network drive, for example [Amazon S3](http://aws.amazon.com/s3/). It is worth considering the security implications of your chosen approach.

Step 2: Mesos/Marathon config

1. Add the path to the gzipped login credentials to your Marathon app definition

```
"uris": [
   "file:///etc/docker.tar.gz"
]
```

2. For example:

```
{
  "id": "/some/name/or/id",
  "cpus": 1,
  "mem": 1024,
  "instances": 1,
  "container": {
    "type": "DOCKER",
    "docker": {
      "image": "some.docker.host.com/namespac
e/repo",
      "network": "HOST"
    }
  },
  "uris":  [
      "file:///etc/docker.tar.gz"
  ]
}
```

3. Docker image will now pull using the provided security credentials given.

More information

Find out how to set up a private Docker registry (https://dcos.io/docs/1.8/usage/tutorials/registry/) with DC/OS.

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