Transcode

Docker based transcoding platform

Deployment manual

Summary

I. Installing Docker

Docker is an open-source project that automates the deployment of applications inside software containers.
Since Transcode is based on a Docker infrastructure, you will need to install the Docker engine and Docker Compose. Transcode only support linux systems.
We always work as **root**

On Debian/Ubuntu

```
# apt-get update
# apt-get install docker-engine
# service docker start
# docker run hello-world
# curl -L
https://github.com/docker/compose/releases/download/1.7.1/docker-compose
-`uname -s`-`uname -m` > /usr/local/bin/docker-compose
# chmod +x /usr/local/bin/docker-compose
```

You can also run the install script for Ubuntu.

On ArchLinux

```
# pacman -Syu docker
# systemctl start docker
# docker run hello-world
# curl -L
https://github.com/docker/compose/releases/download/1.7.1/docker-compose
-`uname -s`-`uname -m` > /usr/local/bin/docker-compose
# chmod +x /usr/local/bin/docker-compose
```

On CentOS

```
# yum update
# curl -fsSL https://get.docker.com/ | sh
# docker run hello-world
# curl -L
https://github.com/docker/compose/releases/download/1.7.1/docker-compose
-`uname -s`-`uname -m` > /usr/local/bin/docker-compose
# chmod +x /usr/local/bin/docker-compose
```

II. Getting started

The project is on GitHub, you can get the latest release here[1]
Also if you have already the release, you can just do in the Transcode directory :

```
# docker-compose up -d

To get the IP of the web app
# docker inspect transcode_balancer_1  | grep "\"IPAddress\":"

To scale your application with docker
# docker-compose  scale web=<web_nb> core=<core_nb> worker=<worker_nb>
```

You can access your app on the IP address of the web app, you can also access the HAProxy dashboard on the port 3000 and root:root as user and password.

You can also use the `scripts/start.sh` and `scripts/stop.sh` script to launch Transcode.
To clean all docker container and docker images, use `scripts/clean.sh`.

[1] https://github.com/wdhif/transcode

III. High-Availability

By default transcode is highly-available, but because Docker is not meant to preserve data in containers, for that you can use an S3 bucket with the S3 driver for Docker.

If you want you can also use Docker Swarm. To do so you'll have to install first docker-machine on each node.

```
# curl -L
https://github.com/docker/machine/releases/download/v0.7.0/docker-machin
e-`uname -s`-`uname -m` > /usr/local/bin/docker-machine
# chmod +x /usr/local/bin/docker-machine
```

Now you can run the swarm container on each node.

```
# docker run swarm
```

You must run the swarm master on your master node.

```
# docker run --rm swarm create
```

You will have to make all swarm instance join your master node.

```
# docker run -d swarm join --addr=<node_ip>:<node_port>
token://<cluster_id>
```

Finally, you can run your compose on the swarm master node.

```
# docker-compose up -d
```