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 Dockerfile	Update maintainer email	4 years ago
 README.md	Add link to blog post	4 years ago
 docker-register.service	Add CoreOS unit file	4 years ago
 etcd.tmpl	Added etcd.EtcdKeyNotFound exception handling	4 years ago

 README.md

docker-register sets up a container running [docker-gen](#). docker-gen dynamically generate a python script when containers are started and stopped. This generated script registers the running containers host IP and port in etcd with a TTL. It works in tandem with docker-discover which generates haproxy routes on the host to forward requests to registered containers.

Together, they implement [service discovery](#) for docker containers with a similar architecture to [SmartStack](#). docker-register is analagous to [nerve](#) in the SmartStack system.

See also [Docker Service Discovery Using Etcd and Haproxy](#)

### Usage

To run it:

```
$ docker run -d -e HOST_IP=1.2.3.4 -e ETCD_HOST=1.2.3.4:4001 -v /var/run/docker.sock:/var/run/docker.sock -t jwilder/docker-register
```

Then start any containers you want to be discoverable and publish their exposed port to the host.

```
$ docker run -d -P -t ...
```

If you run the container on multiple hosts, they will be grouped together automatically.

### Limitations

There are a few simplifications that were made:

- Containers can only expose one port - This is a simplification but if the container expose s multiple ports, it won't be registered in etcd.
- Exposed ports must be unique to the service - Each container must expose it's service on a unique port. For example, if you have two different backend web services and they both expose their service over port 80, then one will need to use a port 80 and the other a different port.

### TODO

- Support http, udp proxying
- Support multiple ports
- Make ETCD prefix configurable
- Support other backends (consul, zookeeper, redis, etc.)