

autopilotpattern / etcd

A service for autodiscovery and configuration of applications running in containers

20 commits1 branch0 releases3 contributorsMPL-2.0

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cheapRoc	Merge pull request #7 from cheapRoc/b-restart	Latest commit fea9979 on Jun 22, 2017
bin	Remove public ports from provisioning on Triton	a year ago
.gitignore	Upgrade to etcd v3.2	a year ago
Dockerfile	Remove ContainerPilot artifacts	a year ago
LICENSE	Initial commit	2 years ago
README.md	Touch up README.md	a year ago
docker-compose.yml	Forgot restart always within docker-compose files	a year ago
local-compose.yml	Forgot restart always within docker-compose files	a year ago
start.sh	Only start on Triton if Docker certs are from triton CLI	a year ago

README.md

Autopilot pattern etcd

Autopilot Pattern implementation of *etcd*

docker pulls1k

docker stars0

ImageLayers.io

0 B / 9 Layers

chat

on gitter

This repo is a demonstration of [etcd](#) designed for self-operation according to the [Autopilot pattern](#).

An etcd cluster needs an external source of data for all the nodes to find each other initially. This can be a bootstrap service (another etcd cluster) or an SRV record. Triton CNS does not yet support SRV records, so until it does we're standing up a temporary single-node cluster to bootstrap the cluster. After the cluster is scaled-up we can remove the bootstrap node.

Getting started

1. [Get a Joyent account](#) and [add your SSH key](#).
2. Install the [Docker Toolbox](#) (including `docker` and `docker-compose`) on your laptop or other environment.
3. Install the [Triton Docker CLI](#) when utilizing this pattern on Triton as well. This provides both `triton-docker` and `triton-compose` .
4. Install the the [Joyent Triton CLI](#) (`triton` replaces our old `sdc-*` CLI tools) and set up your Triton profile.

At this point you're ready to start the cluster. A script `./start.sh` has been provided. It detects your deployment options, either Triton or local Docker, and uses Docker Compose to create each node. An initial bootstrap node is created along with a discovery token (see the [etcd docs on cluster discovery](#) for details) before the cluster can be scaled up. You can pass an environment variable `SCALE` to the `./start.sh` script to set the cluster size to something other than the default 3 nodes.

Starting

```
$ ./start.sh
Using discovery node for bootstrapping local 3-node cluster.
Starting e_bootstrap_1
{"action": "set", "node": {"key": "/discovery/2AF6A60D-5196-4358-AA7B-A706DC74D3BD/_config/size", "value": "3", "modifiedIndex": 1, "ttl": 300}}
e_bootstrap_1 is up-to-date
Creating e_etcd_3
Creating e_etcd_2
Creating e_etcd_1
Desired container number already achieved
Stopping bootstrap node, no longer required
e_bootstrap_1
```

```
Displaying cluster health
member 4ed7a60797acad53 is healthy: got healthy result from http://172.18.0.4:2379
member aef40bf222ea5e2f is healthy: got healthy result from http://172.18.0.3:2379
member c329c4aa339bb6f7 is healthy: got healthy result from http://172.18.0.5:2379
```

```
$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
8e65eb4e319c	autopilotpattern/etcd	"/usr/local/bin/et..."	12 minutes ago	Up 12 minutes	0.0.0.0:3
ef351973dd19	autopilotpattern/etcd	"/usr/local/bin/et..."	12 minutes ago	Up 12 minutes	0.0.0.0:3
930804bf69fd	autopilotpattern/etcd	"/usr/local/bin/et..."	12 minutes ago	Up 12 minutes	0.0.0.0:3

Stopping

```
$ COMPOSE_PROJECT_NAME=e docker-compose -f local-compose.yml stop
Stopping e_etcd_1 ... done
Stopping e_etcd_2 ... done
Stopping e_etcd_3 ... done
```

You can also run the previous example with `COMPOSE_PROJECT_NAME=e triton-compose stop`.