

Configure a Tomcat cluster with confd

CoreOS Meetup Munich 2016.03.03

Derk Münchhausen

Introduction

... Who is talking

... Working in a Zoo

... The real complexity

... What is the problem?

Configuration Services



Apache ZooKeeper™

VS



redis

Configuration Services

... from 10.000 feed personal view ...



	Apache ZooKeeper™	CONSUL	redis	etcd
Key Value Store	✓	✓	✓	✓
- Distributed / Quorum based	✓	✓	Master/Slave	✓
- Strongly consistent	✓	✓	✗	✓
Service Discovery		✓		✓
Cluster Coordination possible	✓	✓	✗	✓
Service Health Checking		✓		
Spring Cloud Support	✓	✓	✓	✓ Incubator
NETFLIX archaius configuration	✓	✓	?	✓
Service Templates		✓		
HTTP API	+	++	++	+++
Performance	+	+	+++	++
Simplicity	-	++	++	+++
Maturity	+++	++	+++	+
Reliability	+++	+++	+	+++
Implementation Language	Java	Go	C, Tcl	Go

confd

a lightweight configuration management tool

... checks periodically a key-value store, writes config files,
restarts service

Supports: etcd, consul, redis, zookeeper, ...

Implemented in Go

Uses Go Templates: .tmpl files

Config is TOML based: .toml files (better ini files)

Alternatives: consul templates – also Go based 😊

GitHub: <https://github.com/kelseyhightower/confd>

Coding Sample

use confd for Tomcat settings

- Xmx
- Xms
- Manager Page credentials
- jvmRoute

confd

Running Sample:

<https://github.com/muenchhausen/tomcat-confd>

Documentation:

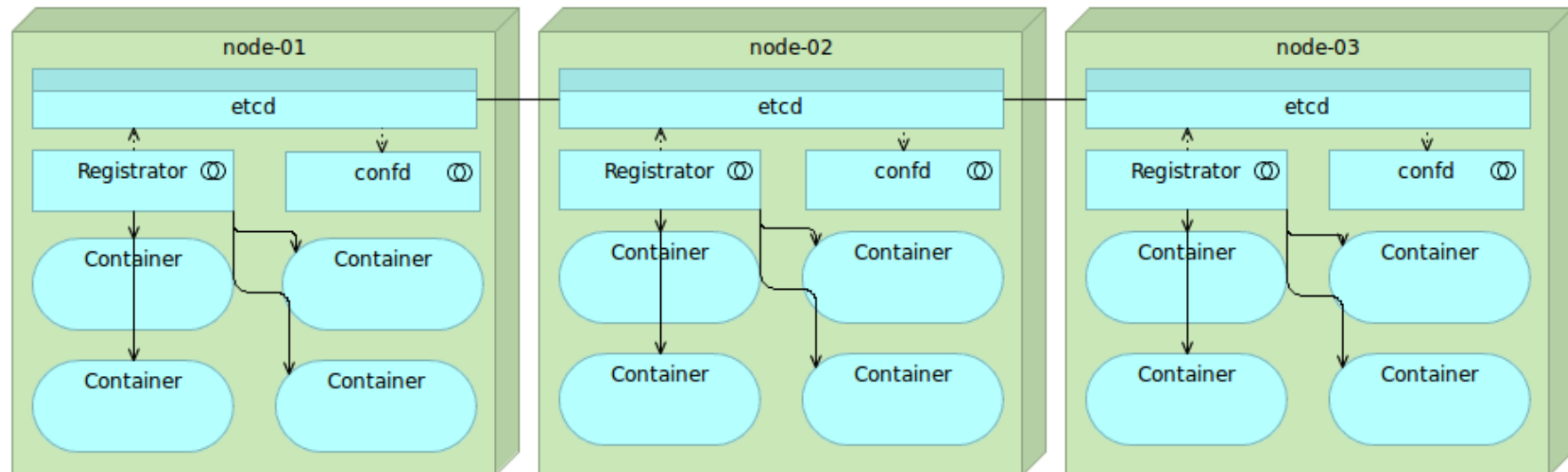
[https://github.com/kelseyhightower/confd/
blob/master/docs/tomcat-sample.md](https://github.com/kelseyhightower/confd/blob/master/docs/tomcat-sample.md)

What's next?

- Service Discovery 😊

Service Discovery

... with gliderlabs/registrator



Coding Sample

use confd for

Apache mod_proxy_ajp with balancer

Questions?

- confd getv (with default values) -> v0.12 😊
- confd for Windows?
- Service Health Checking?
- Comparision with Consul
- Cloud