

# SERVICE DISCOVERY IN PROGRESS

**0conf routing im eigenen RZ**

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# SERVICE DISCOVERY IN PROGRESS

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**ZINS**|PILOT

**CO**|MONEA

# SERVICE DISCOVERY IN PROGRESS

Wie alles begann...

1 Rechenzentrum

80% CentOS 6    20% CentOS 7

Puppet Deployment

# SERVICE DISCOVERY IN PROGRESS

März 2016

4 Apache 2.2 Server RR je 1 Public IP/Server

~ 40 Microservices

Shell script Deployment

statisches Routing

# SERVICE DISCOVERY IN PROGRESS

## Der Auftrag:

Service basiertes Routing für alle Domains

Inter Service routing

Manuelle Aufwände reduzieren

Sichere Webserver in der DMZ

## Rahmenbedingungen

Commitment auf CentOS

Ablösung von Puppet

Steuerung über Jenkins

# SERVICE DISCOVERY IN PROGRESS



Geschrieben in GO

0conf

SNI and Full End to End TLS

Traffic Shaping



# SERVICE DISCOVERY IN PROGRESS



Backend für Fabio

Service Registry

Key Value Store

DNS

# SERVICE DISCOVERY IN PROGRESS

Juni 2016 Halbzeit

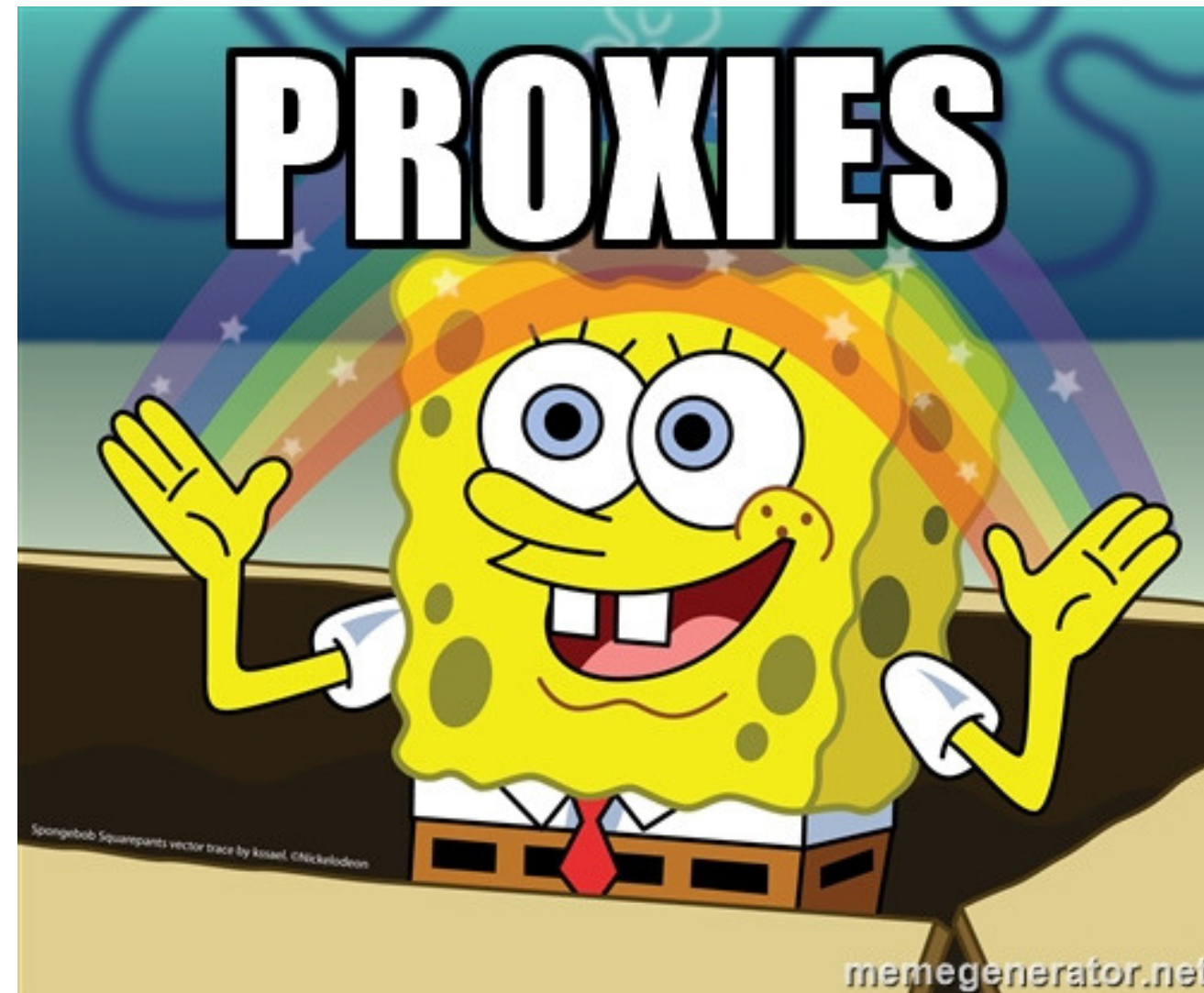
2 Rechenzentren

60 % CentOS 6    40 % CentOS 7

1 Public IP / TLS Cert

Systemd & Docker Deployment

# SERVICE DISCOVERY IN PROGRESS



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Juni 2016

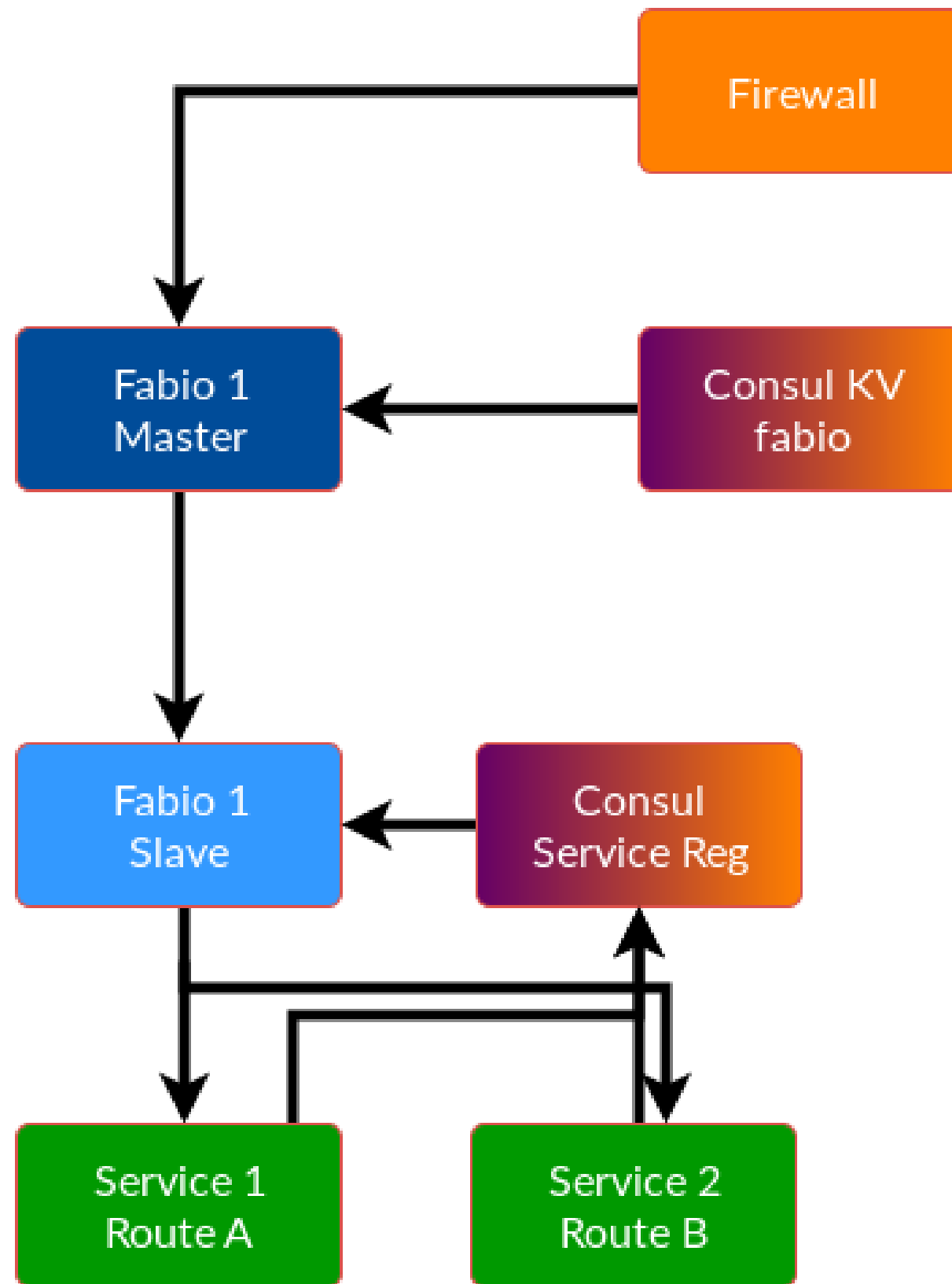
Fabio Master

```
route add fabio-Web-01 comonea.pro/ http://10.16.1.14:8081/ tags "a,compro"  
route add fabio-Web-02 comonea.pro/ http://10.16.1.15:8081/ tags "b,compro"
```

Fabio Slave

```
route add 01-compro comonea.pro/ http://localhost:80/  
route add 01-compro www.comonea.pro/ http://localhost:80/  
route add 01-compro www.comonea.pro/resources/pdf/ http://localhost:8009/
```

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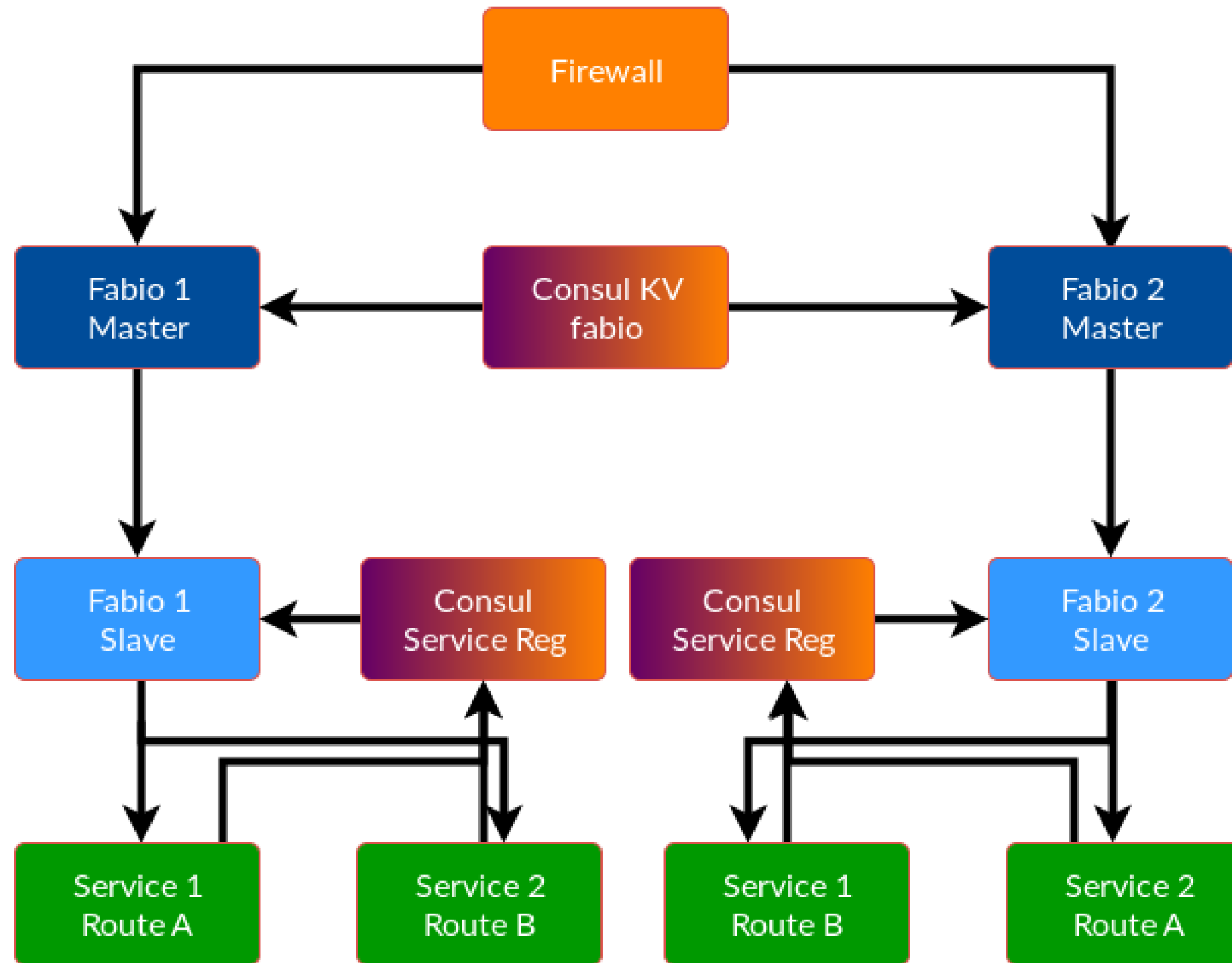
Dezember 2016

Fabio 1.3.5 und Consul Cluster

1 Public IP / DC bzw. Client Zertifikat

Registrierung der Services "on deploy"

# SERVICE DISCOVERY IN PROGRESS



# SERVICE DISCOVERY IN PROGRESS

wie es weiter geht...

2 - 4 Rechenzentren

60% CentOS7 40 % Legacy

Multi DC Failover und Routing

Let's encrypt integration

Consul DNS für inter Service routing



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<https://github.com/raben2/0conf-routing-demo>

<https://github.com/eBay/fabio>

<https://github.com/hashicorp/consul>

<https://www.deposit-solutions.com>