

# Patroni

PGConf.EU 2015  
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# Some Zalando numbers



200+ deployment units (WARs)

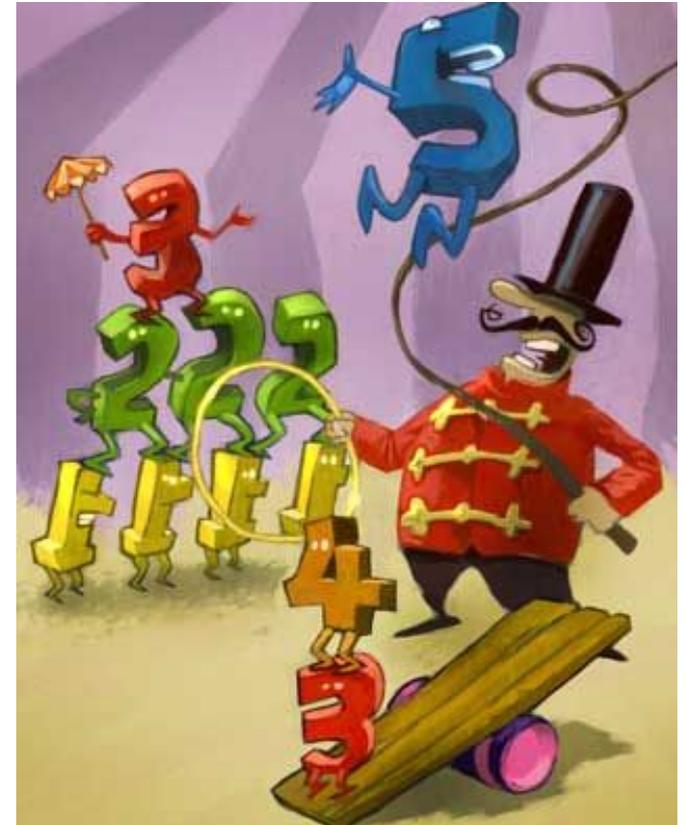
1300+ production instances

**120+ database master instances**

100+ different databases

700+ technologists

10 database engineers





# What problems do we have?

- We don't have automatic failover
- New clusters are managed by the teams
- These clusters will run on AWS
- We expect more instance failures on AWS
- Many new clusters will be created
- We don't like to be called, at night, or at all

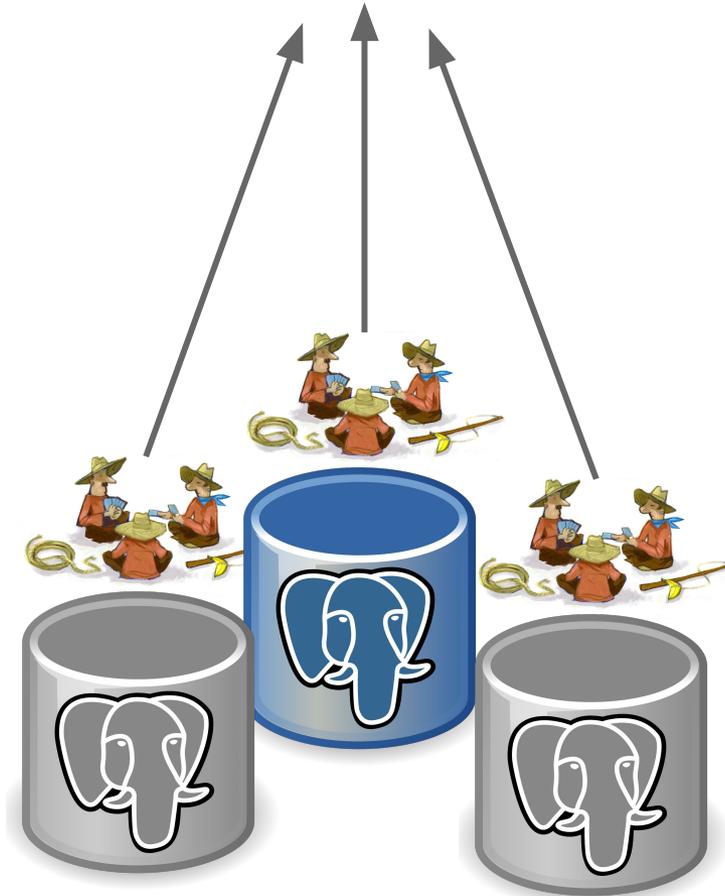


# Patroni

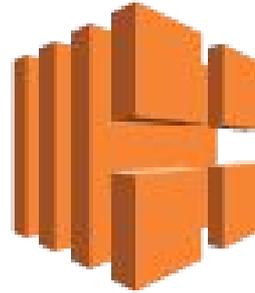


- Forked from Compose Governor
- manages a single PostgreSQL cluster
- requires etcd, Zookeeper, or Consul
- is aware of its peers
- has an api
  - healthcheck/status
  - management
- Is running production systems

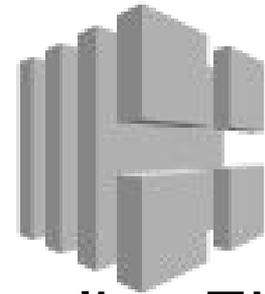
# Patroni in general



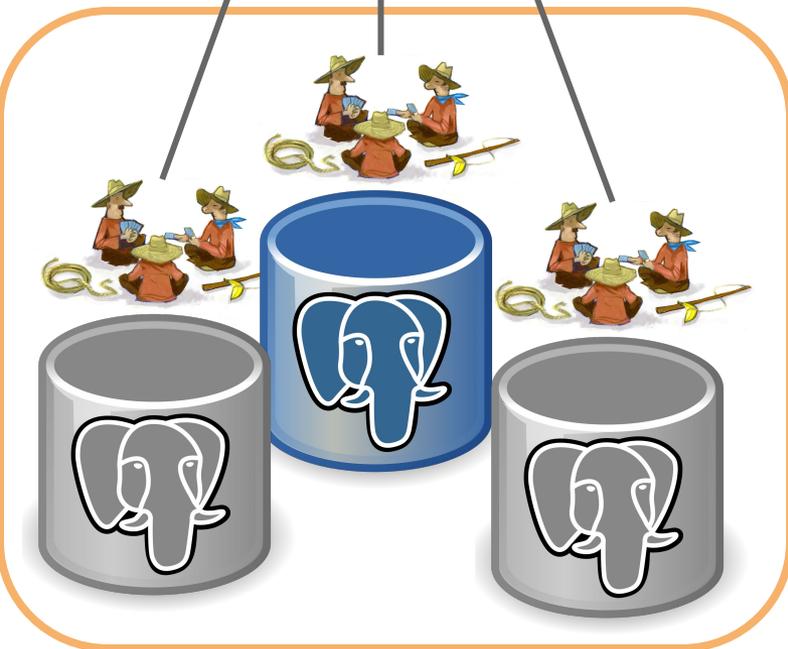
# Patroni on AWS (Spilo)



Master ELB  
prod.example.com



Replica ELB  
prod-replica.example.com



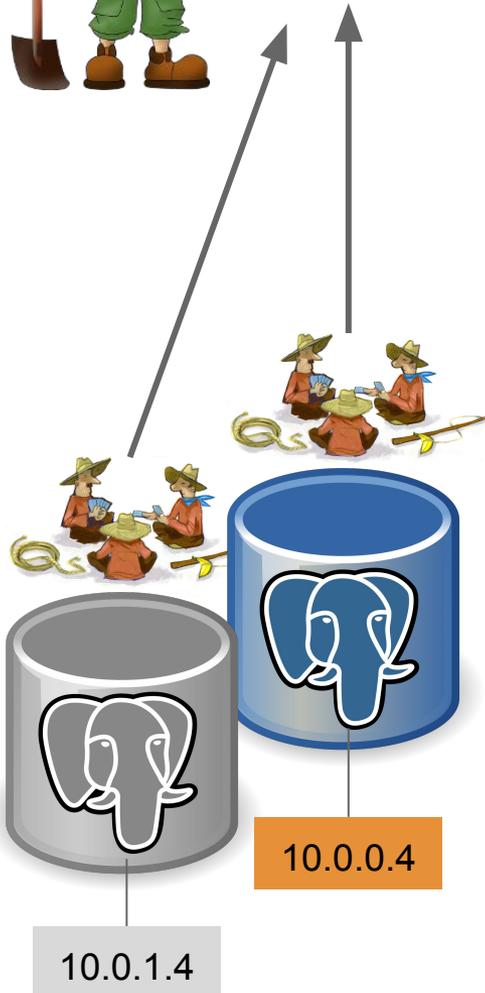
Auto Scaling Group

# Patroni in our Datacenter



## Zookeeper

- Patroni has a callbacks feature on some events a configured script can be run
- We use it to switch IP-address from master to slave and vice-versa



# Thanks

Tech Blog: [tech.zalando.com](http://tech.zalando.com)

GitHub: [github.com/zalando](https://github.com/zalando)

Patroni: [github.com/zalando/patroni](https://github.com/zalando/patroni)

Twitter: @ZalandoTech

Jobs: <http://tech.zalando.com/jobs>