Patroni
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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)

etcd

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

GitHub: github.com/zalando

Patroni: github.com/zalando/patroni

Twitter: @ZalandoTech

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