Talk about Percona XtraDB Cluster

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github.com/KKBOX/
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Percona XtraDB Cluster (PXC)

Oracle

MySQL

Codership

Galera Cluster

Percona

Patches

Pros

Synchronous Replication

No Replication Lag

Active-Active
Multi-Master

Cons

DELETE on no-PK table may break consistency

Perfer to InnoDB

Hardware Suggestion

Two same powerful servers for database

One dedicated small server for
backup & garbd

Software Suggestion

Debian (x86_64)

Setup

Install Percona PGP Key

```
# gpg \
  --keyserver hkp://keys.gnupg.net \
  --recv-keys 1C4CBDCDCD2EFD2A
```

Setup APT Repository

```
deb http://repo.percona.com/apt
squeeze main
deb-src http://repo.percona.com/apt
squeeze main
```

Update APT

```
# apt-get update
```

Install Percona XtraDB Cluster

```
# apt-get install \
  percona-xtradb-cluster-server-5.5
```

Install Percona Toolkit

```
# apt-get install percona-toolkit
```

Setup /etc/mysql/my.cnf

See GitHub

```
[mysqld_safe]
wsrep_cluster_address =
gcomm://10.1.1.1:4567,
gcomm://10.1.1.2:4567,
gcomm://10.1.1.3:4567,
gcomm://
```

```
[mysqld]
binlog_format = ROW
server_id = 12345
wsrep_cluster_name = XXX
wsrep_provider = /usr/lib64/libgalera_smm.so
wsrep_provider_options = "gcache.size=1G"
wsrep_slave_threads = 8
wsrep_sst_auth = "mysqlusername:mysqlpassword"
wsrep_sst_method = xtrabackup
```

Setup garbd

```
$ /usr/bin/garbd \
   -d \
   -a gcomm://10.1.1.1:4567 \
   -g XXX \
   -l /tmp/garbd-XXX.log
```

Live Demo ?

Any Question ?