

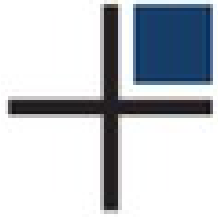


**2ndQuadrant**   
Professional PostgreSQL

# repmgr 3

Gianni Ciolli

5 4 3 2 ... MeetUs!  
Milan, 12-13 May 2015

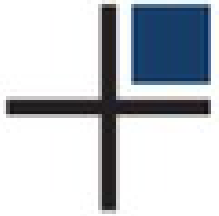


# Notice

The research leading to these results has received funding from the European Union's Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 318633.

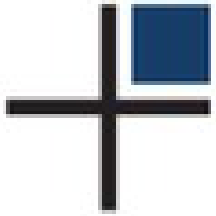
Seventh Framework Programme  
FP7/2007-2013

Communications Networks, Content & technology



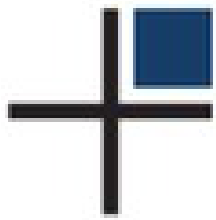
# Plan

- Install Barman
- Install repmgr 3
- Configure Barman and repmgr 3
- Demonstrate DR and HA



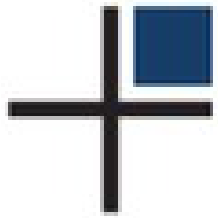
# Goals

- Disaster Recovery
- High Availability
  - Server-side: `repmgr`
  - Client-side: PgBouncer
- DR is aware of HA
  - Take backup from current primary



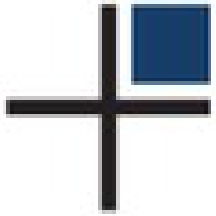
# Ingredients

- Hosts
  - one physical machine
  - two virtual machines
- Software
  - two fresh PostgreSQL
  - one fresh repmgr
  - one fresh Barman, two fresh PgBouncer
  - some fresh utilities (SSH, bash, tail, sed, ...)
- Configuration
  - one PostgreSQL Service File
  - three SSH Client Configuration Files



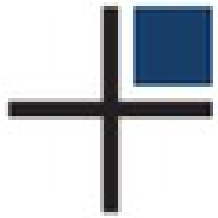
# repmgr

- Clusterware for PostgreSQL replication
- Open source (GPL)
- Current version: 3.0.1
  - Released on 26 Jan 2015
- <http://www.repmgr.org/>



# Some repmgr Features

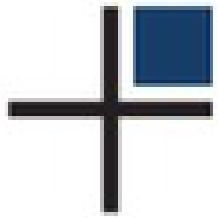
- Monitoring
- Automatic Failover
- Base Backup with rsync **or** pg\_basebackup
- Follow without restart
- Supports Cascading Replication
- Supports Replication Slots
- Event Logging and Commands



# Some repmgr Futures

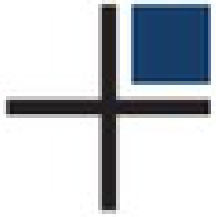
- Integration with Barman
- Integration with PgBouncer
- One-line, standby-driven switchover





# Barman & repmgr

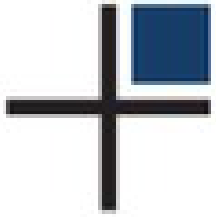
- Works right now!
- Different tools for different use cases
- Disaster Recovery: must have it!
- High Availability: nice to have
- Install Barman first, then add repmgr



**And now...**

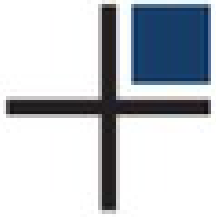
(switchover)

**DEMO**



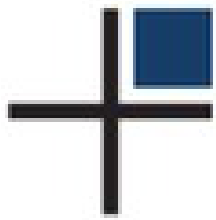
**And now...**

Questions?



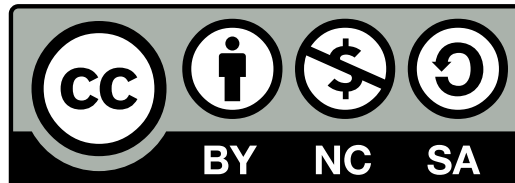
**And then...**

Thank you!



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