

# 2ndQuadrant

## Professional PostgreSQL



## Waiting for (the) BaRMan

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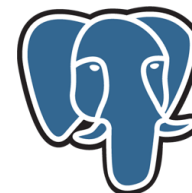
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**BaRMan**  
*backup & recovery manager  
for PostgreSQL*



PostgreSQL



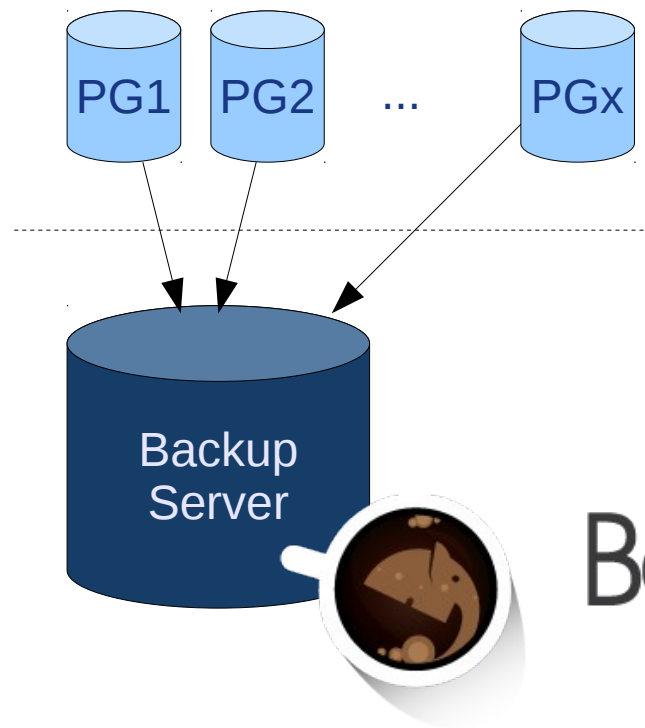
## BaRMan

- BaRMan stands for:
  - Backup
  - Recovery
  - Manager
- Disaster recovery tool for PostgreSQL
  - Physical backups
- Inspired by RMAN from Oracle
- Currently under development
  - Will be released as open-source soon
  - Written in Python





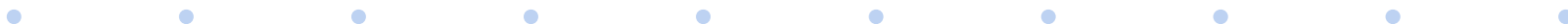
# Disaster recovery architecture





## Key aspects

- Remote backups
- Multiple PostgreSQL servers
- Multiple PostgreSQL versions (8.2 or higher)
- Multiple base backups per server
- Compression of WAL segments
- Retention policies for base backups and WALs
- Recovery (time or transaction ID)
- Datadir and tablespaces relocation for recovery
- Sandbox Recovery
- Convention over configuration





## Just to whet your appetite

### \$ barman server backup main-9.1

```
Starting backup for server main-9.1 in /var/lib/main-9.1/base/20111020T000532
Backup begin at xlog location: 0/7000020 (00000001000000000000000007, 00000020)
Backup end at xlog location: 0/70000A0 (00000001000000000000000007, 000000A0)
Backup completed
```

### \$ barman server list main-9.1

```
main-9.1 20111020T000532 - Thu Oct 20 00:05:37 2011 - Size: 32.0 MiB - WAL Size: 48.0 MiB
main-9.1 20111019T235921 - Wed Oct 19 23:59:24 2011 - Size: 17.0 MiB - WAL Size: 80.0 MiB
```

### \$ barman server recover main-9.1 20111019T235921 /tmp/sandbox-pgdata

```
Starting restore for server main-9.1 using backup 20111019T235921
Destination directory: /tmp/sandbox-pgdata
Copying the base backup.
Copying required wal segments.
Generating recovery.conf
Restore done
```



# Just to whet your appetite

```
$ barman backup show main-9.1 20111020T000532
```

```
Backup 20111020T000532:
```

```
Server Name      : main-9.1
```

```
PostgreSQL Version: 90101
```

```
PGDATA directory : /var/lib/9.1/master-node/data
```

```
Base backup information:
```

```
  Disk usage      : 48.0 MiB
```

```
  Timeline        : 1
```

```
  ...
```

```
  End XLOG        : 0/70000A0
```

```
WAL information:
```

```
  No of files     : 3
```

```
  Disk usage      : 48.0 MiB
```

```
  Last available  : 000000010000000000000000A
```

```
Catalog information:
```

```
  Previous Backup : 20111019T235921
```

```
  Next Backup     : - (this is the latest base backup)
```





## Stay tuned

- [www.pgbarman.org](http://www.pgbarman.org)
- We are looking for sponsors of new features such as remote recovery, base backups archival, Amazon S3 support, cascading backup and time machine
- Contact us at [info@2ndquadrant.it](mailto:info@2ndquadrant.it)
- Thanks to the rest of the development team:
  - Marco Nenciarini, Carlo Ascani and Giulio Calacoci

