

PostgreSQL
the world's most advanced open source database

The world's most advanced class on PostgreSQL... o quasi!

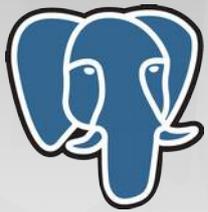
4 Marzo - 8 Aprile 2015

L'Aperitivo - 4 Marzo



GrappaLUG

Gruppo utenti GNU/Linux di Bassano del Grappa



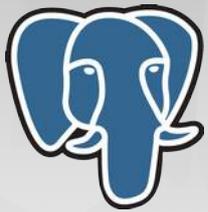
Il quasi è dovuto a...



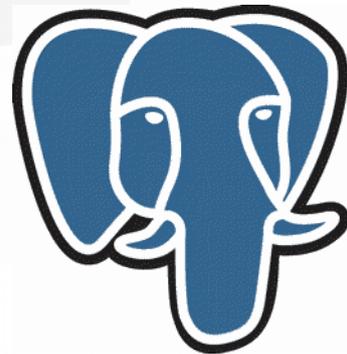
Denis Gasparin

Senior DBA and Web Developer

- Sviluppo di soluzioni software basate su PostgreSQL
- Analista e Database Administrator
- Contributor del driver PDO PostgreSQL per PHP
- Socio di IT-PUG



Il most advanced invece...

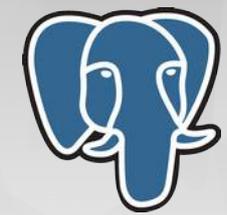


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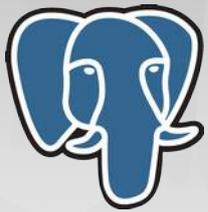
<http://www.itpug.org>

- Sono aperte le iscrizioni ai nuovi soci!
- Mailing list in italiano per supporto tecnico
- PgDay



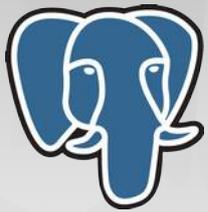
La ricetta del giorno!

- Ingredienti:
 - VirtualBox (o Vmware)
 - Vagrant
 - Debian Wheezy (o Jessie)
 - PostgreSQL



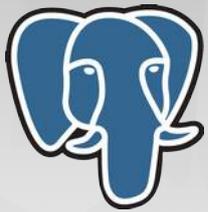
Installazione di Virtual BOX

- Sistema di virtualizzazione:
 - Astrazione di componenti hardware al fine di renderli disponibili ad un software di emulazione sotto forma virtuale
- Host:
 - É il sistema "Oste" del quale vengono astratte le risorse e che ospita la macchina virtuale
- Guest:
 - É l'ospite, cioè il sistema al quale vengono condivise le risorse virtuali
 - Disco, scheda di rete, RAM, CPU, Scheda video



Installazione di Vagrant 1/3

- Box:
 - Macchina virtuale con sistema operativo preinstallato
- Vagrant facilita la gestione di una box:
 - File di configurazione Vagrantfile
 - Avvio, spegnimento e distruzione di una box
 - Condivisione di file tra il sistema Host e Guest
 - Gestione del networking della macchina virtuale:
 - ◆ Accesso via SSH
 - ◆ Configurazione Port Forwarding



Installazione di Vagrant 2/3

```
Usage: vagrant [options] <command> [<args>]

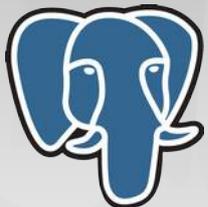
-v, --version          Print the version and exit.
-h, --help             Print this help.

Common commands:
  box                  manages boxes: installation, removal, etc.
  connect              connect to a remotely shared Vagrant environment
  destroy              stops and deletes all traces of the vagrant machine
  global-status        outputs status Vagrant environments for this user
  halt                 stops the vagrant machine
  help                 shows the help for a subcommand
  init                 initializes a new Vagrant environment by creating a Vagrantfile
  login                log in to HashiCorp's Atlas
  package              packages a running vagrant environment into a box
  plugin               manages plugins: install, uninstall, update, etc.
  provision            provisions the vagrant machine
  push                 deploys code in this environment to a configured destination
  rdp                  connects to machine via RDP
  reload               restarts vagrant machine, loads new Vagrantfile configuration
  resume               resume a suspended vagrant machine
  share                share your Vagrant environment with anyone in the world
  ssh                  connects to machine via SSH
  ssh-config           outputs OpenSSH valid configuration to connect to the machine
  status               outputs status of the vagrant machine
  suspend              suspends the machine
  up                   starts and provisions the vagrant environment
  version              prints current and latest Vagrant version

For help on any individual command run `vagrant COMMAND -h`

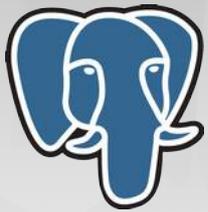
Additional subcommands are available, but are either more advanced
or not commonly used. To see all subcommands, run the command
`vagrant list-commands`.

C:\Vagrant\bin>
```



Installazione di Vagrant 3/3

- Aggiungiamo la box ffuenf/debian-7.8.0-amd64
- Vagrant init
- Vagrantfile: che cos'è?
 - Box
 - Network



Installazione di PostgreSQL

```
$ sudo su -
$ vi /etc/apt/sources.list.d/pgdg.list

# Inserire questa riga nel file
deb http://apt.postgresql.org/pub/repos/apt/ wheezy-pgdg main

$ curl https://www.postgresql.org/media/keys/ACCC4CF8.asc |apt-key add -

$ apt-get install postgresql-9.4
$ apt-get install postgresql-contrib-9.4

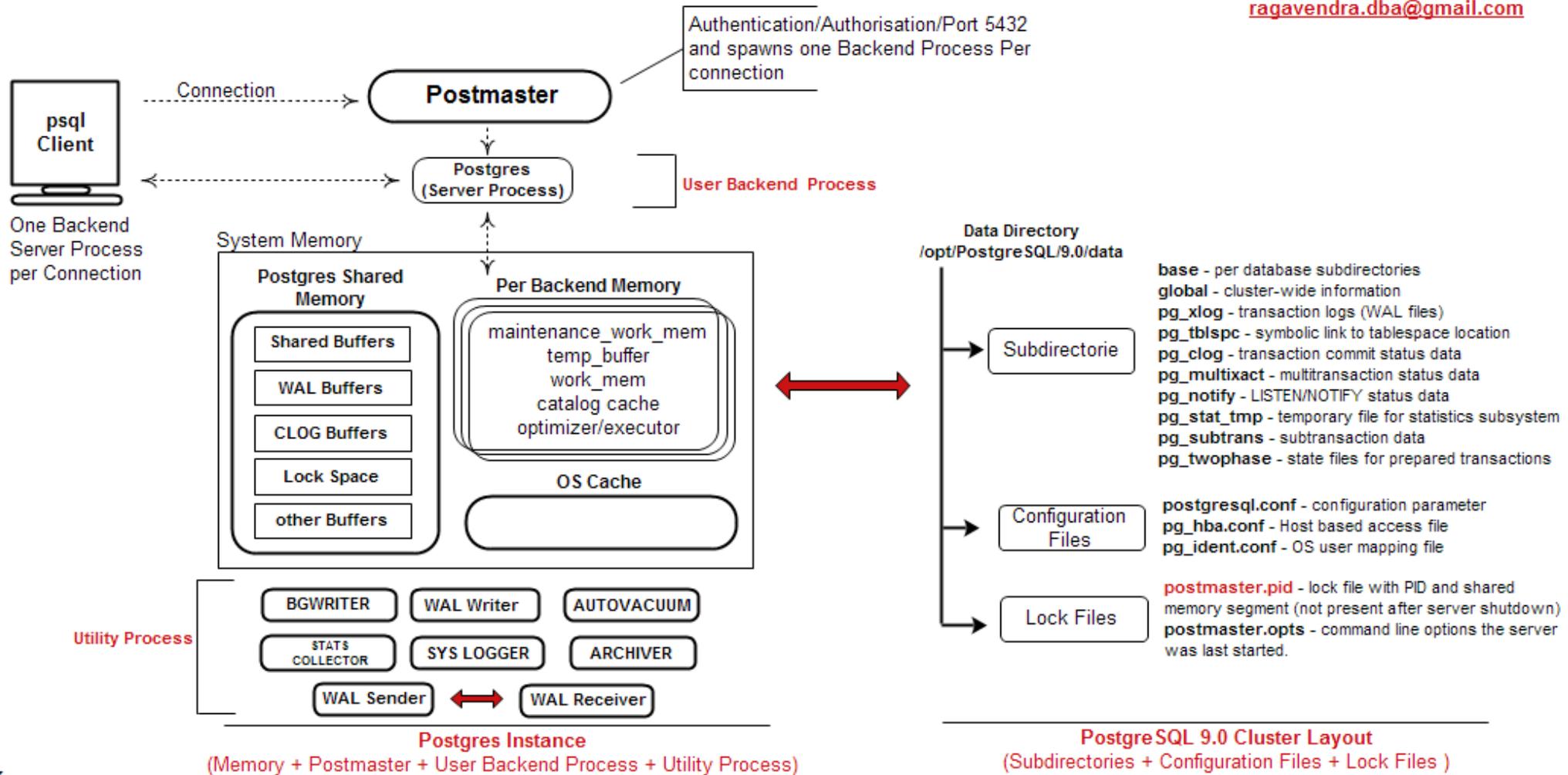
$ su -l postgres
$ psql -U postgres template1

Psq1 (9.4.1)
Digita "help" per avere un aiuto.

template1=#
```

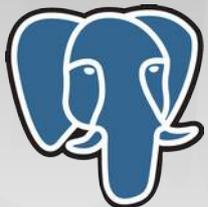
PostgreSQL 9.0 Architecture

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Keys

- ↔ Interdependent Processes
- ←- - - -> attached to
- - - -> one time hit
- ▭ backend process
- ▭ Process



Evviva PostgreSQL!

Grazie!



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