CODE79 SComm
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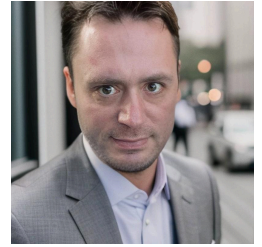VAT: BE.1012.901.615
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Gilles Fauvie

Linux sysadmin - Open Source Databases Administrator

PERSONALIA

- Full name : Gilles Constant Jean-Henri Fauvie
- Phone : +32 487 18 16 51 / Email : gilles@code79.com
- Nationality : Belgian
- Born : July 2nd 1979

EDUCATION

- DALIBO, Paris, France – Postgresql Database Administrator – 2012-2013 ;
- Solvay Business School, Brussels, Belgium - Entrepreneurship Program, 2010-2012 ;
- BULL/EVIDIAN, Brussels, Belgium, - Web Access Manager & Safekit, 2010 ;
- TIPTEL, Zaventem, Belgium, - VoIP, 2010 ;
- ULB, Brussels, Belgium, - Quality Manager ISO9000, 2002 ;
- HECE, Hainaut, Belgium, - Bachelor in Computing Technology, 2001 ;
- I.N.D, Hainaut, Belgium, - High school diploma in Sciences/Mathematics, 1998 ;

KEY STRENGTHS

- **Extensive Experience and Holistic Vision**: With over 20 years in the IT industry, I've worked across numerous areas, enabling me to understand situations and challenges from multiple perspectives.
- **Passion for Open Source**: A long-time advocate of open source, I actively participate in events like FOSDEM, keeping me informed about the latest innovations and the most relevant products on the market.
- **Teamwork and Knowledge Sharing**: I enjoy collaborating within teams and sharing my expertise, contributing to collective growth and continuous improvement.
- **Curiosity and Continuous Learning**: I am always eager to learn new things, constantly seeking fresh challenges to further enhance my skills and stay at the forefront of technology.

RELATED EXPERIENCE

- DBA/Linux Sysadmin at EUROCLEAR S.A, Bruxelles, Belgium, 2023/09 – 2025/02
  - PostgreSQL optimization / Backup / HA / Disaster Recovery / Load Balancing
  - Ansible automation for PostgreSQL deployment
  - Training sessions and documentation
  - Management servers (pgadmin, pgbadger, POWA)
- DBA/Linux Sysadmin at TUC RAIL, Bruxelles, Belgium, 2022/10 – 2023/06
  - PostgreSQL optimization / Backup / HA / Disaster Recovery
  - Linux RHEL administrator
  - Monitoring
  - Ansible automation, syslog servers
- DBA at NETHIS, Charleroi, Belgium, 2022/06 – 2022/09
  - PostgreSQL optimization / Backup / HA / Disaster Recovery
- Linux sysadmin, DBA at IPEX, Tubize, Belgium, 2021/10 – 2022/09
  - Linux System Engineer (Debian)
  - MySQL setup / Backup / Disaster Recovery

- ○ ElasticSearch DBA
- ○ Monitoring, automation
- ○ Docker
- ● DBA at Interieur Binnenland Zaken (IBZ – Direction Générale Institution et Population), Brussels, Belgium, 2005/09 – 2020/11 – Contact : Mr Eric Roelandt, email : eric.roelandt@rrn.fgov.be) – http://www.ibz.be
  - ○ Linux System Engineer (RHEL/UBUNTU/DEBIAN) ;
  - ○ PostgreSQL Monitoring / Disaster recovery / Set up "homemade" software for full backup and Point In Time Recovery (PITR) to use NetBackup (not compatible with Barman or Pitrery);
  - ○ Set up all the PostgreSQL dev environment to migrate from GCOS mainframe to LiberTP (product developed by Atos Phoenix based on JBOSS to replace mainframe);
  - ○ Set up monitoring system: Munin and Nagios Enterprise Edition;
  - ○ Set up a script for daily report to identify worst SQL request and find a way to fix it;
  - ○ Set up a "degraded mode": 2 PostgreSQL servers linked by FDW. Goal: to get the production up as soon as possible in case of disaster. PostgreSQL server 1: only text data (80% of production is up in this case), PostgreSQL server 2: binary data (photos, signatures of eId cards), (100% of production is up in this case);
  - ○ Developing functions (PL/PGSQL and PL/Python) to verify data consistency and to be compatible with the mainframe GCOS;
  - ○ Set up PostgreSQL partioning;
  - ○ Set up high availability using Virtual Ip Address and SAN (2 sites);
  - ○ Assistance to the developers for SQL queries;
  - ○ Creating Munin probe dedicated for PostgreSQL (https://raw.githubusercontent.com/munin-monitoring/contrib/master/plugins/postgresql/postgres_tuplesratio_);
  - ○ Managing all the PostgreSQL environments (dev, preprod, testing for final users, prod);
  - ○ Assistance for architecture and design of the PostgreSQL database;
  - ○ Migrating production data from a main version of PostgreSQL to a new one;
  - ○ Set up a frontend LDAP with backend PostgreSQL;
  - ○ Set up a Foreign Data Wrapper PostgreSQL <-> MongoDB;
  - ○ Set up slony replication, Wal replication, streaming replication and logical replication;
  - ○ Set up a script bash to get the last transaction in security even in case of crash disk;
  - ○ MongoDB cluster with high availability to save log messages (Syslog) and setup a bootstrap interface to have a way to get information "user-friendly";
  - ○ Optimizing OS, memories, filesystems;
  - ○ Set up pooler (PG-POOL and PgBouncer);
  - ○ Providing training sessions;
  - ○ Link PostgreSQL to Web Access Manager (for eId authentication);
  - ○ Set up triggers for data consistenty;
- ● Mondial Relay, Paris, France, 2018/01 – 2019/08 – Contact: Pierre Yves ROUZAUD, pyrouzaud@mondialrelay.fr – http://www.mondialrelay.fr
  - ○ Set up high-availability (logical replication);
  - ○ Set up backup (Barman and pg_receivexlog);
  - ○ Disaster recovery;
  - ○ PL/PGSQL;
  - ○ Datawarehouse;
  - ○ Set up triggers for data consistenty;
- ● Ordre des barreaux francophones de Belgique, Brussels, Belgium, 2018 – Contact : Mr Philippe Dhondt, ph.informatique@avocats.be – http://www.avocats.be
  - ○ Set up a high availability cluster;
  - ○ Migration of 9 databases (from Oracle, MsSql) to one PostgreSQL cluster;
- ● INTEGER SPRL (OPENDBTEAM.com), Louvain-La-Neuve, Belgium and San Francisco (CA, USA), 2008 – 2019/08
  - ○ Manager of a team of 5 people
  - ○ Founder & Open Source Passionate
  - ○ Linux system engineer/architect @ Belgian Government;
  - ○ Setup VPN for ATM (Allied Irish Bank (Benin)) ;
  - ○ Daily Maintenance (≈ 40 servers) under VMWARE, updates, monitoring (Nagios enterprise, Zabbix, Munin), design, 3rd level support, managing X.509 Certificates,

building bash and python scripts, building syslog servers, VPN, managing Web Access Manager (Apache Proxy with X.509 certificates authentication), …
- ○ PostgreSQL DBA and MongoDB DBA at Mondial Relay (Paris). Implementing disaster recovery solution, monitoring, high availability, tuning, performance optimization, training;
- ○ PostgreSQL DBA and MongoDB DBA, Linux system engineer at "Gaz de France" (Paris). Implementing disaster recovery solution, monitoring, high availability, tuning, performance optimization, training;
- ○ Setup Linux authentication using OpenLDAP;
- ○ Debugging (tcpdump) TCPIP issues (using wireshark);
- ○ Managing DNS;
- ○ Managing Apache (reverse proxy);
- ○ Moving Mainframe GCOS to LiberTP (linux and JBOSS);
- ○ Database Administrator (PostgreSQL) @ Belgian Government and BULL Belgium ;
- ○ Migrating a IDS2 (GCOS) database to PostgreSQL. Implementing disaster recovery solution, monitoring, high availability, tuning, performance optimization, training, 3rd level support, building a LDAP frontend, …
- ○ JAVA (J2EE) Developer @ Belgian Government, BULL Belgium and City of Charleroi ;
- ○ On-call 24/7;
- ● GOA SPRL, Brussels, Belgium, 2003 - 2008
  - ○ Founder ;
  - ○ PHP/C/Pyhton Developer ;
  - ○ Building websites like http://dreamaway-holidays.com, http://www.cepi.eu, http://www.fiwap.be, ... ;
  - ○ Linux system engineer/architect ;
  - ○ Design and daily maintenance of mails servers, DNS servers, web servers, implementing our hosting infrastructure ;
  - ○ VB 6/.net developer @ VOO ;
- ● VOO, Brussels, Belgium, 2002 – 2003
  - ○ Linux system engineer: Daily maintenance of DNS servers, web servers, dhcp servers, monitoring (snmp), support for corporate customers, building bash scripts, C codding, …
  - ○ Setup of residential ISP Brutélé

More projects available on demand: EVEA GROUP FRANCE, City of Charleroi, AGC EUROPE, British Telecom, ARSIA/AFSCA, …

SKILLS

- ● General :
  - ○ Ability to quickly learn and understand from self-study or analysis;
  - ○ Good understanding of project management and change management;
  - ○ Team player – listen, share, cooperate and learn together as a team;
  - ○ IT knowledge : Linux (RHEL, Ubuntu, Gentoo, Fedora, Tails, ...), Open Source Integration, Python, TCP/IP, DNS, DHCP, Apache, Iptables, Nagios, Zabbix, Munin, Bash, FTP, Syslog, OpenVPN, TCPDUMP, NMAP, CARP, SamWEB (Evidian), Safekit (Evidian), PHP, C, KVM, ESX, PEN, X.509 Certificate, NTP, OpenLDAP, Network, Java J2EE.
  - ○ PostgreSQL: High availability, backup, monitoring, audit (PgBadger, …), pgpool, pgbouncer, pgbadger, POWA, pg_receivexlog, system tables, replication, monitoring, functions (PL/PGSQL, PL/Python), optimization, partitioning, triggers, alive/dead tuples, ACID, views, ;
  - ○ MongoDB: clustering, sharding, backup, disaster recovery;
  - ○ IA (Setup of local LLM);

LANGUAGES

- ● French : native
- ● English : gook working knowledge spoken and written
- ● Dutch : basic knowledge spoken and written