

Bernard ROSSET
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GNU/Linux systems engineer (High Availability)

Conferences

”The LAMP Just Died: Follow the Light - NGINX¹ and PHP-FPM” presentation during the [nginx.conf 2014 user conference](#)

San Francisco, October 20th-22nd, 2014

I hosted a talk dealing with technical aspects of establishing a nginx front-end with one(several) PHP-FPM backend(s). I aimed at showing the easiness of all installation/configuration/maintenance phases.

The main purpose of this talk was to encourage people switching over from Apache to nginx: more than being another FLOSS² product, nginx also offers greater overall performance and offers connections scalability.

Experience

2019 - *Ongoing*

GNU/Linux systems engineering & DevOps

Automated provisioning & deployment, Metrics & logs collection, Cloud, Good practice dissemination

Ansible, Terraform, Docker, Kubernetes, Prometheus, ElasticSearch, HAProxy

CDiscount, Bordeaux, France

2017 - 2018

GNU/Linux systems engineering & DevOps

Operational monitoring, Infrastructure improvements, Automation

nginx, PHP-FPM, Varnish, bash, Ansible, PXE

Bordeaux agency, Waycom, Bordeaux, France

2014 - 2017

Service delivery/Expertise Systems administration

Operational monitoring, Technological expertise, Infrastructure improvements, Tools

nginx, PHP-FPM, Varnish, bash, Redis, SolR

Web Hosting Business Unit, Worldline, Seclin, France

June to December, 2012

Final internship 6 months

Low-level tracing of binaries & SCADA threats

Assembly, Dynamic Binary Instrumentation, SCADA

SecSI lab, Ecole Polytechnique de Montréal, Québec, Canada

May to August, 2010

Internship 3 months

Development of an internal centralized log recording tool

Web application, Unix processes driving

NDS France, Issy-les-Moulineaux

¹engine-x

²Free, Libre & Open-Source Software

Education

- September, 2011 to December, 2011 **Student exchange program - Computer engineering**
Ecole Polytechnique de Montreal
- September, 2006 to December, 2012 **Computer engineering**
Polytech'Paris-Sud (old IFIPS)

Languages

French native
English (TOEIC 955/990)

Projects

Configuration & maintenance of a dedicated server

Ongoing
Devuan (Debian), BIND9, nginx, Redis, Postfix, Munin
*Maintenance of my personal server for a total control over my online hosting & experimentation (installation/configuration/maintenance) based on **Devuan** (Debian fork).*

Improvement & maintenance of reverse proxy platform intended for partners

Since December, 2019
Ansible, Terraform, HAProxy, Azure

Azure components logs collection via Event Hub towards internal systems

January, 2020 - February, 2020
Docker, Kubernetes, Fluentd, Azure, Jenkins

Open-source project contribution & Public **OpenTTD** server instances provisioning

Since December, 2018, ongoing instances
Docker & tools, Git, C/C++, Fail2Ban

Data extraction & automatized formatting, MediaWiki contribution/programming

August-December, 2019
Docker, PHP, Git, MediaWiki (template programming, **Cargo tables**, Lue (MediaWiki module programming), **MBINCompiler**, **PSArcTool**)

Automating machines provisioning (PoC)

December, 2017 - April, 2018
PXE, microservices architecture, Ansible, nginx, Redis, PHP, GitLab

SWAT 4 Master Server development

August-September, 2014
C, libevent, High Availability

Skills

- **System**
 - **Operating systems:** GNU/Linux (preference Devuan, Debian)
 - **Containers:** Docker, Kubernetes
 - **Configuration management:** Git, Ansible, Salt (rudiments)
 - **Continuous Deployment:** Jenkins
 - **Cloud provisioning:** Terraform
 - **Cache:** Redis, Varnish
 - **Servers**
 - * **Web:** nginx, Apache, HAProxy
 - * **Databases**
 - **Key-Value:** Redis
 - **Relational:** MySQL (+ variants), PostgreSQL (rudiments)
 - **Time-series:** ElasticSearch, Prometheus
 - * **DNS:** BIND9
 - **Monitoring:** Fail2Ban, Munin, Prometheus + Grafana, Zabbix (rudiments)
 - **Scripts:** PHP, Python (rudiments)
- **Web languages:** XHTML/CSS/JavaScript - Compliance to W3C standards, PHP
- **Publishing:** LibreOffice, L^AT_EX

Interests

Contribution :

OpenTTD : FLOSS reimplementation of Transport Tycoon Deluxe (Chris Sawyer)

Devuan : Debian fork, aiming to ensure **init freedom**

Voluntary work:

August, 2006 to 2010 : Helping disabled people during a pilgrimage

Hobbies:

2012 - 2014: Learning about the Myers-Briggs Type Indicator psychology model & active in the community of a board dedicated to the subject

July, 2012 to October, 2013: Member of a **dragon boat** team

February, 2007 to March, 2012: Data-Processing Manager in the virtual airlines **Littoral Airlines** (Website maintenance, Support amongst pilots, Upgrades through new projects)

19 November, 2009: Organizer of the 'Forum Ingénieurs Paris-Sud' event, the University's jobs fair

December, 2009 to January, 2010: Semifinals of the inter-school company management WinStrat

2008 to 2010: Treasurer of **CineFIPS**, the school's audiovisual and cultural association