

# Thibaut Lapierre

Born on december the 14th, 1991 in Perpignan, France

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OpenSource being at the center of my professional projects, my interests tend to be about the scalability of GNU/Linux systems, databases and services.



## Professional Experience

### OpenStack Engineer at DIGIMIND (Grenoble, FR)

July 2013 – Today

Implementation of an OpenStack private Cloud for development, pre-production and QA environments,

- Nodes deployments with Ansible and Python-Fabric
- Cloud orchestration with Heat
- High Availability with HAproxy and monitoring with Nagios (POC with Ceilometer, but not yet in production)
- Integration with Jenkins CI

Installation and maintenance of a distributed object storage system with Ceph

Deployment automatised of TomCat (Jboss) services with Docker and JenkinsCI

Management of an AWS EC2 cluster (~480 instances)

Python development with Amazon AWS API (boto), the OpenStack APIs, Docker API, Request HTTP Lib, and other in order to manage and autoscale the infrastructure

Implementation of a Nginx Web Application Firewall (Naxsis) and Logstash + Elasticsearch DB (in order to centralize and graph the production logs with Kibana)

We work with the Agile Scrum management method

### University Teacher at SUPINFO (Marseille, FR)

2012 – 2013

Teaching Unix-like systems functioning and DataCenter management to the 1st to 3rd year students (iSCSI, Puppet, HeartBeat, DRBD, etc).

Computer Architecture courses for the 1st year (ASM8086 Low level programming, combinational logic, sequential logic and Binary Mathematics)

VoIP courses (Asterisk) for the 3rd year. (All the students were at the French tech school Supinfo)

### Systems and Network administrator at TrustTelecom (Aix-en-Provence, FR)

November 2012 – May 2013

Project management: Development of a Game Server rental platform in Python and native PHP.

Management and monitoring of httpd servers for mutualized hosting.

### Telesales operator at Aviso (Lyon)

September – November 2012

### Timekeeping operator at FQSC (Montréal, Canada)

March – June 2012

Designing a timekeeping comprehensive system for the Cycling Federation of Quebec (MYLAPS + Sql) and administration "in the field" during the cycling competition.

### Supervisor and teacher for the PenContest (Montréal, Canada)

November 2011 – June 2012

PenContest is a Capture The Flag contest involving hacklabs and Montreal Universities. I had to manage a team of 4 systems engineers in the implementation and setting of infrastructures and events.

My second task was preparing and dispensing Linux courses about the contest (4 hours per week).

### System administrator at Lagrange Patrimoine Conseil, Internship (Lyon)

August – October 2011

Administration, virtualization and monitoring of Linux, BSD and Windows servers. Developing bash scripts and use of Xen and ESXi for a proof of concept.

### Arobases, internship (Lyon)

July – October 2010

PHP development and commercialization for their e-commerce solution: vendre-en-ligne.com.

### Self-Employment (Lyon)

Décember 2009 – January 2012

Network infrastructure installation management for SMEs (OpenLDAP, ActiveDirectory, Samba, OpenERP)

### System administrator intern at Lokris (Saint-Bonnet de Mure)

June – November 2008

Administration of BSD and Suse servers (with Apache, Dovecot, Sendmail and OpenVPN) and network wiring.

## Personal Projects

**OctOpenStack:** Provides an OpenStack platform deployed in Docker containers and who provides and manages Docker containers as cloud instances.

<https://github.com/Epheo/octopenstack> (In development)

**Skills**

**Cloud and virtualisation:** OpenStack, Docker, CoreOS, LXC, Amazon Web Services, Qemu/KVM, libvirt

**Data storage and analysis:** Ceph, ElasticSearch, Kibana, ZeroMQ, Redis, Solr, logstash, SQL: (MySQL, MariaDB/Galera), Python-TextBlob

**Systems and networks:** High Availability, DRBD, iSCSI, Pacemaker, SELinux, Squid, HAproxy, OpenVSwitch

**Servers management:** Ansible, Puppet, Python Fabric, Jenkins

**Development languages:** Python (Fabric, OpenStack API, Docker API, Django), Shell Scripting, x86 Assembleur, Object Oriented.

<b>Training</b>	LUCENE / SOLR Professional training seminar (Digimind)	September 2014
	ESI SUPINFO	2009 - 2014
	Master in Computer Engineering Bachelor in Computer Engineering (Montreal, Canada)	
	SCT CERTIFICATION (Supinfo Certified Trainer) Training courses to become a teacher.	April 2011
	ITIL Training seminar by Dr. Mohamed Benkhalifa (Montreal, Canada) STI Electrical Engineering high school diploma at Lycée La Martinière Montplaisir (Lyon)	May 2012 2009

**Personal Interests**

- Computer history, NASDAQ
- Skiing: Competition during 13 years at the French and International Federations