

Thibaut Lapierre



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With Open Source as main belief I currently handle the technical part of different Cloud Computing platforms projects for Governments and Telco at Hewlett Packard Enterprise.

I have a solid background in large scale Computing, Networking and Storage as well as in Software Development. I've previously been University teacher and developed shaddock (a Container based architecture design and deployment tool).

Professional experience

Solutions Engineer

Hewlett-Packard

Helion OpenStack Professional Services

November 2014 – Present | Galway, Ireland



As part of the worldwide OpenStack Professional Services team I lead the Technical aspect of several Cloud Computing platforms projects for Governments and Telco, taking part in the different phases of the projects including software development, pre-sales and customer delivery phases.

We help worldwide customers to implement OpenStack and reach a production state by:

- Designing the architectures of cloud platforms implementations.
- Leading the development of specific customer's requirements and use cases.
- Solving implementation and software problems on critical issues.
- Architecture and integration of specific OpenStack platforms for customers.

I also drive workshops and trainings around storage, backup, networking and general cloud computing architecture and developed the Distributed Communications Network (DCN) / Alcatel Nuage integration for Helion OpenStack.

Software System Engineer

Digimind

May 2013 – November 2014 (1 year 7 months) | Grenoble, France



My main goal was to scale-out the infrastructure with OpenSource technologies like OpenStack, Ceph, Docker, HAproxy and others.

- Implementation of an OpenStack private Cloud to manage the development, pre-production and QA environments.
- Integration and (close to no) maintenance of a distributed storage system with Ceph.
- Python development with the Amazon Boto API in order to manage and autoscale a ~480 Nodes frontend cluster on specific use cases.
- Integration of an Nginx Web Application Firewall (Naxsis) and return metrics in Kibana.

University Teacher

SUPINFO

September 2012 – September 2013 | France



Part time teacher of Unix systems functioning and Data Center management for the 1st to 3rd year students.

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

And VoIP (Asterisk) to the 3rd year students.

Professional experience

Software System Engineer

TrustTelecom

September 2012 – March 2013 (7 months) | Marseille, France

Development and exploitation of a Game Server rental platform. (Python / PHP)

System administration of a mutualized hosting platform. (mainly Bash)

trusttelecom

Timekeeping operator

Fédération de Cyclisme du Québec

January 2012 – July 2012 (7 months) | Montreal, QC, Canada



As a timekeeping operator for the Cycling Federation of Quebec I've design a timekeeping system using Python and the MyLaps solution to track the times during the races and analyze them in order to provide detailed dashboards.

I also had to track the times during the races all around the Quebec.

Personal projects

Shaddock

Shaddock is a project we wrote to provides a platform deployed in containers following a predefined yaml template (like an OpenStack infrastructure)

<https://github.com/epheo/shaddock>

Montreal InterUniversity Pencontest

Head of Unix pole and teacher

September 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).

Technologies

Computing / Virtualisation libvirt, OpenStack, Docker, LXC, AmazonWS, Qemu/KVM

Networking / NFV Alcatel Nuage, OpenFlow, Neutron, OpenVSwitch,

Storage / Data Ceph, Swift, VSA, 3PAR, ElasticSearch, Kibana, ZeroMQ, Redis, Solr, SQL, Python-TextBlob, Panda

Orchestration Ansible, Python Fabric, Jenkins

Development Python, OpenStack APIs, JavaScript (node), PHP, C++, x86 Assembly, Git

Trainings and diploma

ESI SUPINFO

2009 - 2014

Master in Computer Engineering (Lyon, FR | Grenoble, FR)

Bachelor in Computer Engineering (Lyon, FR | Montreal, CA | Marseille, FR)

FOSS Certificate in OpenStack Software

EXIN, License 5410758.20420649

LUCENE / SOLR Professional training seminar (Digimind)

September 2014

SCT CERTIFICATION (Supinfo Certified Trainer)

April 2011

ITIL Training seminar by Dr. Mohamed Benkhalifa (Montreal, Canada)

May 2012

STI Electrical Engineering high school diploma at Lycée La Martinière Montplaisir (Lyon)

2009

**Previous
experiences
and
internships**

[internship] System Administrator at LPC (August – October 2011| Lyon, FR)
Virtualization and monitoring of Linux, BSD and Windows servers. Developing bash scripts and POC with Xen and ESXi.

[internship] Web Developer at Arobases (July – October 2010 | Lyon, FR)
PHP development and commercialization for their e-commerce solution: vendre-en-ligne.com.

Sales Operator at Aviso (September – November 2012 | Lyon, FR)

Self-Employment (Décember 2009 – January 2012 | Lyon, FR)
Web development, network and system administration for SME.

[internship] System Administrator at Lokris (June – November 2008 | Saint-Bonnet de Mure, FR)
Exploitation of FreeBSD and Linux Suse servers (Apache, Dovecot, Sendmail, OpenVPN).
Network wiring.

**Personal
interests**

Scalability, Scales, Astronomy
Skiing (13 years competition at the French and European Federations)