Thibaut Lapierre

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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

Cloud Software Engineer

Hewlett-Packard

November 2014 – Present | Galway, Ireland

Backend Engineer

DIGIMIND

July 2013 – November 2014 (1 year 5 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 for development, pre-production and QA environments: (Nodes deployments with Ansible and Python-Fabric, orchestration using Heat, integration with Jenkins CI)
- Integration and maintenance of a distributed block and object storage system with Ceph
- Deployment automatisation 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 worked using the Agile Scrum managment method

University Teacher

SUPINFO

November 2012 – July 2013 (9 months) | Marseille Area, France

As a teacher for an International tech university I had the opportunity to thought:

- 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.

System and Network administrator

TrustTelecom

November 2012 – March 2013 (5 months) | Marseille, France

Project management: From scratch development of a Game Server rental platform in Python and native PHP.
Managment and monitoring of httpd servers for mutualized hosting.

Professional experience

Timekeeping operator

Fédération de Cyclisme du Québec

March 2012 – June 2012 (4 months) | Montreal, QC, Canada

- Design of a timekeeping comprehensive system for the Cycling Federation of Quebec using Python and the MyLaps solution to track the times, and a relational SQL database to store and analyze them.

- Timekeeping operator during the cycling competition events.

Personal projects

Panama

Panama is a Docker container orchestrator I've develop in order to provides a (maybe) scalable, ready to use and easy to deploy OpenStack platform.

https://github.com/epheo/panama

Head of Unix pole at Pencontest   (November 2011 – July 2012 | Montreal, QC, Canada)

The PenContest is a "Capture The Flag" security contest involving hacklabs and Montreal Universities. I had to manage a team of 4 systems engineers in order to implement a realistic company environment and predefined security issues.

My second task was to prepare and dispense Linux courses about basic Unix security (4h / week).

Skills

Cloud and virtualisation: OpenStack, Docker, CoreOS, LXC, AmazonWS, Qemu/KVM, libvirt

Data storage and analysis: Ceph, ElasticSearch, Kibana, ZeroMQ, Redis, Solr, SQL, Python-TextBlob, Panda,

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

Servers managment: Ansible, Python Fabric, Jenkins

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

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)	
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

System administrator intern at Lagrange   (August – October 2011| Lyon, FR)

Virtualization and monitoring of Linux, BSD and Windows servers. Developing bash scripts and POC with Xen and ESXi.

Web Development internship at Arobases   (July – October 2010 | Lyon, FR)

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

Self-Employment   (Décember 2009 – January 2012 | Lyon, FR)

Web development, network and system administration for SME.

System administrator intern at Lokris   (June – November 2008 | Saint-Bonnet de Mure, FR)

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

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

Personal interests

- Computer history, NASDAQ

- Skiing: Competition during 13 years at the French and International Federations