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Permis B



Pierre-Francois Carpentier

Skills

System

OS	Debian/Ubuntu, RedHat EL/CentOS, Gentoo, FreeBSD	Virtualization	ESXi, VirtualBox, Vagrant, KVM, LXD, OpenVZ
Packaging	deb, rpm, ebuild	Deployment	Puppet, Ansible, Kickstart, Preseed, Terraform, Boto
Network	Keepalived, OpenVPN, DHCPd, VLANs	Cloud Providers	AWS, Azure

Services

Web Server	Apache, Lighttpd, Nginx, Tomcat	Directory	389 Directory, OpenLDAP, Samba4
Database	MySQL, PostgreSQL, Redis, DynamoDB, RDS	Other	Bind, Ntpd, Cups
Monitoring	Nagios, NRPE, Logstash, Snmpd, OpenTSDB, Grafana, CollectD	Security	Syslog-ng, Rsyslog, OpenSSH, sssd, IPTables, PF, stunnel
Network FS	Samba, NFS	Queueing	Kafka

Programming

Language	Shell/Bash, Python, Perl, C, Ocaml, Java	SCM	Git, Subversion, Mercurial
Framework	CherryPy, Flask	Spécification	Swagger/OpenAPI
Build	Make, CMake, gcc, clang		

Other

Network theory	Security, Routing, QoS, TCP/IP, ATM, MPLS	Computer Sciences	Operations research, Compilation, Graph Theory, Data analysis, UML
Documentation	Vim, reStructuredText, Markdown, L ^A T _E X, OpenOffice	Tools	Jira, Confluence, Github, Travis-ci, Jenkins, Slack

Language

French	Native
English	Fluent

Native language
TOEIC score of 940/990, daily practice

Experience

Professional Experience

- 2016–present **DevOps, Adobe Inc.**, Arcueil, France.
- Member of the Techops team operating Adobe Campaign (marketing campaign platform):
- Maintenance and evolution of the automation (Ansible/Terraform/Cloudformation).
 - Deployment of a SaltStack infrastructure.
 - DC to DC and DC to AWS migration of customer instance.
 - Creation of various tools helping with the day to day administration
 - Redacting documentation and procedures (Confluence Wiki, reStructuredText).
 - Continuous Integration (Jenkins/JenkinsFile).
 - Cost optimization on AWS.
 - Setup domains to send mass email campaigns (SPF, DKIM, DMARC).
 - Communicate with R&D teams to track new feature and improve solution robustness (DevOps).
 - Handling of monitoring alerts and customer tickets (On-call).
 - Troubleshooting of product issues and specific customer issues
 - Analyzes and recommendations to optimize the SQL queries executed by the product.

2011–2016 **System Engineer**, *Communication et Systèmes*, Le Plessis Robinson, France.

Construction of complex systems for public/semi-public clients:

- Automatic deployment (Puppet)
- Debian and RedHat Packaging.
- Creation and signing of packages repositories (reprepro/createrepo, GPG)
- Build (Make, Ant)
- Deliveries industrialization
- Continuous Integration (Jenkins)
- Continuous deployment
- Automatic installation(Kickstart/Preseed)
- DNS configuration (Bind)
- Databases configuration (MySQL/PostgreSQL)
- Directory configuration (389 Directory/OpenLDAP)
- Web servers configuration (Apache, Nginx, Tomcat)
- High Availability (SQL/LDAP multi-master replication, Apache/Nginx load balancing, VRRP/Keepalived)
- Debian/CentOS Configuration
- Monitoring (Nagios, NRPE, SNMP, Logstash)
- Virtualization (VMware ESXi, VirtualBox/Vagrant, KVM)
- Various scripting in Python/Shell/Perl/Ruby
- Operating manual (reStructuredText)
- Test procedures (Testlink)
- Project management system deployment (Trac)

Home Projects

2012–present **Various open sourced projects on GitHub.**

- puppet-samba, a Puppet module to manage samba.
- ascii-graph, a Python library to print data as ascii histograms.
- ldapcherry, a Python/CherryPY webapp to manage users and groups in multiple directory services.
- libemf2svg, a Microsoft (MS) EMF to SVG conversion library written in C.
- libvisio2svg, Library/Tools to convert Microsoft (MS) Visio documents (VSS and VSD) to SVG, written in C++.
- packages, various deb/rpm packages I build for my needs.
- Many other projects on GitHub: <https://github.com/kakwa?tab=repositories>

Internships

2011 **System integration/Software development: secured mail infrastructure conception**, *Communication et Systèmes*, Le Plessis Robinson, France.

Conception and construction of a secured mail infrastructure, with end to end encryption based on x509 certificates. Conception and construction of POC mailing list system with end to end encryption. (cryptography with N receivers). Technologies: Linux, S/MIME, x509, Dovecot, Postfix, Thunderbird, ldap, tls, C, polarSSL library.

2010 **Web development**, *INRIA*, Roquencourt, France.

Within the European project Ideas, Conception and construction of an internet website specialized in viewing oriental manuscripts and their translations.

Technologies: Python, Django, HTML, CSS, Apache, Linux.

2009 **Biological modelization: conception of a cancer tumor model**, *Laboratoire IBISC*, Evry, France.

Bioinformatics research. Conception and development of a cancer tumor model in order to study the PA-1 molecule impact. Technologies: C, Doxygen.

Education

2010–2011 **Master degree in network theory**, *Université Pierre et Marie Curie, Paris 6*, Paris, France.

Double degree with engineering diploma. Subjects : Routing, QoS, network protocols, simulation. . .

2008–2011 **Computer sciences engineering diploma**, *Ecole Nationale Supérieure d'Informatique pour l'Industrie et l'Entreprise*, Evry, France.

Study of Software development, Operating system, Network, Mathematics . . .

2005–2008 **Classe Préparatoire aux Grandes Ecoles**, *Lycée de Kerichen*, Brest, France.

Mathematics, Physics, Computer Sciences

Personal Interests

Sport Competition sailing for 9 years.

Music Guitar and piano practice.

Electronic Building and fixing of various devices.

Computer sciences Several personal projects (many of them published on GitHub), deployment of several services (Bind, openvpn, lighttpd, NFS) for personal needs.