

Bertrand JACQUIN
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France

29 years old (11/10/1984)
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Driver licence

Network and Security Engineer

SKILLS

Programming Languages	C, bash, awk
Formatting Languages	Latex
Autodidact	
Operating Systems	GNU/Linux: Gentoo (Mastered), RedHat /CentOS, Debian, Formilux
Network Devices	Cisco , HP Procurve, Nortel, Linux kernel
Routing	BGP, OSPF, iproute2 , VRF – bird, Quagga
Firewall / VPN	Linux NetFilter , Checkpoint (Secure Platform), OpenVPN , OpenSWAN, Cisco ASA, FreeRADIUS
Load Balancer	Excelsior Aloha, LVS, Haproxy
Web	Apache, mod_security, Squid, Varnish, nginx
Mail	Exim , Barracuda SpamFilter, Postfix, mlmmj, Dovecot, Spamassassin
IT services	NFS, DRBD, ISC Bind, ISC DHCP
Virtualization	QEmu/KVM, Xen, Vmware
Monitoring	Nagios , Cacti, RRDTOol, POM
Troubleshooting	tcpdump , tcptrace, strace , ntop, snmp
Log Handling	syslog-ng, Snare
Databases	OpenLDAP , MySQL
Proficient In	Vi(m) , OpenOffice, Subversion, git
French	Native
English	Read, Oral and Written
Breton	Intermediate

WORK EXPERIENCE

07/07 – Present (6 years and 7 months)	Network and Security Architect for Exosec (78 – Jouy-En-Josas/France) – Full-Time Monitoring systems and network development, network architecture, customer reference, develop POM (open monitoring platform), audit and securing network and web infrastructure, L2/L3/L7 filtering and tracing, high-availability Pre-sales Technical support Security: <ul style="list-style-type: none">• WiFi: Design and implement secured WiFi solutions dedicated to business leaders based on standards protocols: WPA2, 802.1x, RADIUS, IPSEC.• Checkpoint: Spreading Checkpoint SPLAT firewall, establish back return processes, installation, automated backup and restoration processes.• Hadopi Ready: Design and implement embedded devices targeted to secure and trace internet access in environment like hotspot, integrating centralized logs and management.
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- **Expertise Squid:** Expert in web filtering using Squid and Olfeo solution: NTLM, advanced filtering (Conseil Général de l'Oise, APGIS, EUROP-ASSISTANCE).
- **Expertise WAF/mod_security:** Implement reverse proxy solution using Apache and mod_security, log analysis and rules optimisation

Infrastructure:

- **Project management:** Referring and technical council for website and server hoster (5000 customers). Network architecture optimisation (Cisco), homogenization and automation of customer management interfaces, infrastructure resiliency optimisation. Implement Apache modules dedicated to secure shared services. Used technologies are Debian, DRBD, heartbeat, haproxy, netfilter, Apache, mod_security, PHP, MySQL, bash.
- **Audit / Analysis:** Audit analysis infrastructures (Cisco, HP Procurve, Nortel Networks, 3Com) targeted to resiliency optimisation and network mastering (monitoring) (VRRP, HSRP, OSPF, Spanning-Tree) (WFS, Europ Assistance).
- **Council and Integration:** help and achievement in laying out new building with Cisco devices focused in resiliency for security, telephony and monitoring (BMW leasing company).
- **Migrations:** Renew switching and routing architecture in 2 nuclear plex with 10 and 6 buildings outstretched on 9 hectares. HP Procurve deployed with a high level of security and resiliency (ACL, Spanning-tree, trunk etc) (Andra).

Monitoring:

- **Council:** Council for monitoring architecture (Conseil Général de l'Oise, Alphabet, Europ Assistance, Uniprevoyance, Apgis, Laboratoires Expansience etc).
- **Exosec:** Help and council for POM project (Exosec). Recommendation and develop the original core and modules of POM concepts for making monitoring more accessible for non dedicated teams favoured by optimal usage of nagios, rrdtool and Microsoft Excel as a configuration source.
- **Log management:** Compare and benchmark log centralized management solutions (Syslog-NG, Rsyslog, Snare).
- **Traffic monitoring:** Council and implement GigaStore solution (Network Instrument) in network core for post analysis on 1 week retention. Analyse network traces looking for abnormalities.

07/13 – Present

Self-employed person in spare time since September 2013: Criteo, Britt, EFLTech, Iperia, Triskel Studio

01/05 – 07/07
(2 years 1/2)

System administrator for 3S (78 – Saint-Quentin-En-Yvelines/France) - **Full-Time**

Convert an automated installation solution from HP-UX to GNU/Linux, Administrated soredi-france.com domain, Dollar Universe & CFT development for Wanadoo (ISP) (78 – Guyancourt/France). Major development established on BSS (Accounting and billing, Orange/Wanadoo merge) – 1 year

12/04 – 01/05
(1 month)

Training course as Network & Security technician for Écritel (92 – Clichy/France)
Hoster network administration

04/04 – 07/04
(3 months)

End of DUT training course for France Télécom research and development (22 – Lannion/France)
Develop a backup and restore solution for Linux system for QA team (via network, CD-Rom and USB drive)

PERSONAL EXPERIENCE in free software

Found & administrator of IRCme IRC hub (irc://eden.ircme.net) from November 2003 to July 2005.

Contributor to **Gentoo** project & GentooFR (<http://www.gentoo.org>) since July 2004: bugfix, documentation, development.

Systems and network administrator for **Enlightenment** project (<http://www.enlightenment.org>) since 2006: hosting

Founder of **Enlightenment-FR** association (<http://www.enlightenment.fr>): hosting, helping users, create events

Apache module development: mod_virtualvalue, mod_ruid

Hosting resources for **Numer'île** association (<http://www.numerile.tv>): digital readout, ebook format

Develop a GNU/Linux distribution for embedded devices dedicated to network: i586, MIPS, ARM (experimental state)

EDUCATION

2004-2007

Engineering school - École des Technologies Numériques Appliquées (ETNA) (Paris/France)
Specialisation in System, Network and Security
Alternate training department of Epita/Epitech schools

2004

DUT (Two-year university degree in technology) Telecom & Network engineering
Specialisation in Optical Telecommunication
Cisco CCNA preparation
Université de Rennes 1 – Lannion IUT (France)

2002

High school diploma in Electronic engineering (with honours)
Lycée Yves Thépot (29 - Quimper/France)

AND HOBBIES

- Trail Mountain Biking
- Swimming
- Science-Fiction Literature