Xavier Beaudouin
System & Network
Administrator

- 📓 dual skills
- 📓 curious
- 📓 team player and autonomous
- 📓 enthusiast

25+ years of Networks & Opensource Systems Administrator

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France

System	●●●●○	Network	●●●●○	Monitoring	●●●○○
IT Infrastructure	●●●●○	Development	●●●○○	Security	●●●●○
Project Management	●●●○○				

Skills

Systems	FreeBSD, OpenBSD, Linux, Mac OS X, ~~Windows~~
Network	TCP/IP (IPv4 & IPv6), Cisco, Juniper, Ubiquiti, Wanguard, Arbor, Mikrotik
Routing Protocols	BGP, BGP Flowspec, OSPF, ISIS, PIM
SAN/NAS	ZFS, NetApp, Isilon, Samba, iSCSI, FCP, FCAL, FCoE, Nexenta
LoadBalancers	nginx, F5 Big/IP, Foundry ServerIron/ADX, Aloha, Relayd
Firewall	pf, pfSense, opnsense, DynFi, pf, Sophos, ASA
Programming	Perl, Shell, C, python, HTML, SQL, lua, arduino, git
Virtualization	bhyve, VMWare ESX, qemu, Veeam, proxmox
Automation	puppet, saltstack, ansible
Monitoring	Librenms, Observium, nagios, Centreon, Zabbix
FreeBSD	Poudriere, BastilleBSD, VNET, jails, bastillebsd
Mail	postfix, dovecot, amavisd-new, zimbra, ...

Experiences

Since May 2023
Canada

FreeBSD
ZFS
Poudriere
Gitlab

System Administrator – Full Remote, Klara Inc

> FreeBSD System administration
> FreeBSD Security patches
> Gitlab Server maintenance on FreeBSD
> Networking expertise
> Upstreaming FreeBSD patches and ports

Since Apr 2023 *Longwy* FREELANCE	**Founder**, RIS-LSI > BSDs: FreeBSD, OpenBSD, NetBSD > GNU/Linux: Debian, Ubuntu... > Networking: Cisco, Juniper, Mikrotik, Ubiquiti, Wifi > Development: C, Asm, Pike, Python, ... > Energy Storage: Victron Energy
Oct 2022 - Mar 2023 *Switzerland* MIKROTIK, INFINIBAND WIREGUARD, HPC JUNIPER	**Network Engineer – Full Remote**, SquareFactory > Global VPN solutions to connect intrastructure and clouds > Migration of SRX as router to Mikrotik 10/100G > Professionnal distributed monitoring
Nov 2017 - Oct 2022 *Luxembourg* CISCO, EXTREME UBIQUITI, CISCO WLC FREEBSD, DEBIAN RIPE, BGP, NETFLOW WIFI 802.1x PUPPET VMWARE, ZFS	**Network & Systems Engineer**, Hotcity SA Hosting and network platform > Move the VM from VdL to Internal ESX (hardware, storage, ...) > Changed OS from Linux to FreeBSD (PXE, poudriere, ...) > Automation of the platform > Dual stacked all that can support IPv6 > Review all processus of all software used > Monitoring all VM, capacity planning, alerting > RIPE work, make all the network redundant, > Simplify all the network > Redesign the NAT system to be fault tolerant > New brand of wifi HW, and deploying on customers > Expert in OS and Network > R&D > Hosting platform for Wordpress and Jails
Jan 2017 - Nov 2017 *Luxembourg* CISCO, BROCADE LIBRENMS DEBIAN	**Network & Systems Engineer, NetOps**, BSO Network > NMS optimizations and deployment > Network automatization > R&D

Sep 2015 - Jan 2017 *Strassen, Luxembourg*	**Network & Systems Engineer**, Gandi

Backbone redesign

Cisco ASR, Nexus 5k/7k, 65xx
Brocade ADX, F5, Aloha
BGP Flowspec, OSPF, Netflow
Debian, FreeBSD
Arbor, Wanguard

> Changed from cold to hot potato of the backbone
> Transit, Peering, IPv4 marked, Ripe work & automation
> DDoS handling with automatics strategies
> Network accounting and financial reports
> Technological solutions deployments to reduce operational costs
> Technical solutions advisor for corporate sellers
> Expert in Load balancers
> Supermicro Hardware guru

Feb 2013 - Sep 2015
Paris

Network & Systems Engineer, Horizon Software

IT Securization / Rationalization / P2V

Cisco, Netscreen
VMWare ESX, Proxmox, P2V, Veeam
Ubuntu, Debian, Windows, Nexenta
Samba, Active Directory, Puppet, Observium, LDAP, Rancid, Zimbra

> Setting up a small business server room
> OpenLDAP to Active Directory bridge
> Migrating netscreen to dual pfsense firewall
> Automation of all linux
> Network Management System with Observium
> Authentication Unification with LDAP & AD
> VPN access for road runners and remote users
> Security officer

Jun 2012 - Jan 2013
Montigny-le-Bretonneux

R&D Engineer, AFNIC

Juniper
python, dns, node.js

> Team leadership of R&D engineers on official publication with ANSSI & AFNIC
> DNS R&D
> Link of production world and R&D world
> Designing and developping of a web UI to DNSWitness data

Oct 2011 - May 2012
Paris

CTO, Teclib'

Cisco
Debian, FreeBSD, Windows
VMWare ESXi
Netgraph, vtun, Zimbra

> Managed a team composed of 4 network & systems administrators
> Technological solutions deployments to reduce operational costs
> Patnerships with NetApp, Cisco, VMWare, Juniper, ...
> Calls for Tenders replys
> Sustained/presales engineer Systems & Network Solutions
> Designer of SaaS, Managed Hosting & Security Solutions
> R&D on new technological solutions for Customers
> Encrypted L2 VPN over ip
> Customer's network migration and QoS over low bandwith xDSL

Feb 2010 - May 2011 *Paris*	**CTO**, So-Privé Cloud Computing - OutScale

Startup company - Ownership

Cisco UCS, Nexus, Force10, Brocade
Xen 4.0.1, VMWare ESXi
NFS/RDMA, Infiniband
NexentaStor, Isilon, NetApp Cluster
PXE, Kickstart, RPM

> Managed a team composed of 3 developers and engineers
> Architect of a cloud computing platform : AMPQ, network, storage, datacenter
> Consulting for datacenter choices and day to day administration
> Architect of cloud computing platform v2 with Cisco UCS, Nexus, private cloud
> RIPE work, IPv4 et IPv6, peering and transits
> Designed an hybrid storage engine based with ZFS & SSD.
> Automatization of installation of nodes with PXE, Kickstart & RPM

Mar 2007 - Feb 2010
Paris

Network & Linux Manager, Capital Fund Management

Cisco, Juniper, Brocade, CWDM
BGP, OSPF, PIM
Debian, RedHat, FreeBSD, OpenBSD
RPM, Kickstart, ZFS
ISC-NTPd, Nagios
OPRA, NYSE
Infiniband

> Complete redesign of the network (2 atlantics links, 7 datacenters, 7 fibers, ...)
> Complete redesign of the internet access: PI, AS, RIPE, firewall & proxies
> Designed and deployed the new trading architecture based on multicast
> Deployed Sun Grid Engine cluster to allow computing of financial data
> Internal Linux server administration (300 to 500 servers)
> Industrialization of the Linux Redhat installation process
> Deployed ISC-NTPd (stratum 2)
> ZFS based file servers specifications
> Installation of opensource monitoring systems
> Anycasted sensible services: DNS, PXE, DHCP

Jan 2006 - Mar 2007
Le Plessis Robinson

Network & Hosting Manager, Kheops Organisation

Cisco, Brocade, Fortigate
BGP, OSPF, CWDM, Netflow
FreeBSD, Debian
DNS, Radius, routers2.cgi
Netapp, CIFS, iSCSI

> Complete redesign of the network backbone from a L2 system to complete L3
> xDSL collect using LNS and Radius
> 120sqm Datacenter operations : planning with third party, customer's access
> Designed and deployed strategical ISP services
> Expert in network and Unix for company's customers
> Research about making redundant xDSL access for customers
> Deployment of storage solutions with Netapp
> Sustained for customers and internal network problems
> Managed a small team of part time employee and trainees

Jul 2005 - Jun 2006
Levallois

Network & Systems Architect, Atradius (Groupe Etoile)

AIX, Linux, Windows
Citrix, BEA/Weblogic, Samba, Keepalived

> Disaster recovery plan design and deployment
> BEA/Weblogic administrator, AIX, Linux & Citrix administrator
> Expert in System and Network technologies for a 4 persons team
> Technological solutions deployments to reduce operational costs

Jan 2000 - May 2005 *Paris*	**Project Team Leader**, Tiscali Enterprises (Cable & Wireless / ISDnet)

F5, Foundry Networks, Cisco
FreeBSD, Solaris, Linux, BSDi
Postfix, Sendmail, Bind
NetApp
Caudium
Pike, C

> Architect and researcher for all B2B systems with security in mind.
> Sustained engineer for: load balancers, switching, OS, OSS & storage
> Managed a team of 2 pike developers
> Project leader of Open Source webmail software : CAMAS
> B2B platforms: industrial web hosting, webmail and homepage system, ...
> Administrator & Security officier of B2B Platform

Dec 1998 - Dec 1999 *Paris*	**Network & Systems Administrator and Architect**, Intégra (Ippolis Informatique)

Cisco
Linux, OpenBSD
Firewall

> Securing, fiabilization of a 3 media plaform with OpenBSD and Linux
> Redesign the internal L2 networks
> Installed the backbone and managed daily peering work
> Mail server under Linux with webmail and web interface to handle provisionning
> Planning and IP renumbering for moving the production platfrom to a new site
> Merge plateform with mother's company

Jul 1997 - Dec 1998 *Paris*	**Network & Systems Administrator and Architect**, Société des Editions Historiques et Culturelles

Cisco
Solaris, Linux
mail, mail2fax, webmail
firewall
sendmail, bind, apache

> Director of Operations for the Internet platform
> Created and deployed an internet portal from French Historical "Patrimoine"
> Deployed mail services : mail, mail to fax, firewall, webmail
> Deployed routing access and services associated
> Attempted to create a company with this portal

Sep 1995 - Feb 1997 *Paris*	**Network & Systems Administrator / Professor**, Ecole Centrale d'Electronique

C
mail
NFS
Page Web
Security
Cisco

> C Language professor for the first year students in "BTS Electronic": 4h weekly
> Implemented mail, Internet Services, official website, Internet access
> Cisco access and configuration with an exclusive internet access partnership
> Backup administrator for the entire network and servers of the school

Education & Certifications

1993-1997 *Paris*	**Computer & Network Engineering degree**, Ecole Centrale d'Electronique
1991-1993 *Vitré, France*	**Associate Degree in Electronics (BTS Electronique)**, Lycée Jeanne d'Arc
1990-1991 *Saint-Brieuc, France*	**French High School Diploma in Electronics (Baccalauréat F2)**, Lycée Sacrés Cœurs

Miscellaneaous

Car	B Driving License
Hobbies	Scuba diving (Level 1), Trekking and foreign travels
IT Hobbies	RIPE Member, FRnOG "Member", arduino coding, domoticz, home automation
Energy	Victron Energy Self Professional