

Romain Boissat | Network Engineer

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A network and UNIX geek who ♥ BGP, IPv6 and KISS.

Experience

Vocational.....

LUXNETWORK S.A.

Hesperange, Luxemburg

Network engineer and problem solving warrior

01/2017 - 11/2017

- **National ISP infrastructure take-over and migration due to acquisition of TLPO by Luxnetwork S.A.**
 - Learning of IP/MPLS stack configuration, operation and troubleshooting on JunOS.
 - Complete overhaul of the existing national network, technology-wise, topology-wise and service-wise (VLAN → I2-circuit).
 - Major involvement in the migration of a ten years old switching network into a full featured IP/MPLS Juniper network.
 - Capacity planning and technology preview to achieve homogeneous infrastructure, KISS principles and network automation.

Keywords: Juniper SRX/EX/MX/vSRX/vRR, MPLS, L2-Circuit, tunneled LDP, RSVP, VPLS, E-VPN & IRB, IS-IS, BFD.
- **NOC & system operations**
 - Troubleshooting on multiple complex networks (MRV L2 switches, Cisco routers, Juniper ScreenOS, Ciena MPLS switches).
 - Provisioning of new services, mostly on new Juniper network, sometimes on former network before future migration.
 - Reverse-engineering and troubleshooting of a complex system and hosting infrastructure.

Keywords: MRV Optiswitch 912 / 9124, Ciena 3930 SDS / 5160 SAS.
Keywords: Juniper SSG, Cisco 6k5/3750G/2960G, VMWare Vsphere, Nexenta SAN, FreeNAS.

OVH

Roubaix, France

Backbone Network engineer

05/2016 - 10/2016

- **Backbone network upgrade project**
 - Enabling BGP optimizations on all route-reflector routers: Route Selective Download, slow peer detection.
 - Building the fiscal year budget for backbone operation and growth (hardware, optical modules, PoP).
 - Planning operations according to the budget, including internal and external logistic challenges.
- **NOC & Backbone operations**
 - Backbone links turn up and troubleshooting, involving traffic isolation and rerouting.
 - Routing optimizations to keep the best quality/capacity ratio.

Keywords: BGP, Cisco ASR 9k, IOS-XR RPL, Cisco Nexus 7k, on-a-stick architecture, LACP + ECMP.

TRINAPS SAS

Belfort, France

Principal Network & System Engineer

02/2011 - 05/2016

- **Operator backbone network**
 - Nation-wide layer 2 ring with dual stack routing using OSPF as core IGP and route redistribution into iBGP;
 - ExaBGP deployment to enable anycast reachability for critical ISP services (DNS, SMTP NTP).

Keywords: Cisco ME3400E, Cisco REP, BGP route reflector, OSPFv2/v3, RFC 6598, RFC 3021, IPv6.
- **BGP border network: from stub AS to multihomed AS with GIX presence**
 - External and Internal routing policy design and RIPE DB maintenance;
 - Peering management: about forty eBGP peerings (50% of ingress and egress traffic through peering);

Keywords: Cisco NPE-G2, prefix/as-path lists, peer-session/peer-policy templates, RPSL, looking glass.
- **M3V Infrastructure: Monitoring, Metrology, Management, VPN**
 - Secure and mobility-ready management of the whole network and system infrastructure (IPv4 and IPv6);
 - Isolation of private addresses (RFC 1918) from the global routing table;

Keywords: VRF-lite+GRE+OSPFv2, Quagga, Proxmox VE, OpenVPN, OOB, Icinga, Observium, Wansight, Netflow v9.
- Multiple secondary missions: System architecture (virtualization cluster and storage units), contribution to design and validation of back-haul architectures (DSL, Ethernet, Public Fibre networks), HR technical interviews.

Internships.....

TRINAPS SAS

6 months final Internship,

IPv6 expertise, allocation and addressing scheme, testing, hardware compliance and operational IPv6 World Day.

Belfort, France

2011

eNovance

6 months intermediate Internship,

GNU/Linux expertise, Python development and system and security audit for the OECD.

Paris, France

2009

Education

University of Technology of Belfort-Montbéliard

Engineering degree in Computer Science, Emphasis on Networking and Telco.

Belfort, France

2012

Services, Networks and Communication

Technical degree, Obtained with honors.

Saint-Raphaël, France

2008

Technical skills and interests

Networking.....

Software & Protocols: Comprehensive OSI/TCP-IP knowledge and great troubleshooting and audit skills. Extensive experience designing and evaluating new architectures and configurations. Extensive IPv6 knowledge and related architectures. Extensive knowledge of layer 2 Ethernet switching architecture, operation and troubleshooting. GNU/Linux networking extensive skills (netfilter, quagga, iproute2, misc. utilities). MPLS/MP-BGP architecture, operation and troubleshooting on JunOS platform. Deployment of CCC, I2-circuit, VPLS, EVPN services.

Hardware: Eight years of IOS experience (routing & switching), two years of JunOS (routing, firewalling, switching), one year on Cisco IOS-XE and several months on IOS-XR and NX-OS. OSPFv2/v3, iBGP/eBGP and filtering on all platforms. IS-IS in production environment on JunOS only. Hands-on experience with 100G Ethernet technology (QSFP28/CPAK - LR4 - SR10). Very good empirical knowledge of 802.11 Wi-Fi technologies.

Computing.....

GNU/Linux: Daily server and desktop usage, 10 years experience. Debian & Arch/Antergos.

Others Unixes: Advanced knowledge of OS X. Basics on BSD and Solaris.

Automation: Ansible basics (*ansible-shell* & *-m shell* usage) with *playbook* experiments on personal infrastructure.

Windows: Good general and network troubleshooting knowledge.

Software development: Bash / Python scripting. GIT, Subversion. XHTML/CSS basics.

Project Management: Daily use of XMind (mental maps) and Gantt charts.

Languages

French: Native language

English: Advanced

Very good oral and reading comprehension. Good written and oral expression TOEIC 965/990.

Spanish: Basics

Hobbies

Personal infrastructure:

<https://glanet.org> - eBGP over OpenVPN/IPSec between friends.

<https://chroot-me.in/> - personal homepage, blog and wiki.

Music:

\M/etal, classical (Bach, Tchaïkovski), jazz (John Scofield), electronic, folk.

Mountain Bike:

Intermediate amateur level, seeking technical and performance improvements.

Outside activities:

Hiking, Tree climbing "acrobranche", swimming.

Leisure computing:

Singleplayer and cooperative games. Free and opensource software.

Overclocking, but without the bling :)