Romain Boissat | Network Engineer

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A network and UNIX geek who ♡ MPLS, BGP, IPv6 and KISS.

Experience

FREE PRO (ex JAGUAR NETWORK) — **Nantes, France**
Network Engineer — *since 05/2020*

- **MPLS Service Provider backbone improvements, migrations and compliance.**
  - Performance/Redundancy tuning: RIB to FIB filtering on Route-Reflectors & low FIB scale PE routers, BGP add-path for ipv4/6 and vpnv4/6 unicast AFIs.
  - IGP scaling: OSPF NSSA areas and fine tuning to allow several hundreds of new low scale FIB PE routers.
  - Study of new BGP RR, from physical to virtual appliances. Study of migration from MPLS/LDP to MPLS/SR.
- **Misc RUN tasks**
  - Telco and datacenter backbones day to day operations, complex troubleshooting, eBGP peering session management.
  - Maintenance of metrology systems and high performance network benchmark servers scattered across the backbone.

Keywords: Cisco IOS-XR 64bit, RPL, ASR9k, NCS 5k5, 100GE, 400GE, Flowspec, Netshot compliance tool.

SIGMA INFORMATIQUE — **Nantes, France**
Infrastructure Engineer - Network and Security — *02/2018 - 04/2020*

- **IP/MPLS backbone design, testing and deployment.**
  - In charge of an Nantes - Paris IP/MPLS backbone project from design to deployment.
  - Entire lifecycle management: design, cost analysis, purchases and orders tracking, testing, deployment, documentation.
- **BGP and ISP platform manager, including day to day MRO.**
  - BGP platform: comprehensive configuration redesign (route-maps, ACLs), new transit peer, upgrade to 10G Ethernet.
  - Deployment of customer related services: filtering rules, site to site IPSec VPN tunnels, service provider migrations.

Keywords: Huawei NE/S6720, VRP8, Cisco ASR1001-X, MPLS, LDP, MP-BGP, BFD, FRR, L2VC, IPVPN, EVPN..

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.**
- Complete overhaul of the existing national network, technology-wise, topology-wise and service-wise (VLAN → l2-circuit).
- Major involvement in the migration of a ten years old switching network into a full featured IP/MPLS Juniper network.

Keywords: Juniper SRX/EX/MX/vSRX/vRR, MPLS, L2-Circuit, tunneled LDP, RSVP, VPLS, E-VPN & IRB, IS-IS, BFD.

OVH — **Roubaix, France**
Backbone Network engineer — *05/2016 - 10/2016*

- Enabling BGP optimizations on all route-reflector routers: Route Selective Download, slow peer detection.
- NOC member, managing day to day operations on the global OVH network.
- Building the fiscal year budget for backbone operation and growth (hardware, optical modules, PoP).

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

TRINAPS SAS — **Belfort, France**
Principal Network & System Engineer — *02/2011 - 05/2016*

- *ExaBGP* deployment to enable *anycast* reachability for critical ISP services (DNS, SMTP NTP).
- Peering management: about forty eBGP peerings (50% of ingress and egress traffic through peering).
- *M3V platform: Monitoring, Metrology, Management & VPN*: Secure nomad and dual stack access to management networks.
- 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.

Keywords: Cisco ME3400E with REP, OSPFv3, RFC6598, Netflow, IPv6, Proxmox VE, OpenVPN, Observium, Wansight.

Certifications

Personal work **Belfort, France**
IPv6 Sage - HE.net, *2011*
Expertise IPv6.

SIGMA Informatique **Nantes, France**
Huawei HCNA Routing & Switching, *2018*
Huawei's intermediate certification about routing and switching. Requirement to HCNP.

Education

University of Technology of Belfort-Montbéliard **Belfort, France**
Engineering degree in Computer Science, Emphasis on Networking and Telco. *2012*

Services, Networks and Communication **Saint-Raphaël, France**
Technical degree, Obtained with honors. *2008*

Technical skills and interests

Networking

Software & Protocols:
Comprehensive OSI/TCP-IP knowledge and great troubleshooting and audit skills.
Extensive knowledge of IPv4 & IPv6 routing and related protocols: MP-BGP, IS-IS, OSPFv2, OSPFv3.
MPLS/MP-BGP architecture and IPVPN, L2VPN, EVPN services operation and troubleshooting.
Extensive experience in Ethernet switching architecture, management and troubleshooting.
GNU/Linux networking extensive skills (netfilter, quagga, iproute2, misc. utilities).
Solid knowledge of layer 1 technologies and principles: 1/10/100/200/400G Ethernet and DWDM.
Solid practical knowledge of 802.11 Wi-Fi technologies.

Network vendors:
12+ years of experience on Cisco IOS/IOS-XE.
8+ years on Juniper JunOS
5+ years on Cisco NX-OS/IOS-XR, Huawei VRP, Ciena Service Delivery Switches 39xx Carrier Ethernet and Fortinet Fortigate 1xx/2xx/8xx/15xx.

Computing

GNU/Linux: Daily server (baremetal, VM and LXC)), 15+ years experience on Debian, Arch Linux, CentOS.

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

Arabic, iraqi dialect: Basic vocabulary.

Hobbies

Personal infrastructure: `https://romain.boissat.fr/` - personal homepage, blog and wiki.

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

Outside activities: Hiking, swimming, spirited driving on B roads in a MX-5 roadster.