

# Romain Boissat | Network Engineer

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

## Experience

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### 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, Luxembourg

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 → I2-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

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<b>Personal work</b> <i>IPv6 Sage - HE.net,</i> Expertise IPv6.	<b>Belfort, France</b> 2011
<b>SIGMA Informatique</b> <i>Huawei HCNA Routing &amp; Switching,</i> Huawei's intermediate certification about routing and switching. Requirement to HCNP.	<b>Nantes, France</b> 2018

## Education

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<b>University of Technology of Belfort-Montbéliard</b> <i>Engineering degree in Computer Science, Emphasis on Networking and Telco.</i>	<b>Belfort, France</b> 2012
<b>Services, Networks and Communication</b> <i>Technical degree, Obtained with honors.</i>	<b>Saint-Raphaël, France</b> 2008

## Technical skills and interests

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### 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

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**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

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**Personal infrastructure:** <https://chroot-me.in/> - 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.