

# Romain Boissat | Network Engineer

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

## Experience

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### Vocational.....

#### **SIGMA INFORMATIQUE**

*Infrastructure Engineer - Network and Security*

**Nantes, France**

*since 02/2018*

- **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.
- Integration of this new platform with existing platforms and service migrations.

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

- **BGP and ISP platform manager, including day to day MRO.**

- BGP platform: comprehensive configuration redesign (route-maps, ACLs), new transit peer, upgrade to full 10G Ethernet.
- Hardware and software upgrades, patching and troubleshooting on multiple equipment types.
- Deployment of customer related services: filtering rules, site to site IPsec VPN tunnels, service provider migrations.

*Keywords: Cisco ASR1001-X, templates peer-session/peer-policy, OSPFv2/v3, Fortigate 800, Cisco 4500X.*

#### **LUXNETWORK S.A.**

*Network engineer and problem solving warrior*

**Hesperange, Luxemburg**

*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**

*Backbone Network engineer*

**Roubaix, France**

*05/2016 - 10/2016*

- **Backbone network upgrade project and NOC engineering**

- 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).

#### **TRINAPS SAS**

*Principal Network & System Engineer*

**Belfort, France**

*02/2011 - 05/2016*

- **Operator backbone and border network**

- *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);

*Keywords: Cisco 7201 & ME3400E, Cisco REP, BGP route reflector, OSPFv2/v3, RFC6598, Netflow v9, IPv6.*

- **M3V Infrastructure: Monitoring, Metrology, Management, VPN**

- Secure and mobility-ready management of the whole network and system infrastructure (IPv4 and IPv6);

*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.

## 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

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**Software & Protocols:** Comprehensive OSI/TCP-IP knowledge and great troubleshooting and audit skills. Extensive experience designing and evaluating new architectures and configurations. Extensive knowledge of IPv4 & IPv6 routing and related protocols: MP-BGP, IS-IS, OSPFv2, OSPFv3. MPLS/MP-BGP architecture, operation and troubleshooting on Huawei VRP8 and Juniper JunOS platform. Deployment of MPLS services like I2-circuit, IPVPN, EVPN services. Extensive experience in Ethernet switching architecture, management and troubleshooting (IOS, NXOS, JunOS, VRP). GNU/Linux networking extensive skills (netfilter, quagga, iproute2, misc. utilities).

**Hardware:** Eight years of IOS/IOS-XE experience (routing & switching), two years of JunOS (routing, firewalling, switching) and more than a year with Cisco NX-OS and Huawei VRP. OSPFv2/v3, IS-IS and MP-BGP and filtering on all platforms. Hands-on experience with 100G Ethernet technology (QSFP28/CPAK - LR4 - SR10). Very good empirical knowledge of 802.11 Wi-Fi technologies.

### Computing

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**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

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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://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 "accrobranche", swimming.

**Leisure computing:** Singleplayer and cooperative games. Free and opensource software.