

Romain Boissat | Network Engineer

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Router# sh running-config | section ip engineer rboissat

Experience

Vocational.....

OVH

Network engineer

Member of the Network team in Roubaix office.

Roubaix, France

since 05/2016

TRINAPS SAS

Network Engineer

Principal engineer, working on backbone, border, customer access and server access networks and on the system infrastructure (OS, services management, virtualization, storage) in a regional operator providing ISP and hosting services to businesses.

Belfort, France

2011–2016

Key projects (design, lab testing, production, documentation):

○ Operator backbone network

- Nation-wide ring backbone network;
- Layer 2 based on Cisco *Resilient Ethernet Protocol* (REP) replacing *Spanning Tree protocol*;
- Layer 3 (dual stack) using OSPFv2/v3 with connected and static route redistribution into iBGP;
- *ExaBGP* deployment to enable *anycast* reachability for critical ISP services (DNS, SMTP NTP).

Keywords: Cisco ME3400E, REP, route redistribution, OSPF, RFC 6598, RFC 3021, IPv6.

○ BGP border network

- Migration from *stub AS* to *multihomed AS* with secondary transit ISP and GIX peerings;
- External and Internal routing policy design and RIPE DB maintenance;
- Peering management: about forty eBGP peerings (50% of ingress and egress traffic through peering);
- Management of *peeringdb*, *radar by Qrator*, *BGPMon* and *Andrisoft WANSight* (*Flexible Netflow* collector).

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);
- Based on a hypervisor server and a *Management Router* (MR), directly connected on the backbone network;
- Isolation of private addresses (*RFC 1918*) from the global routing table;
- Virtual machines: Icinga (monitoring), Observium (SNMP metrology + central syslog) and admin VPN.

Keywords: Cisco ME3400E, VRF-lite+GRE+OSPFv2, Quagga, Proxmox VE, OpenVPN, IPv6, Serial OOB.

○ Temporary event infrastructure (Eurockéennes from 2011 to 2015)

- Fibre ring network composed of multiple distribution+access switches using *MSTP* protocol;
- Delivery of multiple Internet services and point-to-point links with Q-in-Q;
- Design of a Debian GNU/Linux VM as a NAT gateway, supporting several thousands of users;
- Deployment of several VM (SNMP metrology, netflow collector, monitoring, VPN gateway);
- High density Wi-Fi infrastructure, up to two thousands users with a dozen access points.

Keywords: Kernel tuning, Openvswitch, Proxmox VE, ntop-ng, OpenVPN.

- Multiple secondary missions: System architecture (virtualization cluster and storage units), contribution to design and validation of backhaul architectures (DSL, Ethernet, Public Fibre networks), HR technical interviews and strong involvement in most company matters in a small business environment.

Technical environnement: Cisco (ASR1k, NPE-G1/G2, ISR G2, ME3400E, Catalyst, Nexus 5k, SG300), Juniper (SSG, SRX), ISP and hosting services (ISC Bind9, Knot, Unbound, rsyslog, ferm/ufw, ISC dhcpd), Debian GNU/Linux, Proxmox VE, Ansible, Icinga, Observium, Rancid, iSCSI, NFS.

Internships.....

TRINAPS SAS

Final Internship,

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

Belfort, France

2011

eNovance

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

Network protocols: Comprehensive OSI/TCP-IP knowledge and great troubleshooting and audit skills. Extensive IPv6 knowledge. GNU/Linux networking expertise (netfilter, quagga, iproute2, misc. utilities). Good skills of protocol or configuration experimental evaluation. Practical knowledge of Cisco cbQoS and L2TPv3 xconnect. Good theoretical basics of MPLS/MP-BGP architectures and associated protocols (OSPF, LDP autoconfiguration) and intermediate knowledge of MPLS enabled services (L3 VPN, L2 PW, VPLS). Recent interest in Carrier Ethernet (EVC), PBB/EVPN and resulting services (E-LAN, E-LINE, E-TREE).

Network hardware: Eight year of IOS experience, first on switching then on routing, one year on IOS-XE, 6 month on JunOS (SRX and vSRX). OSPFv2/v3, iBGP/eBGP and filtering on all three platforms. Management of several Juniper SSG firewalls and several Nortel/Avaya switches. Strong interest in pre-production tests and hardware qualification. Very good empirical knowledge of 802.11 Wi-Fi technologies.

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.

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.

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.

Overclocking, but without the bling :)