

# Arnaud Fenieux

System and Network Engineer

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🌐 www.afenioux.fr

37 years old



Good knowledge of the Internet Peering Community  
BGP Speaker

## Work Experience

- Jan. 2018 **Network engineer**, *HopUs.net*, remote work, France.  
– Now The HOPUS transit service fills the gap between IP networks that matter.  
○ Lots of stuff.
- Sept. 2014 **Network engineer**, *FrancelX.net*, Paris, France.  
– Dec. 2017 FrancelX is an IXP that aims to federate all French and international operators in Paris.  
○ Deployment, configuration and maintenance of the MPLS/VPLS platform (10 POPs).  
– Juniper EX9200, Brocade SLX, Brocade MLX and Coriant Groove G30.  
○ Design, configuration and deployment of the OOB network (ISIS on Cisco 3845 & Force10 S4810).  
○ Implemented IRR and RPKI/ROA route validation on FrancelX Route Servers ([results](#)).  
○ Deployment in Paris of a RIS collector, an ATLAS Anchor and a k.root-seveurs.org DNS instance, in collaboration with the RIPE NCC.  
○ Automation of customer provisioning and network wide deployments with [Junos PyEZ](#) and [Ansible](#).  
○ Day to day system administration with Promox and Ubuntu (and FreeBSD for personal use).
- Dec. 2011 **Network engineer**, *Rezopole.net (LyonIX)*, Lyon, France.  
Sept. 2014 Rezopole manages Internet eXchange Points in several cities of the Rhône-Alpes region.  
○ Deployment, configuration and maintenance of the Cisco platform : 25 switches / 5 BGP & OSPF routers.  
– Catalyst 6500, Catalyst 3750, ME4924 switches and ASR1k routers.  
○ System administration : KVM, Debian, CentOS, FreeBSD and open-source softwares.  
○ Deployment of the LISP-Lab testbed, i.e. connectivity with the Internet (<http://lisplab.openlisp.org>)  
○ Design and deployment of a Trill Fabric on the Core Network (3 POPs, with Brocade VDX)  
○ Technical Manager since September 2013 (managing a team of 5 persons).
- Dec. 2008 **System and network administrator**, *Artprice.com*, Lyon, France.  
Dec. 2011 Artprice is the world leader in art market information.  
○ Announce of AS20672 with 2 BGP peers on Cisco 7200 and OpenBGPD.  
○ Private cloud with Xen3 and Pillar SAN on CentOS hypervisors and 200 Debian VM.  
○ DNS platform with Bind9 and OpenLDAP to manage zones.  
○ NAS : Nexenta OS, 72TB, zfs snapshots, nfs export.
- Feb. 2008 **End of studies internship, SysArch team**, *Clara.net*, London, UK.  
Aug. 2008 Claranet is an ISP and Managed services provider.  
○ Setting up a RIPE Mirror server to manage public IP assignments delegated to Claranet.  
○ Writing a web interface in Perl to manage customers IP assignments.  
○ Perl scripts to import assignments and customers information from previous systems.

## Talks, writings and contributions

- January 2017 **Writer**, *MISC magazine 89*, [miscmag.com](http://miscmag.com).  
Co-author of the article "[IP squatting and spam](#)" with J. NICOLLE.
- Oct. 2016 **Coder**, *RIPE Hackathon 73*, [PeerMe](#) project, Madrid, Spain.  
Tool to discover and generate configuration from PeeringDB for possible peerings between ASN.
- May 2016 **Speaker**, *RIPE Meeting 72*, Connect Working Group, Copenhagen, Denmark.  
Route Servers, features and security.
- March 2016 **Writer**, *MISC magazine 84*, [miscmag.com](http://miscmag.com).  
Co-author of the article "[Extension of LAN : MPLS/VPLS/VXLAN and LISP](#)" with F. VINCENT and S. SECCI.
- Aug. 2015 **Speaker**, *AfPIF*, African Peering and Interconnection Forum, Maputo, Mozambique.  
IXP Interconnection : Why ? How? Pros and cons.
- 2015 – 2020 **Speaker**, *University of Reims*, Master "Service Provider network", Reims, France.  
lecture and practicals (Backhaul/IGP/BGP/IXP/Peering).

2015 – 2017 **Speaker**, *University Pierre and Marie Curie*, Master "Service Provider network", Paris, France.  
lecture (BGP/IXP/Peering).

2013 – 2015 **Facilitator**, *AXIS Project*, in collaboration with the Internet Society.  
Facilitator to support the establishment of IXP in Africa (Burundi, Ivory Coast, Algeria).

o Talks, Writings and Workshops I made (French and English) : <http://www.afenioux.fr/doc/presentations>

## Computer skills

Operating Systems	Linux (Debian/Ubuntu), FreeBSD	Network	VLAN, STP, OSPF, IS-IS, BGP, MPLS/VPLS, VRF, C/DWDM
Languages	Shell, C, Python, Perl, Python, PHP, XHTML/CSS, SQL...	Software	Bird, GoBGP, Quagga, KVM, Apache2, Nginx, MySQL, Bind, Postfix, haproxy...
Readings	MISC (miscmag.com), Linux-Mag (gnulinuxmag.com)	Meetings	NANOG, RIPE meetings, Euro-IX, FRnOG.org

## Education

2003 – 2008 **Master of Science**, *Computer Science*, ESEO, Angers.  
Networks and telecommunications engineer

### Languages

French Mother tongue

English Fluent

German Intermediate level

TOEIC : 950 (2017), lived 6 months in UK (2008)

## Interests and hobbies

Sport Kitesurfing, Snowboarding, Diving, sailing instructor.

Music Synthesiers (electronic music) with Nord Lead keyboard and an Arduino with midi shield.

Photography Nikon D5300, long exposure.