

Vincent TOUCHARD

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Network Engineer

About

10 years of experience with big companies complex networks.

Looking to work in IT/Cloud/Telecom domains (network backbone, optical fiber, satellite, ...) or something really different. Open to non conventional jobs, in a multicultural environment.

Enjoy challenging situations (complexity, new knowledge to acquire and new tools), taste for technical watch and theory, open minded, good capacity of synthesis and analysis, creativity, fast learner, able to cope with both overall architecture and details.

Skills

Networking	<ul style="list-style-type: none">• OSI Model, IP, IPv6, TCP, UDP, NAT• LAN: switching, FHRP, STP, Link Aggregation, VTP, ...• Tunneling: GRE/DMVPN, L2TP• Dynamic routing: BGP, OSPF, ISIS, RIP, EIGRP• QoS: diffserv, shapping, policing• Multicast: IGMP, PIM• MPLS L2 and L3 VPN• WDM• WAN Optimization• Security: firewalling (netfilter/iptables, Juniper), 802.1X, IPsec, pfSense• Manufacturers: Alcatel (Omniswitch), Bluecoat (MACH5), Ciena (6500), Cisco (ISR, ASR1k, ASR9001, Catalyst, ME3x00), Juniper (EX, MX, SRX), Mikrotik RouterOS, Riverbed (Steelhead, Steelcentral NPM), Thales (Mistral IPsec)
OS	GNU/Linux (mostly Debian and Arch – daily usage since 2004), Windows
Systems	Good knowledge of the usual tools (DHCP, DNS, LDAP, NFS, Radius, SQL, e-mail systems, web systems , ...)
Virtualization	Qemu, KVM / libvirt, Docker, Virtualbox, GNS3 – Amazon AWS
Tools	SNMP, Netflow/IPFIX (with Riverbed collector), IP SLA, Ixia IxChariot LibreNMS, Rancid, Cacti, Munin, Nagios, Smokeping, Weathermap, ... Ansible Scripting: perl, python, bash, SQL, ... Version control: svn, git
Telephony	General knowledge - VoIP (SIP, H323, Asterisk)
Process	ITIL and ISO20000 (not certified)
Personality	Taste for technical watch and network theory, open minded, good capacity of synthesis and analysis, creativity, fast learner. Enjoy challenging situations, like to think differently, unconventional approches.

Languages

French	Mother tongue
English	Proficient, daily professional usage
Spanish	Intermediate
Chinese	Beginner

Certifications

Expired certifications:

- CCNA (Cisco Certified Network Associate)

- CCIE R&S Written (2014)

- 3x Juniper Networks Certified Specialist (Enterprise Routing and Switching, Service Provider, Security)

Professional Experience

- Oct 2019 - **OVHcloud: Network Engineer**
OVH International backbone: 16 DC, 30 PoP, 20 Tbit/s internet facing capacity
Network design - Cisco, ISIS, BGP
- March 2018 – Sept 2019 **Travel to discover** those territories and people, in **between Europe and Asia**, who are not so often in the news but are in the middle of commercial and cultural routes and are of geopolitics importance.
Preparation and all along the journey: itinerary, visas, accommodation, food, transportation, communication. History, geography, **foreign languages, resourcefulness, open-mindedness, autonomy, adaptability, ...**
Discover the others, discover oneself.
Russia, *stan countries, China from west to east, Mongolia, Iran, Oman, Balkans, France
- March 2009 – March 2018 **Thales Services (Paris): Network Engineer**
Engineer at Thales Group (a world leader in mission-critical information systems for defense, security, aerospace and transportation), part of the network team (~30 people) in charge of the **Thales global network. 200 sites, 70.000 users**; ~10 business units connected together; transport of applications, telephony (VoIP) and videoconferencing services; **high complexity** due to the security imposed by the activities of the group.
- First years:
- Maintenance & deployment of the WAN (in compliance with ISO20000 & ITIL)
 - Follow-up & scheduling of all major changes occurring on the WAN (2010-2013)
- 2012+:
- Referent for routing/WAN Optimization/switching + Level 3 support
 - Global network design
 - Traffic engineering
 - Network integration
- Main projects:**
- 2015: Study of WDM in Paris area. Deployment of the first segment (Ciena 6500)
 - 2012: Renew of the Internet access used by Thales and other customers (200k users, Juniper, BGP, IPv6, RIPE NCC)
 - Renew and cleanup of the WAN accesses of the Thales main datacenter
 - Goal: overcome routing issues due to the complexity of Thales network and allow high scalability and faster deployment times
 - Close to 200 L3VPN (MPLS and PE-CE over DMVPN), start global use of BGP instead of OSPF
 - All steps from initial study to migration. One-year project.
 - 2015: split MPLS backbone in two (options A and C) to introduce Riverbed Wan Optimization
 - Automation of the WAN administration and provisioning of various tools (backups, monitoring, ...)
 - 2016: Design and implementation for interconnection to AWS for Thales IT
 - 2017: Redesign Thales WAN (several providers, L3 and L2 VPN – routing, QoS, hardware refresh, migration plan). Tight schedule driven by cost reduction
 - 6 months design – Cisco, OSPF, BGP, QoS, DMVPN
 - 6 months build – technical leader of build team:
 - solve technical issues
 - automate all configurations – python, postgresql
- Main technologies: OSPF, MPLS, BGP, DMVPN, IPSec, QoS – Cisco, Juniper – AWS – Perl, Python, SQL
- Aug. – Dec. 2008 **First Choice Internet (Tokyo, Japan): Network and System administrator**
(5 months)
- Set up of a PABX based on Yate (SIP, H323, voicemail, conference rooms, ...)
 - Development and automation of the hosting administrative tools
- 2007 – 2008 **Telecom Bretagne: study of a ToIP service based on Asterisk** for the two campus of the school and linked to the PSTN
(6 months)
- 2006 – 2007 **Alcatel-Lucent France / Nokia (Paris): Network and System administrator** (trainee engineer)
(1 year)
Internship in the technical team of 3GRC (now Executive Briefing Center), operating a platform used to demonstrate Alcatel-Lucent mobile products. Work in heterogeneous environment with many other teams of the group.
- Integration of new demonstrations
 - Reorganization of the platform (servers, IP backbone, monitoring) for more reliability and security
 - PSCN: routing improvement, set up of new equipments, troubleshooting
 - Relocation of the platform to an other site without outage
 - Technical support for events (Mobile WorldCongres, ...)
- 2004 – 2008 **ResEI (Students' network of Telecom Bretagne, member of FedeRez): Network and system administrator**
2 campus, network of 40 servers and more than 500 users.

International Experience

5-months internship in Japan (2008)
Working in an international context (since 2009)
Over the last 10 years, regular trips in Asia, Europe, South America, ... from 1 month to 9 months in a row

Education

Nov 2015	Riverbed Wan Optimization (Steelhead)
Oct 2015	Cisco Nexus routing and switching (DCUFI)
Dec 2014	F5 BigIP LTM
June 2013	Junos Security (JSEC) training
April 2012	Official Ipanema training
Sept 2011	Official Cisco BGP training
2007 - 2008	Last year student at Telecom Bretagne (formerly ENST Bretagne), a prestigious French graduate engineering school "Grandes Écoles" of telecommunication. Preparing for a <i>French engineering degree in Telecommunications and Information Technologies</i> (equivalent to a Master Degree in Telecommunications and IT). Specialties: computer networking and security Graduated in November 2008
2006 - 2007	Trainee engineer (1 year) at Alcatel-Lucent – network and system administration
2004 - 2006	Student at Telecom Bretagne. Main topics: Networks and Computer science
2002 - 2004	Classes préparatoires: intensive scientific preparation for the entrance to French engineering schools
June 2002	Scientific Baccalauréat (French A-levels) with high honors

Personal Interests

Culture, Travels	Discover people from all over the world, their culture and history
Hiking, Backpacking	