

CURRICULUM VITAE

Personal Information

Name: [Koen Diels](#)
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MBTI: INTJ



**System and Network Engineer
Trainer/Public Speaker**

Employment

2018-present [Linux Engineer](#)

Ypto NV (IT provider for the National Railway Company of Belgium)

- Replacing the existing Red Hat Satellite 6.1 with a new and highly automated Satellite 6.3
- Designing and implementing a Linux provisioning set up that is i.a. UEFI compatible
- Designing and implementing a security compliance strategy for the Linux based landscape using i.a. OpenScap

2017 [Linux Engineer](#)

KBC Securities NV

- automation using Ansible and Red Hat Satellite 6.2
- designing and implementing a security compliance strategy for the Linux based landscape using OpenScap, Rsyslog and SCOM (in accordance with SIEM/SOC)
- security hardening and patching the Linux environment
- setting up and maintaining Tomcat/Apache/Elastic stack/Play/PHP... application servers on RHEL
- setting up and maintaining the Atlassian stack (Jira, Confluence, Bitbucket)
- integrating all into the Palo Alto, F5, Vsphere, Hyper-V, Oracle ... environments

2015-2016 [Infrastructure Engineer](#)

International Post Corporation CVBA

- 14 ESXi node Vsphere cluster with VCSA/update manager/VMSA backed by two synchronously replicated Compellent (Dell SC Series SAN) through Qlogic fibre channel
- ADC environment consisting of two Sophos UTM and two Apache reverse proxy clusters
- automation using Puppet, Jenkins and Spacewalk
- backups using Netvault (tape) and Veeam (snapshot) on a dedicated StorWize RAID60 SAN

- maintaining and deploying CentOS/RHEL, Windows and Solaris machines
- monitoring 2 Checkpoint firewall clusters
- monitoring 325 hosts/2972 checks using Nagios
- monitoring a network of stacked Avaya/Nortel switches with a 160Gbit IST pair of core switches
- setting up a central SSH key management solution using GIT/Rsync/PHP
- setting up and maintaining Tomcat/Apache/R-framework/Elasticsearch/Memcached/Redis/... application servers on CentOS/RHEL

2005-2014 **System & Network Engineer**
Ampersant BVBA

- (para)virtualization using KVM, VMware, OpenVZ, Proxmox, ...
- building custom solutions (APs, CMS/webshops, displays, diskless workstation environments, ...)
- setting up AD/DC environments using Samba (afterwards started using Zentyal)
- setting up servers (mainly Linux based, some Windows), virtual PBXes (Asterisk), networks and network security for SME clients

Clients included:

Burson Marsteller, Candy Hoover, Chocolate World, D-Link, Dr. Oetker, Duval Guillaume, eServGlobal, Fischer Cobemabel, Kramer Electronics, Mercuria/Vesta, Productions Du Dragon, Rapaport, Subaru, Van Marcke, VDAB, VUB, ...

Lecturing jobs (part time/evening classes only)

2013-2015 Lecturer
CVO Willebroek
Electronics (evening classes)

2012-2013 Lecturer
Syntra AB
Network and network security; Windows; Hardware and hardware repair

2012 Teacher
SUI Lier
Relational databases, Excel, typing, HTML/CSS

Education

2007-2011 Bachelor of Electronics Engineering
Major in Telecommunications
De Nayer Polytechnic College

Internship & Thesis

2011 [2.4GHz CW beacon with GPS-locked PLL](#)
VRT & Elektro Dermo

Languages

Dutch	Mother tongue
English	Fluent (used on a daily basis)
French	Mediocre

Hobbies

Sailing; attending hacker conventions and member since 2004 of TINA (hacking society); HAM radio (licensed since 2005); soldering; stand-up comedy; repairing motorcycles and kickboxing

Strengths & goals

Able to immerse myself very quickly in unknown matter, I can easily operate in environments where little or nothing is/has been documented. I function well in a team environment, and have had up to four people working under my supervision.

My experience with SMEs includes: managerial skills, sales skills, telephony, Windows environments, **networks and UNIX-like environments**. My heart lies with the latter **two**. Having worked in SME environments for 10 years and for large enterprises for nearly 3 years, I am currently looking for **freelance** assignments within **larger companies and organizations**.

History

1998	2003	2005	2007	2009	2012	2014	2017
Age 12	Age 15	Age 17	Age 19	Age 22	Age 24	Age 26	Age 29
2001	2004	2006	2008	2011	2013	2015	2018
First Computer	Ceased private use of Windows	Started working as a Junior System Engineer @ Ampersant BVBA	Switched to Electronics - Telecommunication @ De Nayer	Added network security as a job task	Started teaching @ SUI Started teaching @ Syntra AB	Continued working for former Ampersant clients and new clients	Started working for KBC Securities
Started using Linux	Joined the loose hacker collective "TINA"	Added network engineering as a job task	Became certified in Electronics - ICT @ HA	Became a Partner at Ampersant BVBA	Started teaching @ CVO (evening classes)	Started working for IPC	Started working for YPTO
		Started studying Electronics - ICT @ HA	Became certified in Business Management (FPS Economy)	Graduated from De Nayer	Ampersant ceased to exist		
		Started studying Mechanics @ Syntra (evening classes)	Became self-employed	Took some extra courses (i.a. Oracle SQL) @ De Nayer			

Alphabetical List of Specific Skills

+	Basic	++	Good	+++	Excellent
	Active Directory	++	Since 2005	NAS (FreeNAS, Synology, ...)	++ Since 2005
	Aerohive	+	Since 2014	Netfilter	++ Since 2013
	Android	++	Since 2011	Netstat	+++ Since 2006
	Ansible	++	Since 2017	Networking Protocols	++ Since 2006
	Apache and Tomcat	++	Since 2005	New Relic	+ Since 2015
	ARP	++	Since 2008	NFS	+++ Since 2005
	arp-scan	+++	Since 2008	NMAP	++ Since 2006
	Asterisk	++	Since 2008	NoSQL (ElasticSearch, Redis, Memcached)	+ Since 2015
	Audio	+++	Since 2005	NTP	++ Since 2005
	Axway SecureTransport (AS2, FTP(s), SFTP, ...)	+	Since 2015	Open Source Software	+++ Since 2001
	backup solutions (Rsync/Rdiff, Veeam, Backup exec, BackupPC, Netvault, Idera, ...)	++	Since 2005	OpenVPN	++ Since 2008
	BASH	++	Since 2005	OpenVZ/LXC/LXD/Docker/Java/ils/Zones/...	++ Since 2008
	BIND	+	Since 2005	OSI-model	++ Since 2006
	Bluetooth	++	Since 2006	OSPF	+ Since 2006
	Bridging	++	Since 2006	PAN (Bluetooth)	++ Since 2006
	BSD	+	Since 2005	PCB Design	+ Since 2006
	Central storage solutions	++	Since 2005	Port Trunking/ NIC teaming/Link aggregation/LACP	++ Since 2006
	CIFS	++	Since 2005	Postfix	++ Since 2006
	Cisco	+	Since 2006	PPPoE	++ Since 2005
	Cluster filesystems (Ceph, LeoFS, GlusterFS, ...)	+	Since 2015	Proxies (forward and reverse; using Sophos, TMG, Apache, ...)	++ Since 2005
	Cron	+++	Since 2005	Proxmox	+++ Since 2011
	CUPS	++	Since 2005	PSTN	++ Since 2006
	Data recovery	+++	Since 2008	Puppet	+ Since 2015
	Databases	+	Since 2005	QEMU/KVM (openvirt, SmartOS, Proxmox, FiFo, ...)	++ Since 2008
	Debian	+++	Since 2003	RAID	+++ Since 2005
	DECT	++	Since 2006	Remote Desktop Applications (VNC, Teamviewer, RDP, Rdesktop, ...)	++ Since 2005
	Desktop virtualisation (KVM, Virtualbox, VirtualPC, Vmware-player, ...)	+++	Since 2005	Red Hat and derivatives RHEL/Centos/Fedora	+++ Since 2001
	DHCP	++	Since 2006	R-framework	+ Since 2015
	Dig	+++	Since 2006	Routers	++ Since 2006
	DNS	++	Since 2006	Rsync	+++ Since 2005
	DRBD	+	Since 2015	Sales	++ Since 2008

eCryptFS	+++	Since 2012	Samba	+++	Since 2005
Elastic stack (Elasticsearch, Logstash, Kibana, Beats)	++	Since 2015	SAN (Compellent, Infortrend, IBM StorWize, Nimble)	++	Since 2008
End user service	+++	Since 2005	Security protocols	++	Since 2006
Ethereal/Wireshark	++	Since 2006	SIP	++	Since 2006
Exchange	+	Since 2009	Social Engineering	+++	Since 2008
Exim	+	Since 2005	Sophos UTM (Astaro)	+++	Since 2005
Fiber solutions	++	Since 2008	SSH (Putty, Filezilla, Rsync, scp, sftp, ...)	+++	Since 2005
File Systems (and recovery)	+++	Since 2005	SSL	++	Since 2006
Firewall (Checkpoint, Sophos, Iptables, generic)	+++	Since 2001	STP	++	Since 2006
FPGA	+	Since 2006	Switches (Nortel, Avaya, Cisco, Dlink, Tplink, Netgear, ...)	+++	Since 2006
GIT	++	Since 2013	TCP/IP	+++	Since 2006
GSM	+	Since 2006	Telecom	+++	Since 2006
Hardware	+++	Since 1998	Telnet	++	Since 2005
HF	+++	Since 2005	TLS	+	Since 2006
ICMP	++	Since 2005	Trac	++	Since 2009
IPMI	+	Since 2013	Ubuntu	+++	Since 2004
Ipssec	++	Since 2008	UNIX (Solaris, Open/FreeBSD, SmartOS,...)	++	Since 2005
IPTables	++	Since 2013	UPS	+++	Since 2005
IPv6	+	Since 2013	Video	+++	Since 2006
ISDN	++	Since 2006	Virtualisation (KVM, Vmware, Xen, Hyper-V, ...)	+++	Since 2005
Jenkins	+	Since 2015	virtualPC	++	Since 2008
JIRA/Confluence (Atlassian)	++	Since 2015	VLAN	+++	Since 2006
KVM-switches	++	Since 2005	Veeam	+++	Since 2015
LAMP	++	Since 2005	Vmware (ESXi, GSX/Server, player, workstaion)	+++	Since 2005
LAN	+++	Since 2006	VNC	++	Since 2005
LDAP	++	Since 2006	VoIP	+++	Since 2006
Linux	+++	Since 2001	VPN (client/Site2site)	++	Since 2008
LUKS	+++	Since 2012	WAN (xDSL, DOCSIS, fiber)	++	Since 2006
LVM	+++	Since 2005	WiFi	+++	Since 2005
Mac OS X	+	Since 2005	Windows Client	+++	Since 1998
MAN	++	Since 2001	Windows Server	+++	Since 2011
MDADM	+++	Since 2005	WWAN	++	Since 2006
MediaWiki	++	Since 2005	XMPP	++	Since 2008
MTR	+++	Since 2006	Zentyal	++	Since 2012
MySQL/Oracle SQL/MariaDB/PostgreSQL	+	Since 2005	(Open)ZFS	++	Since 2015
Nagios/Icinga	+++	Since 2005	Zimbra	+++	Since 2012