

Personal information

Date of birth: 14/02/86
Nationality: Belgian

Education

2004-2007 Bachelor Applied Informatics
Katholieke Hogeschool Leuven

2007 RHCE (Red Hat Certified Engineer #805007190729418)

2007 Zarafa Advanced Administration Certification

2009 Puppet Advanced Engineer Certification

2010 Bacula Advanced Engineer Certification

2013 Puppet Certified Professional 2013 (PCP0000212)

Languages

Legend: level 1 to 5 where 5 is the best

Language	Reading	Writing	Speaking
Dutch	5	5	5
English	5	4	5
French	4	2	3

Technical skills

Legend: Basic / Normal / Advanced / Expert

Skill	Level	Skill	Level
Linux – general	Expert	Mysql	Expert
Linux – Red Hat	Expert (RHCE)	Other Database Solutions	Advanced
Linux – Debian/Ubuntu	Expert	Oracle	Advanced
Linux – Other	Expert	LDAP (OpenLDAP)	Expert
Bash Scripting	Expert	Monitoring (Nagios, Zabbix, ...)	Expert
Perl Scripting	Expert	Proxy (Squid)	Advanced
PHP	Expert	Apache/Lighttpd	Expert
Python Scripting	Expert	Iptables	Expert
Java Development	Advanced	Zimbra Groupware	Advanced
Bacula Backup Software	Advanced	Zarafa Groupware	Expert
Other Backup Solutions	Normal	Mailservers (Postfix)	Expert
Storage Solutions	Normal	Drupal	Expert
Networking	Expert	Puppet	Expert
Clustering	Normal	Samba	Advanced
Virtualization (Xen, kvm, RHEV)	Expert	NFS	Normal
DNS (Bind)	Advanced	Subversion, Git, Bzr	Advanced
High Availability (Heartbeat, pacemaker, ...)	Advanced	SELinux	Expert
JBoss	Basic	HTML/CSS	Expert

Experience

- 01/10/2009 – current
Linux & Open Source Consultant
Open-Future
- Technologies:** Linux & Open Source in general, Samba, Zabbix, Nagios, Xen, LDAP, Openfiler, MySQL, Oracle, Openfire, Apache, Postfix, Dovecot, Citadel, Zimbra, NFS, Selinux, Vyatta, SpamTitan, Zarafa, Cobbler – Koan, Puppet, RHEV(Red Hat Enterprise Virtualization), KVM, OTRS, Drupal, OpenKM, Squid, Horde, Bonding, ISCSI, DRBD, php, ...
- 01/01/2008 – 30/09/09
Linux & Open Source Consultant
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- Technologies:** *Linux & Open Source in general, Samba, Zabbix, Nagios, Xen, LDAP, Openfiler, MySQL, Openfire, Apache, Postfix, Dovecot, Citadel, Zimbra, NFS, Selinux, Vyatta, SpamTitan, Zarafa, Cobbler – Koan, Puppet, KVM, OTRS, Drupal, OpenKM, Squid, Horde, Bonding, ISCSI, DRBD, php, ...*
- 01/08/2007 – 31/12/2007
Service Desk – Single Point Of Contact
Uptime
- Technologies:** Linux & Open Source in general, Unix and Microsoft

Assignments

Start: 01/05/2013	End: 30/06/2013	Customer: NBN	Job: Outsourcing
Technologies: Linux, Red Hat, PHP, Apache, Mysql, Oracle			
Description: Outsourcing to NBN in relation to the MyNBN project. See below (Start: 05/10/2011, End: Ongoing, Job: Development: myNBN framework) for more information.			
Comments:			

Start: 15/04/2013	End: 26/04/2013	Customer: Northgate Arinso	Job: Puppet Consultancy
Technologies: Puppet, Git, Hiera, SLES, RHEL			
Description: Technical support and consultancy with regard to the Puppet code at Northgate Arinso (Their United States Environment). The main goal of the project was to cleanup Puppet code and make it distribution-agnostic, the same as we did in 2012 for the EU environment. Tasks included:			
<ul style="list-style-type: none"> - Prepare for upgrade from Puppet 0.25 to Puppet 2.7.x - Merge their EU Puppetcode with US Puppetcode 			
Comments:			

Start: 13/03/2013	End: 13/03/2013	Customer: KMI	Job: Intervention
Technologies: RHEV, LVM			
Description: Due to a failed upgrade from RHEV 2.2 to RHEV 3.1 KMI was experiencing issues with their RHEV environment. Together with the Red Hat support team, I helped KMI overcome these issues.			
Comments:			

Start: 07/03/2013	End: 08/03/2013	Customer: NBN	Job: Installation, Configuration
Technologies: Linux, Red Hat, Zmanda			
Description: On-Site installation and configuration of the Zmanda software (Backup Solution).			
Comments:			

Start: 27/11/2012	End: ONGOING	Customer: VRT	Job: Outsourcing
Technologies: Puppet, Chef, SLES, RHEL, OpenLDAP, Nagios, SNMP, GPFS, Samba, Cobbler, Kerberos, Munin, BSD, Xen, OpenVZ, KVM, ...			
Description: Outsourcing to two different teams at VRT. The first team is called "GMII". Their focus is the entire Linux/UNIX environment of the VRT. Within this team my tasks include:			
<ul style="list-style-type: none"> - Migration of old Puppet 0.25 code to Puppet 2.7.x compatible code - Migration of servers from Puppet 0.25 to Puppet 2.7.x - General Linux/UNIX support - General Linux/UNIX maintenance - Migration of GPFS staging and production machines from SLES to RHEL - Writing of new, and maintenance of Puppet Code - Deploys of VRT applications on all environments (development, staging, production) 			
The second team is called "O&I" (Onderzoek en Innovatie). The focus of this team is to research new technologies and innovation. Within this team my tasks include:			
<ul style="list-style-type: none"> - General Linux/UNIX support 			

- General Linux/UNIX server maintenance
- General BSD support (storage server)
- Deployment of new machines (Both Linux/UNIX and Windows)
- Maintenance of Kerberos Authentication Server (On Linux)
- Monitoring
- Writing of new, and maintenance of Chef Code
- Support and maintenance of their virtual environment (OpenVZ and KVM)

Comments:

Start: 19/11/2012	End: 30/11/2012	Customer: Idewe	Job: LVM Consultancy
Technologies: VMWare, RHEL, LVM			
Description: Technical consultancy for re-partitioning RHEL clients that are running in VMWare.			
Comments:			

Start: 02/10/2012	End: 16/11/2012	Customer: Northgate Arinso	Job: Puppet Consultancy
Technologies: Puppet, Git, Hiera, SLES, RHEL			
Description: Technical support and consultancy with regard to the Puppet code at Northgate Arinso. The main goal of the project was to cleanup Puppet code and make it distribution-agnostic.			
Comments:			

Start: 11/09/2012	End: 16/11/2012	Customer: Belnet	Job: Zarafa Installation and Upgrade
Technologies: Zarafa, Corosync, Pacemaker, Ubuntu			
Description: Installation of a Zarafa server linked with OpenLDAP. Configuration of the Zarafa server. Integration with Zarafa-archiver. High-availability configuration of Zarafa with pacemaker/corosync.			
Comments:			

Start: 29/08/2012	End: 30/08/2012	Customer: Colruyt	Job: RHEL Consultancy
Technologies: RHEL, Active Directory, Kerberos			
Description: Technical support and consultancy with regard to Active Directory/Kerberos client configuration in RHEL. Also technical support on how to fix a few AD-related issues in RHEL.			
Comments:			

Start: 04/06/2012	End: 27/06/2012	Customer: NBN, Vlaamse Overheid	Job: Infosessions & Workshops
Technologies: MyNBN			
Description: Technical support and lectures together with NBN for one of their clients (Vlaamse overheid) about the MyNBN portal written by Open-Future. (See below).			
Comments:			

Start: 05/10/2011	End: ONGOING	Customer: NBN	Job: Infrastructure Administration
Technologies: Red Hat, Puppet, Windows, Oracle, Mysql, Apache, IBM Blade, Brocade Switches, RHEV, ...			
Description: Maintenance and Administration of the infrastructure that's running the www.mynbn.be website.			

Comments:			
Start: 05/10/2011	End: ONGOING	Customer: NBN	Job: Development: myNBN framework
Technologies: Red Hat, KVM, PHP5, Mysql, Oracle, Yii			
Description: Development of a framework called 'MyNBN' (in the Yii framework) that provides normdocument's metadata overviews to NBN customers. Features include: <ul style="list-style-type: none"> • List norm documents (With ACL control) • Download norm documents (With ACL control) • Multilanguage • Online Reading Room In Flash (encrypted) • Web services • Modular (Model-View-Controller) • Single sign-on implementation for certain NBN customers • ... 			
www.mynbn.be			
Comments:			
Start: 29/05/2012	End: 01/06/2012	Customer: Commune de Seraing	Job: Installation & Migration Zarafa Server
Technologies: Linux, RHEL, Zarafa, Exchange, Active Directory			
Description: Installation of a Zarafa Groupware server to replace the current MS Exchange server. Migration from Exchange to Zarafa included.			
Comments:			
Start: 20/03/2012	End: 18/04/2012	Customer: IDEWE	Job: Linux Training
Technologies: Linux, RHEL, Bash, ...			
Description: Teacher of a Basic to Advanced Linux course (especially Red Hat, RHEL) for IDEWE.			
Comments:			
Start: 26/03/2012	End: 01/04/2012	Customer: Colruyt	Job: Linux Training
Technologies: Linux, RHEL, Bash, ...			
Description: Teacher of a Basic to Advanced Linux course (especially Red Hat, RHEL) for Colruyt.			
Comments:			
Start: 30/01/2012	End: 03/01/2012	Customer: Vormingplus	Job: Drupal Development
Technologies: Drupal, PHP			
Description: Zie www.buurtruil.be			
Comments:			
Start: 26/10/2011	End: 26/10/2011	Customer: OCMW Roeselare	Job: Image Resizer Service
Technologies: Red Hat, KVM, Bash, Inotify, Imagemagick, Samba, Kerberos, Puppet			
Description: Development of a Bash script that runs as a service and keeps an eye on a directory (recursively) with inotify. When an image gets dropped in a specific directory (e.g. 'A3'), the image will be resized to that format.			

The directories are made available to the users via a Samba server integrated with Active Directory.

Puppetizing of the configuration.

Comments:

Start: 26/09/2011	End: 26/09/2011	Customer: Probeton	Job: Installation DHCP Server
Technologies: Red Hat, KVM, DHCPD			
Description: Installation of a new virtual machine with DHCP Software & Configuration + Migration from old DHCP server to this new DHCP server.			
Comments:			

Start: 14/09/2011	End: 14/09/2011	Customer: ACEA	Job: Migration (Vmware 2 KVM)
Technologies: Red Hat, KVM, VMWare			
Description: Migration of a virtual machine from VMWare to KVM.			
Comments:			

Start: 12/09/2011	End: 12/09/2011	Customer: OCMW Roeselare	Job: Installation Virtual Machine: Easypay
Technologies: Red Hat, KVM, Easypay			
Description: Installation of a new Virtual Machine with Easypay software.			
Comments:			

Start: 06/09/2011	End: 09/09/2011	Customer: ACEA	Job: Migration (Endian Firewall)
Technologies: Endian Firewall, PFSense			
Description: Migration from Pfsense to Endian Firewall.			
Comments:			

Start: 30/08/2011	End: 30/08/2011	Customer: ACEA	Job: Virtualisation (Installation Hypervisor)
Technologies: Red Hat, KVM			
Description: Installation of 4 new hypervisors for virtualisation.			
Comments:			

Start: 22/08/2011	End: 24/08/2011	Customer: NBN	Job: Virtualisation POC
Technologies: Red Hat, KVM, RHEV, Puppet			
Description: Hands-on training for RHEV, Introduction to puppet, Deployment of new virtual machines.			
Comments:			

Start: 09/08/2011	End: 11/08/2011	Customer: ACEA	Job: Hypervisor installation, Endian Firewall Installation, Network Inventory
Technologies: Red Hat, KVM, Endian Firewall, NMAP			
Description: Setup of a new Hypervisor for virtualisation. Setup of Endian Firewall to replace Pfsense firewall. Network inventory			

with nmap.
Comments:

Start: 01/08/2011	End: 16/09/2011	Customer: N/A	Job: Zarafa7, Zarafa Archiver
Technologies: Red Hat, KVM, Zarafa7, Zarafa Archiver			
Description: Setup of an internal POC with Zarafa 7 groupware and the Zarafa Archiver software.			
<i>This was performed in between customer projects.</i>			
Comments:			

Start: 01/07/2011	End: 31/08/2011	Customer: N/A	Job: Red Hat Cluster Suite
Technologies: Red Hat Cluster Suite, Piranha			
Description: Setup of an internal Red Hat Cluster Suite & Load Balancing (Piranha) POC @ Open-Future offices. With:			
<ul style="list-style-type: none"> • Fencing (fence_virt) • Sybase HA • Custom HA script • Loadbalancing • DRBD 			
<i>This was performed in between customer projects.</i>			
Comments:			

Start: 12/07/2011	End: 18/07/2011	Customer: ACEA	Job: DRBD/QNAP Migration
Technologies: Red Hat, DRBD, QNAP			
Description: Migration of Virtual Machine data from DRBD storage to a QNAP NAS.			
Comments:			

Start: 27/06/2011	End: 05/07/2011	Customer: Colruyt	Job: Linux Training
Technologies: Linux, RHEL, Bash, ...			
Description: Teacher of a Basic to Advanced Linux course (especially Red Hat, RHEL) for Colruyt.			
Comments:			

Start: 14/06/2011	End: 21/06/2011	Customer: ACEA	Job: Zabbix Installation & Configuration
Technologies: Red Hat, KVM, Zabbix, SNMP			
Description: Installation of a Zabbix monitoring service and configuration of the ACEA network & servers in this Zabbix environment.			
Comments:			

Start: 11/06/2011	End: 16/06/2011	Customer: OCMW Roeselare	Job: Zarafa 32bit to 64bit migration
Technologies: Red Hat, KVM, Zarafa, Mysql			
Description: Migration of a Zarafa groupware server from 32bit to 64bit.			
Comments:			

Start: 08/06/2011	End: 09/06/2011	Customer: OCMW Roeselare	Job: Aware Deployment / Hypervisor deployment
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Technologies: Red Hat, KVM, Aware

Description: Installation of a KVM virtualisation environment and deployment of a Virtual Machine running RHEL(Red Hat Enterprise Linux) & Zarafa 6.40.7 test VM, for Zarafa migration test.

Comments:

Start: 01/06/2011	End: 02/06/2011	Customer: OneAccess	Job: Inventory
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Technologies: Red Hat, Linux

Description: Inventory of the OneAccess IT infrastructure as part of a Single Sign On Project.

Comments:

Start: 16/05/2011	End: 17/05/2011	Customer: NBN	Job: RHEV(Red Hat Enterprise Virtualisation) POC
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Technologies: Red Hat, KVM, RHEV, Puppet, Zarafa

Description: A Proof of Concept installation of Zarafa and Puppet and Red Hat Virtualisation on a RHEV environment for NBN.

Fully puppetizing of the NBN LAMP stack.

Comments:

Start: 19/04/2011	End: 20/04/2011	Customer: OCMW Roeselare	Job: Aware Deployment / Hypervisor deployment
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Technologies: Red Hat, KVM, Aware

Description: Installation of a KVM virtualisation environment and deployment of a Virtual Machine running RHEL(Red Hat Enterprise Linux) & AwareIM software.

Comments:

Start: 04/04/2011	End: 08/04/2011	Customer: ACEA	Job: Migration
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Technologies: Linux, Red Hat, ...

Description: Migration from collocation servers to internal office range.

Comments:

Start: 28/02/2011	End: 28/02/2011	Customer: VCLB	Job: Samba Upgrades
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Technologies: Samba, OpenLDAP, Windows

Description: VCLB is receiving new laptops with Windows7 within a short period of time, the current version of Samba they are running does not work with Windows 7 clients joining the domain.

My Job was to perform upgrade tests to the newest version of Samba which allows Windows 7 clients to join the domain, and perform the upgrade.

Comments:

Start: 02/2011	End: 02/2011	Customer: Open-Future	Job: Vtiger2LDAP script
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Technologies: Vtiger, LDAP, Zarafa, PHP			
Description: Open-Future is running the Vtiger CRM Software and the Zarafa Groupware software. They needed an integration between these 2 software systems. The software must be able to synchronise Vtiger contacts to a Global Address Book in Zarafa.			
To accomplish this, I developed a script in PHP which synchronises the Vtiger contacts to the LDAP contact tree so it can be read by Zarafa, and published in the Zarafa GAL(Global Address List).			
Comments:			

Start: 01/01/2011	End: 30/04/2011	Customer: Vormingplus	Job: Website Development
Technologies: Drupal, PHP			
Description: Vormingplus Antwerpen is developing a website to build an online community where people can register and trade goods and services with people in the same neighbourhood .			
Open-Future is building this project completely on top of a Drupal 6 stack, as a technical consultant I developed this site on top of a Drupal 6 stack. Also some PHP development was done with some custom Drupal modules.			
Comments:			

Start: 07/02/2011	End: 11/02/2011	Customer: Gemeente Nazareth	Job: Exchange to Zarafa Migration
Technologies: Zarafa, LDAP, Active Directory, Mysql, Postfix, Ubuntu			
Description: Migration of a current Exchange situation to the Zarafa Groupware solution. (~80 users)			
Comments:			

Start: 11/2010	End: 11/2010	Customer: Open-Future	Job: OTRS Client SLA Module
Technologies: OTRS, Perl			
Description: Open-Future uses prepaid support contracts. This allows customers to buy blocks of "Support Hours" which can be used when support is needed. My job was the development & integration of a OTRS module that supports the adding of "Support Blocks" on a per customer basis, and the tracking of how much of a "Support Block" is already used for that customer.			
Comments:			

Start: 19/10/2010	End: 16/11/2010	Customer: KMI	Job: Red Hat Enterprise Virtualisation (RHEV)
Technologies: Red Hat, RHEV, KVM, iSCSI, Multipath			
Description: Installation, configuration, and knowledge transfer RHEV environment.			
Comments:			

Start: 17/07/2010	End: 26/07/2010	Customer: Digipolis	Job: Standby + Proactive Monitoring + Tuning
Technologies: Apache2, Mysql, Zabbix, Tomcat			
Description: Standby and proactive monitoring of gentsefeesten.be web & database servers during gentse feesten 2010.			
Comments:			

Start: 03/05/2010	End: 21/05/2010	Customer: SVK	Job: Exchange to Zarafa Migration
Technologies: Zarafa, LDAP, Active Directory, Mysql, Postfix, Red Hat			
Description: Migration of a current Exchange situation to the Zarafa Groupware solution. (~100 users)			

Comments:			
Start: 05/04/2010	End: 09/04/2010	Customer: Probeton	Job: Zarafa Upgrade/Migration
Technologies: Red Hat, Bash, Zarafa, Mysql, Postfix			
Description: Upgrade of Zarafa to a higher version. Migration of Zarafa database to a newer database, with attachments stored outside of the database.			
Comments:			
Start: 01/2010	End: 01/2010	Customer: Open-Future	Job: Puppet Integration
Technologies: Red Hat, Debian, Ubuntu, Puppet			
Description: Installation, configuration, and integration of Puppet on the Open-Future internal systems.			
Comments:			
Start: 12/2009	End: 12/2009	Customer: Open-Future	Job: KnowledgeTree Installation
Technologies: Red Hat, KnowledgeTree, Mysql			
Description: Installation & Configuration of the KnowledgeTree Document Management System Software.			
Comments:			
Start: 01/10/2008	End: 31/10/2009	Customer: Kanselarij v.d. Eerste Minister (Via Siemens)	Job: Linux and Unix System Administrator / Linux and Unix Projects
Technologies: Solaris, CentOS, SuSe Linux, LDAP, kickstart, bash, perl, python.			
Description: Setup development and production environments. Disaster Recovery Projects for SuSe Linux and Solaris. LDAP integration for Development and Production Environments. Bash, Perl, Python scripting and other general Linux and Open Source Administrator Tasks.			
Comments:			
Start: 14/04/09	End: 17/04/2009	Customer: Galva Power	Job: Installation and Configuration of Proxy server.
Technologies: CentOS, squid, dansguardian, sarg, samba, NTLM, Kerberos.			
Description: Installation of a Squid proxy server with statistics (sarg) and security (dansguardian). SSO capabilities (kerberos and NTLM).			
Comments:			
Start: 01/07/2008	End: 30/09/2008	Customer: Ugent (University of Ghent)	Job: Perl , Python Scripting and Development
Technologies: Red Hat 5, Perl Scripting, php			
Description: Perl scripting for a unified LDAP directory for the AUGENT (Association of Universities of Ghent). The Perl scripts are developed for gathering, testing and unifying LDAP data and merging this data together into a unified LDAP directory.			
Also other scripting projects in different languages (Perl, Python, PHP) were performed.			
Comments:			
Start: 01/06/2008	End: 31/07/2008	Customer: FedICT (Via Siemens)	Job: Linux/Apache Infrastructure

Technologies: Red Hat 5, Netapp, OCFS2, Xen
Description: Assistance in a high availability setup for FedICT to run government websites on.
Comments:

Between projects		Customer: ACEA	Job: Migration to KVM
Technologies: Red Hat, CentOS, ubuntu, vmware, KVM.			
Description: Install 2 new servers with Ubuntu and do a Proof Of Concept migration from vmware to kvm.			
Comments:			

Start: 19/05/2008	End: 23/05/2008	Customer: Borgerstein	Job: Install linux servers with Drupal.
Technologies: CentOS, Red Hat, drupal, mysql, vmware.			
Description: Installation of virtualized development and production servers. Installation of Drupal on these servers.			
Comments:			

Start: 08/05/2008	End: 15/05/2008	Customer: CLB (Centrum Leerlingbegeleiding)	Job: Installation of Linux, Configuration of gateway / groupware.
Technologies: CentOS, OpenLDAP, Alfresco, Squid, Squidguard, named, openvpn.			
Description: Installation of 2 servers per Location (On 3 Locations). 2 types of servers:			
1. Gateway: CentOS server with openvpn, squid, squidguard, named, openldap.			
2. Groupware: CentOS server with Alfresco.			
Comments:			

Start: 01/04/08	End: 30/04/08	Customer: Siemens	Job: Linux/Apache infrastructure setup
Technologies: RHEL 5, Netapp, OCFS2, Xen			
Description: Siemens designed a high availability setup for FedICT to run government websites on. I helped implement and deploy the Virtual Linux servers that power this setup and the OCFS2 connection that allows load balancing while using the same backend storage.			
Comments:			

Start: 04/02/08	End: 22/02/08	Customer: FedICT	Job: Installations
Technologies: Red Hat 4, WebSphere, Tridion			
Description: Installation of Websphere on Red Hat, monitoring and startup scripts in assignment for Siemens			
Comments:			

Start: 28/01/2008	End: 30/01/2008	Customer: FilmMagie	Job: Backup Restore + Fix Backup Script
Technologies: Red Hat, Bash, Rsync.			
Description: FilmMagie had problems with a Backup script written in the past. I was hired to fix these problems.			
Comments:			

Start: 14/01/2008	End: 16/01/2008	Customer: Federale Politie	Job: Analysis of Red Hat server and Oracle OCS.
Technologies: Red Hat, OCS.			
Description: FedPol was experiencing some performance issues and asked an analysis of their servers and the applications running on it.			
Comments:			

Start: 03/2007	End: 06/2007	Customer: Option	Job: Internship
Technologies: Perl, GPIB, GSM Protocol.			
Description: In 2007, I did an Internship at Option for my education at the KHL Dept. Rega. My job at option was to write Perl scripts for their Perl based testing tool called GOAT(General Option Automated Testing Tool) which was also written in Perl. These scripts ranged from simple Perl scripts that tested roaming, to rewrites of parts of the automation tool. An example is the implementation of the GPIB protocol that was rewritten by me to support a GPIB USB to Ethernet switch. This allowed them to run more than one test overnight.			
Comments:			