

Bobbaers Rik
Eugeen Vanhoorenbekelaan 25 bus 11
3010 Kessel-lo
gsm +32 485 52 71 50
e-mail rik@enzoverder.be

I'm Rik Bobbaers, master in computer science with over 6 years of experience in hardware, unix/linux, network, security administration and IT architectural fields.

I was born on 13th September 1980 in Hasselt

Professional experience/accomplishments

- 2008 – now: Crossroads Bank of Social Security
 - System administration of an SOA infrastructure, designed by IBM
 - Infrastructure, systems, network and security architect. Especially detecting and fixing problems that were not foreseen in the initial (IBM)design.
 - Installations of WebSphere, DB2, TSA, heartbeat, ...
 - Network administration, routing, securing, design,...
 - Security aspects, design, fire-walling, backups, monitoring, ... of all the systems
 - Primary administrator of the entire TSM infrastructure
 - Administrator of storage servers and SAN environment (DS4800, brocade switches,...)
 - Virtualization of IO on IBM P-series machines (VIO server)
 - GFS2 file-server cluster installation and daily maintenance
 - Hardware troubleshooting and disaster recovery
- 2005 – now: linux-vserver
 - Developer and maintainer of grsec rediff
 - Debugging of linux kernel, grsecurity/pax and linux-vserver
- 2003 – 2008: System administrator at KULeuven (LUDIT)
 - Installing, securing and maintaining linux systems (grsecurity etc)
 - Implementation of a firewall system for all linux system (own design)
 - Installing, securing and maintaining AIX systems
 - Configuring firewalls and routing on the systems (linux, AIX, BSD)
 - Administration of IBM TSM server
 - Some storage administration (ESS, DS8100, NetApp,...)
 - Responsible for security at infrastructure, design and system level
 - Visualization at different levels (ESX, linux-vserver, ...)
 - Administration of blackboard at KULeuven and association, a virtual learning environment for students (blackboard/piranha,...)
 - Hardware troubleshooting and disaster recovery

Degrees

- **Secondary school:**
degree in Science-Mathematics (8u) achieved at the Sint-Jan Berchmanscollege in Genk in 1998 (The first four years, I studied Latin).
- **University:**
Master in Computer Science achieved at KULeuven in 2003.
Thesis: development of a reusable software platform for a mobile robot platform, using QNX Real-time OS. Together with Wesley Daemen (ir. Computer science), I developed a reusable software platform for mobile robots, that runs on QNX (but it is almost completely platform independent). We used Corba and Real-Time Corba. All the code is written in C++. My task

was mainly studying QNX, software architectures for robots and the artificial intelligence part of the robot.

- **Others:**

Lifeguard achieved in 1998 and awarded by Vlaamse Redderscentrale from Hasselt.
Sous chef since December 2008 at VTI Leuven.

Extra training courses

- IBM Tivoli Storage Manager 5.2: total integration course (04/2004)
- Linux Kernel Internals at AT Computing (NL) (03/2005)
- Linux Device Drivers at AT Computing (NL) (06/2005)
- CFEngine basics and advanced at Sane congress (NL) (05/2006)
- VMWare ESX Install and Configure (03/2007) (no certification at the moment)

Languages

Dutch is my mother tongue.

English is fairly good, comprehension as well as reading and writing.

French is good. I speak French in my current job all day, so it's getting even better every day.

German is also fairly good, mainly because of the numerous times I went to Germany for all sorts of reasons.

Congresses and others

- 21c3: 21st Chaos Community Congress in Berlin (12/2004)
- What The Hack open air congress in the Netherlands (07/2005)
- 22c3: 22st Chaos Community Congress in Berlin (12/2005)
- SANE congress in the Netherlands (05/2006)
- 6th place in the Cypher capture the flag with the KULeuven team (14/7/2006)
<http://www.cipher-ctf.org/cipher2.final.php> (the electronic mayhem)
- 23c3: 23st Chaos Community Congress in Berlin (12/2006)
- now and then: belhack.com, FOSDEM, l2u (Leuvense Linux Usergroup)...

(pre-) Professional experience

- 4 years system administrator for ULYSSIS (a unix/linux user group for students of KULeuven: <http://www.ulyssis.org>). I was responsible for some user machines (200+ users), web servers, file servers, general maintenance, the security policy (firewall) and help desk.
- 2 years I worked as a student at the help desk of LUDIT (Leuvense Universitaire Dienst voor Informatica en Telematica). My job was repairing internet for people that couldn't be helped over the phone.
- 4 years as a lifeguard at an open air swimming pool, called de Krieckaert in Gellik-Lanaken.
- Further education to become a chef, it's a hobby and I like to eat good food.
- An extended wine course to finally become a sommelier.

Computer knowledge

- **Security:**
 - Securing servers with pax/grsecurity, firewalls (pf, iptables, ipchains,...)

- Finding and exploiting software bugs
- Reverse engineering (just for the fun, analyzing how things work, compilers, programs, ...)
- Linux kernel programming/analyzing (eg. grsecurity and vserver patches rediff for standard Linux kernels, analyzing of SCSI and device mapper drivers etc)
- Short: everything involving architectural, technical and design issues of security in a company
- **Operating Systems:**
 - Linux (numerous different flavors)
 - OpenBSD, FreeBSD, NetBSD, other BSD variants
 - AIX (and VIO server)
 - MS Windows
 - QNX (it's been a while)
 - Some Solaris and HP-Unix.
- **Programming languages:**
 - C (user land as well as linux kernel code)
 - Perl
 - bash, tcsh, ksh,sh,...
 - C++ (used for my thesis (together with TAO, a RT corba implementation)
 - Some knowledge of Java (a little outdated)
 - A bit of Eiffel, C# and pascal
- **Networks:**
 - Defining the best architecture for network design according to specific needs
 - Fire-walling and routing of KULeuven servers
 - Some configuration and administration of Cisco network equipment
 - Design and administration of management networks for the server park
 - Setup of networking for the 24 hour running contest at the KULeuven.
 - Networking of ulyssis (a linux/unix student group)
- **Computer architectures:**
 - i386 (from i386 to i686, x86_64, emt64, ...)
 - IBM PowerPc
 - HP-PARISC
 - DEC Alpha
 - A bit of Sun, mips, Apple PowerPC.
- **Software:**
 - Standard linux softwares and numerous other open source softwares available.
 - IBM Tivoli Storage Manager
 - IBM Tivoli Monitoring Software
 - Some Websphere, DB2, TSA, ITM etc.
- **High Performance Computing:**
 - Since the beginning of 2004, administration of the HPC infrastructure at KULeuven
 - 300+ nodes, gigabit + infiniband, drbd, heartbeat, etc.
- **Hardware disaster recovery:**
 - Fix broken hardware (drinks spilled on a laptop,...)
 - Recovery of data on broken media
 - Replace components on pcbs

Interests and hobbies

I like swimming (6 years of competition swimming, for now its just a hobby to stay in shape). I also like to play table tennis. Also, I was a member of youth movement (KSA Zutendaal) for 8 years. I used to go to work everyday by bike when working in Leuven. Since I work in Brussels, it's a bit farther (30km), so it's not so often. Since September 2009, I play in the Rugby Club Leuven twice a week.