Curriculum Vitæ

Davide Gerhard

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Personal Data

Name	Davide Gerhard
Address	Via Prodolone 21, 33072 Casarsa della Delizia (PN), Italy
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Education

*d*uring 2014	Master Degree in Computer Science at the Department of Information Engineering and Computer Science, University of Trento.
*J*ul, 2012	Bachelor Degree in Security of Computer Systems and Networks at the Department of Computer Science, University of Milan, with final result of 105/110.
*J*ul, 2006	High school diploma in Informatics at I.T.I.S J.F.Kennedy

Thesis

during 2014	D. Gerhard. Routing in software defined networking (title not definitive), 2014
2012	D. Gerhard. Protocollo ip versione 6: vulnerabilità e attacchi, 2012

Professional Experience

2013	**Tutor at University of Trento**
	Five months in which I helped students from first and second year in Informatics to understand C/C++, OCAML and some network arguments.
2005–today	**IT Consultant**
	I worked as consultant for SMEs and multinational corporations acting as *NIX and network (security) expert.
2004–today	**Infrastructure Manager**
	During all these years, I managed very different kind of infrastructures: from mail clusters to virtualization environments. In the last years, I also managed a little WISP.
2004	**Stage at the NOC of Electrolux Italia**
	During the stage, I built a simple internal ip manager in PHP and MySQL and I understood how a very big company manage their IT and Security assets.

Activities

2011–today	Proxy maintainer at Gentoo Linux (gentoo.org);
2005–today	Contributor and author of severals Free Software projects;
2004–2012	Active member of Pordenone Linux User Group.
	Infrastructure maintainer; Event coordinator; Speaker.

Interests

Information Security
Free Software and Open Source in particular Gentoo and OpenBSD.
Operating Systems: I am nuts on the complexity and (sometimes) the simplicity on how an Operating System works, in particular the kernel space.
Networking: already when I was a child I was fascinated in how the humanity can transmit information from one place to another with the time of propagation that is approaching to light speed. Even now, I am very excited when I send an icmp packet to the other side of the globe and the destination answer me.

Skills

Security: Penetration testing, hardening and auditing on *NIX OS, Forensic analysis.
Programming Languages: ISO C, C++, Java (J2EE, ORM), OCAML, Lua.
Scripting Languages: Posix Shell, ZSH, Sed, Python, PHP.
Markup Languages: LaTeX, HTML, XML, XSLT, CSS, SQL.
Databases: Mysql, MariaDB, PostreSQL.
Operating Systems: Linux from twelve years (in particular Gentoo and Debian), OpenBSD, FreeBSD, Microsoft Windows (3.0 to 2012) and Solaris.
Daemons/Applications
Web: Apache, Apache mod_security, Lighttpd, Nginx-naxsi, Cherokee, Hiawatha, UWSGI, Varnish;
Mail: Postfix, Dovecot, Sympa, Policy-spf, OpenDKIM, Mailman, Zimbra, OpenSMTPD, Postgrey;
Virtualization: Container (openvz, lxc), Paravirtualization and Hardware virtualization (Xen, KVM, Vmware) and library as libvirt;
DNS: Bind, Mydns, PowerDNS;
Storage: Samba, NFS, Vsftpd, Proftpd, OpenSSH;
VoIP: FreeSWITCH, Asterisk, Hylafax;
Network: PF, Carp, Netfilter, tc, Cisco IOS, Mikrotik Routeros, OpenWRT;
Network Security: Snort, ACID, Prelude, Fail2Ban, OSSEC;
Monitoring: Zabbix, Cacti, Ntop, Munin, Monit, Nagios, MRTG, Syslog-ng, Rsyslog;
Authentication: Kerberos, LDAP, Freeradius, Microsoft ADS, pam.
Embedded: Yocto, Ethersex, Atmel AVR environment, Etherboot/Coreboot.
Documentation and Tracking: MoinMoin, Dokuwiki, Mediawiki, Git, Bugzilla, OTRS.

Languages

Italian	Mother tongue
English	Quite fluent
French	Fair