
Berk Ulsoy <berk@ulsoy.org>
Snr. Linux/UNIX System Engineer (Computer Engineer)

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<http://blog.ulsoy.org/>

Certification

- Sun Certified System Administrator
- Sun Certified Network Administrator
- Oracle Database SQL Certified Expert
- Oracle Certified Associate
- Microsoft Certified System Administrator
- Microsoft Certified System Engineer
- Microsoft Certified Database Administrator

Skills

Operating Systems and Databases:

- *Operating Systems:* Linux (1997), Solaris (1997), Tru64 (2007), Windows (1994-2006)
- *Databases:* MySQL 3.x/4.x/5.x, Oracle 8i/9i/10g (RAC, Replication), PostgreSQL 8.x, Microsoft SQL Server 2000 (not after 2005)
- *Networking:* Extensive knowledge on TCP/IP and ethernet based protocols. eg: HTTP, SIP, FTP, SMTP, IPsec, IMAP, POP3, RADIUS, ARP/RARP, DHCP, BOOTP

Services:

- *Web Servers:* Apache, Microsoft IIS
- *Mail Servers:* Postfix, sendmail, exim, qmail, Mailsite, SPF
- *Mail Scanners:* Spamassassin, Mailscanner
- *File Services:* NFS, Samba (CIFS/SMB), proftpd, vsftpd, DFS, AutoFS
- *Print Servers:* CUPS, lprNG
- *Proxy Servers:* Squid, Microsoft ISA Server 2000/2004
- *Firewall - VPN:* iptables, Fortigate, Checkpoint NG (not after 2004), openvpn, ipsec, ipf (basic)
- *LDAP Servers:* openLDAP, Iplanet Directory Server
- *Name Services:* NIS
- *DNS Servers:* BIND 4.X/8.X/9.X, powerdns
- *Monitoring:* Nagios, MRTG, cacti, RRDTool
- *Versioning:* RCS, CVS, Subversion, Git
- *IDS:* Nessus, Snort, nmap
- *Virtualization:* linux-vserver, VMWare ESX, Xen (basic), OpenVZ, KVM
- *VOIP Systems:* Alcatel-Lucent 5020 Carrier Grade Softswitches, ACME Packet Session Border Controller (Beginner)
- *RAID and volume systems:* Solaris Volume Manager, Linux Logical Volume Manager (LVM), Linux dm-raid/MD, Microsoft Dynamic Disks, Sun StorEdge, Veritas volume manager, HP MSA disk arrays, Tru64 LSM
- *Network Devices:* Cisco switch and routers (Basic)
- *Others:* Sun Cluster, TruCluster, RedHat Cluster Services, Linux Virtual Server (LVS), IP and I/O multipathing, PAM, GFS, heartbeat, Django, Turbogears2, kannel (high performance sms/wap gateway), protocol tracing, extensive knowledge on open source software, performance tuning using kernel internals, database engine internals and tcp/ip parameters, \LaTeX

Programming Environments:

- *Programming Languages:* Java, PHP, C, Python, Perl, Delphi, Pascal. Also familiar with C++, Ruby, x86 Assembly, Visual Basic
- *Programming Tools:* GCC, Sun Compiler Collection, Visual Studio (6.0/97), Eclipse, Vim, Emacs, gdb, pstack, ladebug, Borland Jbuilder (not after 2000)

Work Experience

Alcatel-Lucent Bell N.V - Operations at Kalix Venture, Bell Labs *Jan, 2010 - now*

Operations and platform support for the game changing P2P network optimization product

- Operations support for all production, test and development hosts, Amazon EC2 hosts and network environment
- Platform design
- Development of platform and central management portal, scripts, whatever needed

Alcatel-Lucent - Network Design Integration & Operation *Jul, 2009 - Jan, 2010*

In Alcatel-Lucent era acting as THE wildcard engineer, provide hardcore UNIX expertise, DBA profession, network troubleshooting and programming

Decision maker for platform and topology designs

- Create, provide self management scripts and tune MySQL server for AVEA (GSM operator) in order to store +100 million rows monthly, 1.5TB foreseen yearly with purging old data
- Wrote Python based parametric application for detailed network inventory collection (All types of UNIX flavors, network devices, signalling devices) using ssh/telnet and create CSV/HTML reports
- Responsible for design of hardware/software/network, implementation and tuning of 20 TB PostgreSQL database + 100TB file storage + 30 servers for Turk Telekom network management system with complete deployment and monitoring solutions
- Responsible for interviewing and proposing an SAN (Storage Area Network) solution as well as designing platform and network that will be connected to it

Alcatel-Lucent - NGN International L3 Support Engineer *Jan, 2007 - Jul, 2009* **(R&D)**

- Kernel and network stack level operating system tuning, troubleshooting and kernel crash analyses for Linux, Solaris, Tru64 based systems (More than 300 IPVS, Sun Cluster and TruCluster worldwide)
- Volume management of clusters using Veritas VxVM, SVM, Advfs, LSM, LVM
- Create 4 node Linux GFS + IPVS cluster with multimaster MySQL replication, OpenVZ virtualization and Nagios + Cacti with management scripts for Mobile Number Portability Project
- Create and proposed Nagios + Cacti based monitoring solution for situations that need more than SNMP ever can
- Troubleshooting and performance tuning for single and replicated MySQL 5.1 clusters (not NDB), Oracle 8i/9i/10g with RAC and multimaster replication
- Network trace analyses to find RFC compliancy and interoperability issues in SIP, HTTP, SOAP, MEGACO, RTP and RADIUS protocols
- Writing ad-hoc tools for specific customer needs
- Instruct internal courses for juniors
- 7/24 on-call weekly rotation for customers like British Telecom, Wind, Telenor, T-Sytems, Bezeq, Telstra, Telmex, Copaco, France Telecom, Orange, Vodafone, AT&T, Turk Telekom

Parkyeri A.S - Support Group Supervisor*Apr, 2006 - Jan, 2007*

In this term, Parkyeri has been selected as the fastest growing internet company for the last 5 years in Turkey

- Leading and performance evaluation of support group, production planning, support and coding for products, installation management and performance tuning of over 130 Linux/Solaris servers
- As a unique feature of Parkyeri, a team leader is chosen by the employee votes and can hold the position for at most 6 months

Kuleli Military High School - IS Officer*Jul, 2005 - Apr, 2006*

Kuleli is the oldest and most respected military high school in Turkey and I completed my compulsory service here

- Central management of over 500 desktop pc, 12 Windows 2000/2003 Servers with 4 domains, 160 printers
- Coding of an online education portal using PHP and commanding an armed squad

Parkyeri A.S - System Administrator*Jan, 2004 - Apr, 2005*

Parkyeri is the leading software development company with its unique products and work style. The product portfolio includes value added services for Turkcell, e-commerce sites and Web 2.0 based sites. The company is unique in Turkey in terms of aggressively embracing and promoting Free Software

- Supporting and coding for products, installation, management and performance tuning of over 100 Linux/Solaris servers spread over 2 offices, 3 ISP, 2 GSM operators (Turkcell (Over 30 million subscribers), Life-Ukraine), and Genpa (Mobile phone seller giant in Turkey)
- Implemented monitoring and performance visualization system by checking 280 nodes using Nagios and Cacti with hand written tools (Alerts with e-mail and SMS)
- Manage services that include highly utilized sms servers (millions of SMS per day), e-commerce services, mail servers supporting user customizable server side spam filters (Exim, Postfix, Horde), web (Apache-PHP, Squid, Pound), dns (BIND), development and application servers (Subversion, Tomcat, JBoss)
- Management of Linux based diskless client network (25 clients and 4 terminal servers), multimaster corporate file system replication (unison)
- Security checking via Nessus, nmap and snort
- Iptables and shorewall configurations of firewalls

Executrain Education Services - Freelance Instructor*Sept, 2003*

Instructing Windows 2000 Server and Active Directory course for a media group's system administrators.

BNET (Borusan Telekom) - System Administrator*Mar, 2003 - Aug, 2003*

BNET is one of the most important players among ISP

- Support for ISP services (apache, IIS, bind, sendmail, Mailsite), management installation and performance tuning of both ISP and customer servers
- DBA of MySQL, MSSQL, Oracle systems
- Firewall management (iptables, Checkpoint)

Freelance - System Administrator*Nov, 2001 - Mar, 2003*

- Installation and troubleshooting of various services, mainly LAMP and e-mail.
- Writing PHP based small sites

Koc.net - Unix System Administrator*Sep, 2000 - Oct, 2001*

Koc.net is a huge ISP that targets commercial customers

- Support for ISP services (apache, qmail, bind, irc), installation, management, performance tuning for over 70 Solaris/Linux servers
- DBA for some Oracle and MySQL servers

IDG - Freelance Writer

2001

Freelance technical writer for several issues of PCWorld and ComputerWorld magazines.

Marmara U. Dept. of Computer Engineering Student/Research Assistant Nov, 1996 - Jun 2000

Instructing core CSE courses, management of faculty network, 10 servers (Solaris 2.4/2.5.1, Linux (1.3), Windows NT4/2000 domain, faculty mail (sendmail/iPlanet) and web servers (apache/iPlanet)) and computer labs consisting 150 pc.

Courses Given

Introduction to TCP/IP Alcatel-Lucent - Sept, 2007

Introduction to Linux Alcatel-Lucent - May, 2007

Microsoft Windows 2000 Server and Active Directory Executrain Education Svc. - Sept, 2003

Introduction to Solaris Operating Environment Koc.net - May, 2001

Marmara U. Dept. of Computer Engineering July, 1997 - June, 2000

Algorithms (Pascal)
C Programming Language (C)
Computer Networks (Java)
Computer Organization I (x86 Assembly)
Data Communications (Java)
Information Systems Analysis & Design (Java)
Open Systems Networking (Java)
Operating Systems I & II (C - C++)
Principles of Programming Languages (Java)
Visual Basic Certificate Course (2 Terms)

Courses Taken

- Total Quality Management - Marmara U. Faculty of Engineering 1999
- SA-400 Solaris Performance Tuning - KocSistem 2000
- Korn Shell Programming - KocBryce 2001

Education

- *B.Sc. Computer Engineering - Marmara University* June, 1999 *Thesis: Distributed Collaborated Project Management Tool with JAVA-RMI*

Organizations

- Free Software Foundation

Seminars

- *Licenses, Patents, Free Software and Commerce* Marmara U. Computer Engineering, Nov. 2006
- *Licenses, Patents, Free Software and Commerce* Bilgi U. Computer Science, Dec. 2006
- *Licenses, Patents, Free Software and Commerce* Bogazici U. Computer Engineering, Dec. 2006
- *World of VOIP* Marmara U. Computer Engineering, Apr. 2009
- *Linux in Enterprise* Marmara U. Computer Engineering, May. 2009

Personal

- *Date of Birth:* November 22, 1977 Istanbul/Turkey
- *Marital Status:* Married, with a child
- *Driving License:* B