

# Aleksandar Bilanovic

UNIX System Administrator at Sun Microsystems Inc

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## Summary

I have substantial experience with UNIX and Linux system administration, troubleshooting, tuning and automation. IBM Data Storage, IBM Storage Volume Controller, Brocade SAN Switches, NetApp NAS, IBM TSM (Tivoli Storage Manager).

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## Specialties

Solaris, Linux, FreeBSD administration, knowledge of Shell scripting (sh, ksh), networking (in general and UNIX/Linux in particular), services migrations, services integrations, Linux clusters, SAN, enterprise backup solutions and general knowledge about managing information technology infrastructure

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## Experience

### **Senior UNIX and Storage Engineer at LHS Telekommunikation GmbH & Co. KG / Ericsson AB**

December 2009 – Present (1 year 7 months)

Linux and UNIX (Solaris/Tru64/AIX) general administration and troubleshooting. LVM administration. NIS server administration. NetApp (IBM N Series) NAS administration. IBM DS5100, DS4800, DS4700 and V7000 System storage administration. Brocade SAN switches (fabric) administration (zoning and monitoring) and planning. SAN planning and provisioning. IBM SAN Volume Controller (SVC) administration and planning. BVQ (Business Volume Qualicision) – SVC Reporting and Analysis. Client systems IO multipath driver setup and configuration. Capacity management. IBM TSM (Tivoli Storage Manager) backup administration and planning. IBM TS3310 Tape Library administration and planning. Nagios monitoring.

### **Release Engineer / Platform Engineer at Vast.Com Inc**

September 2008 – December 2009 (1 year 3 months)

Setting up release and distribution process for some of the software products. Standardizing, documenting and automating Linux server deployment. Writing large-scale software deployment scripts in ruby. Documenting companies' API. Writing API tests in Scala. General Linux/Unix administration and troubleshooting. Xen virtualization and Eucalyptus cloud computing management. Services monitoring (Nagios/Munin).

## **Java Enterprise System Compatibility QA / UNIX System Administrator at Sun Microsystems Inc**

April 2006 – September 2008 (2 years 5 months)

Testing Java ES (SunONE) in post integration with emphasis on interoperability between remote components and upgrade / migration procedures – compatibility (customer scenarios). Troubleshooting, bug reporting, automating processes, contributing to upgrade / migration guide (docs.sun.com) and helping with tests specifications regarding directory server. Access Manager and Directory Server clusters. 30% of time working as system and network administrator for group's 350 testing and production machines. Tasks: firmware upgrades, troubleshooting software (dtrace, mdb) and hardware problems, updating/patching software, initial installations, reconfigurations, resources and security administration, ZFS and zones configuration, backups, unattended Solaris and Java ES installations using JET - JumpStart Enterprise Toolkit (flar images), network management (DNS, NIS), network monitoring (nagios), iSCSI, xen and Idoms (virtualization). Hardware: v880, v440, v240, v210, v20, x4600, x4100, x2200, x2100, v65, v60, Blade 1600, 280R, T2000, StorEdge T3, T4, 3310/3320 (JBOD).

## **Linux Instructor at Computer Equipment & Trade (CET)**

April 2004 - March 2006 (2 years)

Teaching LPIC (Linux Professional Institute Certification). Learned how to explain complicated stuff using simple language and how to work/get along with different people.

## **UNIX System Administrator / Linux Cluster Developer at South Environment and Weather Agency / Meteos, GmbH**

November 2002 - April 2004 (1 year 6 months)

*Project 1 (Belgrade, November 2002 - September 2003):*

Developed 9 nodes Linux Beowulf cluster for ETA weather forecast model. Wrote XML configuration based scripts for automated cluster topology reconfiguration. Wrote documentation using DocBook. Also performed systems administration duties 35% of the time. Technologies: Portland Group PGI, MPI

*Project 2 (München, September 2003 - April 2004):*

Server migrations. Daily task included administration of over 40 Linux (Debian / RedHat / Suse) servers and several Sun's servers running Solaris 8. Primary task was to administer Linux Beowulf cluster which was running ETA forecast model, and satellite computers that were computing data for pre processing and post processing for this system. Most of the services were time critical. LAN/WAN administration including several Cisco routers. Implemented rsync based backup system for Linux servers and database fail-over system. Implemented SNMP (rrdtool) for network management/monitoring.

## **UNIX System Administrator at R.Ø.S.A. Internet Concept and Creation, AG**

June 2001 - September 2002 (1 year 4 months)

Performed administration and maintenance of the company's UNIX systems and internal and external networks (Cisco routers and 3com VPNs). Implement SNMP and rrdtool for extensive network management. Daily tasks also included remote administration of customer's web (apache), mail (postfix, qmail) and database (mysql, postgresql) Linux servers.

## **UNIX System Administrator at Institute for the Application of Nuclear Energy (INEP)**

November 2000 - June 2001 (8 months)

Migration from Windows NT 4.0 to FreeBSD servers. Daily tasks included administration of FreeBSD and Linux mail, web, database server and some shell programming. Rebuilt network from the ground. LAN administration including Cisco access servers. Implement SNMP for extensive network management.

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## **Education**

### **Faculty of Electrical Engineering Belgrade**

Computer Science, 1999 –

### **Courses**

Sun Certified System Administrator (Solaris 10), 2008

ITIL (Information Technology Infrastructure Library) V3 Foundation, 2007

Solaris x86 crash dump analysis course by Sun Microsystems, 2007

DTrace introduction course by Sun Microsystems, 2006

CCNA (Cisco Certified Network Associate), 2005

### **Languages**

Serbian – mother tongue

English – excellent

German – poor

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## **Interests**

Diving, Cycling, Tennis, Swimming, Travel