

## Jonathan Brian Mills

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### Objective:

To pursue a career as a Unix systems administrator, specializing in open source software. To explore emerging technologies, architect enterprise-class solutions, and shape IT policy and planning in my organization.

### Education:

#### University of North Carolina at Chapel Hill

M.S.I.S., School of Information and Library Science

Earned 45 credit hours, but left school early to pursue career.

#### University of North Carolina at Chapel Hill

B.A., History (Ancient/Medieval), 2004

### Experience:

#### Tekelec, Inc. – Morrisville, NC

Unix Administrator III, February 16, 2009 – present

- NIS-to-LDAP migration, using bash scripting, and ypldapd for NIS backward compatibility
- Enterprise-wide LDAP deployment: Red Hat Directory Server 8.1 with multi-master replication over LDAPS; Active Directory password sync; sudoers and solaris profiles stored natively in LDAP; supported clients included Solaris 8/9/10 & RHEL4/5; utilized Distributed Number Assignment (DNA), uid & uidNumber uniqueness constraints, and virtual views created with nsView objectclass; created read-only, dedicated consumer LDAP nodes for remote sites using 389 Server (cost-saving measure).
- Stateless Linux with Xen, NFSroot, and oneSIS read-only images for Linux Virtual Desktops
- Active/Passive clusters with Pacemaker & Corosync --> can fail over a single-instance Oracle database
- Puppet deployment to mixed environment of RHEL4/5 & Solaris 8/9/10. Wrote manifests to install/upgrade packages, enforce integrity of configuration files, ensure that a service is running, and to restart services as needed. (Functional, but not widely deployed at this time.) Bash-scripted the installation of Puppet, and the certificate signing.
- Netapp system administration on FAS 3020 & 3070 gear running ONTAP 7.3.2; managed NFS and CIFS shares; managed LUNs on the filer, to which clients connected through a fiber channel SAN that used Brocade switches.
- Nagios administration, design, planning; used SNMP & NRPE for both Unix and Windows
- MediaWiki administration, with Active Directory integration
- VMWare administration; optimization, including block-aligning linux images for NFS
- Tape Backup with EMC Networker 7.6, with disk staging, and NDMP backup of Netapps
- 160+ Unix machines (virtual + bare metal)

#### Motricity, Inc. – Durham, NC

Systems Administrator II, May 14, 2007 – January 31, 2009

- Personally administered over 60 hosts for project team. Maintained global root privileges on 600+ Unix machines, Linux (RHEL 3/4/5) & Solaris (9 & 10).
- Standardized infrastructure onto RHEL5 and RPM-based solutions. Generated and maintained packages for in-house YUM repository, especially CPAN perl modules.
- Implemented LAMP solutions using Apache with SSL, replicated MySQL 5, PHP 5, mod\_perl, and mod\_python.
- NFS, LDAP, LDAP/SSH access control groups, privilege control with sudo.

- VMWare ESX 3 on Linux.
- Built and maintained Xen virtualization host machines running RHEL5, supported more than 20 Xen paravirtualized VMs.
- Maintained NFS-based RHEL4 and RHEL5 kickstart servers, supported PXE booting and NFS booted for Xen VM installations.
- Maintained a PostgreSQL database for a production e-commerce site.
- Designed, implemented, and maintained distributed Nagios system monitoring for more than 200 Linux and Solaris machines with over 800 service checks.
- Subversion over WebDAV with LDAP over SSL against both Active Directory and traditional LDAP directories such as Fedora Directory Server.
- Maintained a public RSSH server running DenyHosts to prevent dictionary attacks.
- Maintained and upgraded the company's internal MediaWiki installation.
- DNS with chrooted bind 9 in a master/slave configuration.

**ibiblio.org**, UNC-Chapel Hill

Linux Administrator, May 2005 – May 2007

- Provided Email-based technical support using the RT ticketing system.
- Updated internal documentation. MediaWiki administration and configuration.
- Responsible for updating top-level webpages including ibiblio's homepage.
- Managed the Linux Software Archives using the in-house 'keeper' program.
- RHEL3 and RHEL4 installation and administration using Kickstart.
- Built custom RPMs, including building Linux kernel RPMs from source
- LAMP, Apache 1.3/2.x, virtual hosting, squid reverse proxy, mod\_security
- Linux Virtual Server (LVS/IPVS), keepalived, ipvsadm, Nagios service monitoring
- MySQL database administration, migration, and troubleshooting
- Postfix, mailman, spamassassin, procmail
- Server hardware recommendations, configuration and support

**Physics and Astronomy Network Infrastructure and Computing (P.A.N.I.C.)**, UNC-CH

Assistant Systems Administrator, September 2004 – May 2005

- Active Directory, roaming profiles, folder redirection, GPO management.
- Software packaging (MSI's, transforms), deployment (e.g. via GPO).
- Windows XP SP1/SP2, Server 2003.
- Windows patch management via SUS/WUS.
- OpenAFS for Windows.
- Hardware maintenance, troubleshooting, upgrades.

**WNCT-TV**, Greenville, NC

IT Support Technician, June 2001 – December 2002

- Lone computer person on site; responsible for a staff of over 80; over 100 computer systems, including (mostly) Windows 95/NT/2000, some IRIX, some HP-UX, and many older Macintoshes.
- Upgraded all end users from Windows 95 to Windows 2000
- Maintained a Windows NT 4.0 domain
- Re-wired most of the LAN

**References:**

Available upon request.