

Richard Childers - UNIX/Linux consultant
Automation, management, disaster recovery, security, relocation, troubleshooting
childers@redwoodhodling.com

Objective To add value, by increasing reliability - with attention to detail, and automation, as force multipliers.

Experience

Mar 2023 *[COMPANY CONFIDENTIAL], Roanoke, VA 24019*

present **Linux consultant (temporary employee)**

- Supporting relocation of RIU's ~20 PeopleSoft servers from data center to cloud-based VMs
- OCI (Oracle Cloud Infrastructure) CentOS Ubuntu Rocky Linux Samba Nagios iptables ssh

Nov 2018 *Redwood Linux, PO Box 970, Fortuna CA 95540*

present

- Developing turnkey workgroup software based on single board computers for use in classrooms
- Raspberry Pi 3B+ Intel AMD 64-bit CPUs SD USB Wifi DHCP NIS NFS FreeBSD Raspbian Gnome

Sep 2015 *Roche Molecular Systems, 4300 Hacienda Drive, Pleasanton, CA*

Oct 2015

High performance computing (HPC) systems administrator (temporary employee)

- Filled in for IT manager while they were on a well-deserved vacation in Hawaii
- Supporting genetic sequencing: high performance Linux clusters married to NFS storage
- HP Z800 Proliant G6/G7/G8 blade server CentOS 6, CentOS 7, CentOS 7.1, Spacewalk 2.3
- NetApp FAS3170 ONTAP 8.1 EMC Isilon OneFS Bright Cluster Manager 7.1 Centrify SSO

Jul 2013 *Pacific Gas & Electric, 3401 Crow Canyon Road, San Ramon, CA*

Sep 2013

Web authentication administrator (temporary employee)

- Deployed Oracle Enterprise Manager (OEM 12c) agents across 30-plus business-specific clusters
- Proposed and implemented color-coded spreadsheet to track status and problems of deployment
- Generated clear, to-the-point, high-value documentation, for future reference
- JVM 1.4.2 1.5.0 1.6.0 BEA 8.16 Weblogic Oracle Enterprise Manager OEM 12c 11g 10g
- AIX 5.3 6.1 Linux RHEL 5.5 5.6 5.7 5.8 6.1 6.4 SunOS 5.9 Solaris 2.9

Aug 2011 *Zuora, 1400 Bridge Parkway, Redwood City, CA 94065*

Nov 2011

Senior systems administrator (temporary employee)

- Introduced runbook automation; created TechOps dashboard
- Supported Nexenta, OpenNAS, and CentOS-based NFS services
- Quadrupled Xen disk space; implemented PCI/SAS70-compliant sanitation procedures
- Delivered on-demand Splunk analyses for Customer Support; resolved QUALYS security scans
- MacOS X 10.6 Citrix Xen 5.6.100/SP2 CentOS 5.5 5.6 MySQL 5.1 RabbitMQ Tomcat Apache

Apr 2011 *LinkedIn, 2029 Stierlin Ct, Mountain View, CA 94043*

May 2011

SRE / systems reliability engineer (temporary employee)

- Manually audited XML-encoded configuration data for Java-based services
- Vetted WAR files by loading and starting across alpha, beta, testing, production fabrics
- Verified shards, logins, passwords, TCP ports, hostnames, and other security tokens
- MacOS X 10.5 Solaris 10 Red Hat Linux Oracle MySQL J2EE Python JIRA

Aug 2008 *Feeva Technology, 2130 Fillmore St, Suite 338, San Francisco, CA 94115*

Oct 2008

Linux systems engineer (contractor)

- Designed prototype lights-out, scaling HA Internet presence
- Provisioning via BMC/DRAC, using ipmitool(8), BOOTP, Kickstart
- Design included RFC 2307-compliant LDAP single sign-on (SSO/IAM) infrastructure
- Dell 1950 2950 RHEL 5 OpenLDAP 2.4 Nagios 3.0.3 NRPE Samba 2.2.9

See, also: <https://www.redwoodhodling.com/Exhibits/>

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- Sep 2006** *Wells Fargo Bank (ISG/ENG), 45 Fremont St, San Francisco, CA 94105*
Jul 2007 **UNIX/Linux systems engineer (contractor)**
- Staffed NOC for Internet Services Group (ISG/ENG), managed Big Brother (1.9), Nagios
 - Upgraded Fortify from 3.5.1 to 4.0.0, automated backups for Oracle 10
 - Automated security-related patch management for all of ISG's Red Hat servers
 - Installed RHEL 4.0 on VMware ESX, supported IBM WebSphere JVMs
 - Deployed Vintela Authentication Services for providing Linux PAM-based single sign-on (see, also, Sep 1997 work deploying Powerbroker SSO/IAM/RBAC)
 - Windows XP Solaris 2.10 RHEL 4.0 Vintela PowerBroker Active Directory
- Apr 2005** *Friendfinder, Inc, 445 Sherman, Palo Alto, CA 94103*
Oct 2005 **Senior Linux systems administrator (contractor)**
- Maintained, improved large, clustered commercial *adult* web services
 - <http://www.friendfinder.com>, <http://www.adultfriendfinder.com>, hundreds of other domains
 - Maintained legacy Linux Apache, MySQL servers, RAID arrays
 - Proposed & implemented single sign-on (SSO) service to simplify management of privileged users
 - Responsible for deployment of hundreds of new servers using KickStart & CentOS
- Aug 2004** *MicroDisplay, 3055 Research Drive, San Pablo, CA 94806*
Nov 2004 **Linux support engineer (contractor)**
- Converged redundant home directories to single NFS server, eliminated NFS cross-mounts
 - Identified & eliminated undocumented YP/NIS server. Upgraded NIS to support */etc/shadow*
 - Used NIS (Network Information System) to create single sign-on (SSO) infrastructure for R&D
 - Eliminated obsolete users from *passwd*, *smbpasswd*; automated hourly rebuild of NIS data
 - Standardized Samba configurations, rewrote backup scripts to log and email results
 - Installed *OCTTOOLS-5.2*; upgraded *Zlib*, *OpenSSL*, *OpenSSH* on all servers
 - Fixed problems with users' *.ssh/authorized_keys* files interfering with CVS updates
 - Resolved corrupted RAID filesystem containing employee home directories and source code
- Jan 2004** *Restoration Hardware, 5725 Paradise Drive, Corte Madera, CA 94925*
Feb 2004 **Linux disaster recovery consultant (contractor)**
- Rebuilt redundant Oracle database server after hardware crash, without backups
 - Inventoried servers, updated kernels, automated backups of all Linux servers
 - Upgraded FTP server; updated SSH on all Linux, AIX servers; disabled rlogin
 - Patched Solaris 2.8 servers to enable longer passwords and MD5 password encryption
 - Supported WebLogic, ATG/Dynamo JVMs; administered *SiteScope*, as needed
 - Rewrote EDI scripts to eliminate file transfer errors, replaced AIX DLT jukebox under AIX 4.3
- Oct 2003** *Emageon, 1200 Corporate Drive, Birmingham, AL 35242*
Dec 2003 **PACS integration engineer (contractor)**
- Received, assembled, powered up, tested, labeled and documented Linux-based PACS
 - Installed clustered IBM x360s employing single virtual IP address and HA-Linux kernel
 - Red Hat Linux Oracle 9i NFS IBM FASt T700 EXP700 RAID
- Jul 2003** *Fremont Bank, 39150 Fremont Blvd, Fremont, CA 94538*
Aug 2003 **Tripwire security specialist (contractor)**
- Inventoried Windows versions and patch levels; deployed *Tripwire 4.0* on bank perimeter
 - Customized *Tripwire* policy file; wrote guide, trained NOC staff

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- Jul 2001** *Linuxcare, 650 Townsend, San Francisco, CA 94103*
- May 2002** **Network, security, systems administrator (contractor)**
- Administered all equipment, all services (including OpenLDAP SSO), voice and data T1 circuits
 - Maintained 7x24 uptime for FreeSWAN-based VPN between San Francisco and Ottawa
 - Upgraded FreeS/WAN 1.9, to 1.92, then, 1.96; upgraded iptables from 1.2.1 to 1.2.4, 1.2.6a
 - Proposed, designed and implemented automated response to port scans
 - Compaq 18050R Red Hat 6.2 Debian Linux
- Aug 2000** *Imagine Media, 150 North Hill Dr, Brisbane, CA 94005*
- Feb 2001** **Network, security, systems administrator (employee)**
- LAMP-based web sites and content associated with magazines produced by Imagine Media
 - Supported Apache, Tomcat, Accipiter 5.x ad engines, Apache-, PHP-, Java-, Perl- and SQL
 - Installed, maintained Netscreen firewall, storefront servers, TCP wrappers, Tripwire configs
 - *Maximum Linux, Maximum PC, PC Boot, Mac Addict, Digital Photography*, etc
 - Debian Linux 2.2.1 Solaris 2.7
- Dec 1999** *MimEcom, 44 Montgomery St, San Francisco, CA 94104*
- May 2000** **E-Commerce security analyst (contractor)**
- Responsible for design and support of Internet storefront infrastructures
 - *www.bluelight.com, www.smithandhawkens.com, www.kaplan.com, www.escore.com*, etc
 - Designed high-availability environments, supported Java development and release cycles
 - Retrofitted legacy sites; designed & wrote tools to automate problem detection and correction
 - JDK 1.2, Raven SSL, BEA WebLogic 4.5, ATG/Dynamo 4.x, MySQL, Oracle 8.5.1 RDBMS
 - Solaris 2.7, F5's BigIP, PIX, Firewall-1, Tripwire, Netscape & Apache web servers
- Feb 1998** *Hambrecht & Quist, LLC, 1 Bush St, San Francisco, CA 94104 (acquired by Chase)*
- Sep 1999** **Senior network, security, systems administrator (employee)**
- Organized, automated systems inventory, via nightly HTML page generation
 - Administered Windows NT servers, trading floor workstations, domain controllers
 - Administered Netscape LDAP, SMTP and HTTP servers and services
 - Supervised operations and help desk staff; interviewed, recruited and mentored subordinates
 - SunOS Solaris 2.6 SPARC RAID-2 RAID-5 Raptor Firewall-1 Nokia IP400
- Sep 1997** *Wells Fargo Bank (CIG/ISS/SPS), 201 3rd St, San Francisco, CA 94103*
- Dec 1997** **UNIX security architect (contractor)**
- Deployed Powerbroker™ SSO/IAM/RBAC and supporting scripts on diverse HP-UX servers
 - Designed and implemented software for real-time certifications and audits of infrastructure
- Aug 1997** *Diamond Services, Sacramento, CA*
- UNIX disaster recovery (contractor)**
- Assisted value-added retailer of UNIX-based vertical marketing software
 - Integrated Novell Unixware with Cheyenne ARC/Serve and HP DAT drive
 - Integrated UNIX, Macintosh, PC systems into LAN
- May 1997** *Agora Digital, 221 Main St, San Francisco, CA 94105*
- Jul 1997** **Intranet administrator (contractor)**
- Responsible for security of *www.agora.com*, and all infrastructure
 - Supported development of NT-based libraries integrating Java with Sybase RDBMS under NT
 - Cisco 2615 T1 Firewall-1 SGI IRIX Sun SunOS Windows NT 4.0 Macintosh Appletalk Ethernet DNS
- Feb 1997** *Wells Fargo Bank (Business Banking Group), 500 Market St, San Francisco, CA 94111*
- Mar 1997** **UNIX administrative consultant (contractor)**
- Designed LVM configuration for HP-UX 10.20 database servers running Oracle 7
 - Wrote shellscripts to monitor infrastructure for failures; integrated Netware paging software & email
 - HP-UX 9.04 10.01 10.20 Oracle 7

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- Jul 1996** **Rosenberg Capital Management, LLC, 4 Embarcadero Center, San Francisco, CA 94111**
Nov 1996 **UNIX operations supervisor (contractor)**
- Rewrote TAFF (Trade Affirmation) programs to robustly exceed production and business requirements
 - Created library of reusable POSIX shell functions for SQL queries and updates; Integrated NIS, NFS.
 - HP-UX 9.01 9.04 10.01 SunOS 4.1.3 Solaris 2.5.1 Sybase System 10 11
- May 1995** **Sybase Corporation, 6425 Christie Ave, Emeryville, CA 94608**
Jun 1996 **Systems & network administrator (employee)**
- Maintained production and development environments across a broad spectrum of platforms
 - Shared 7x24 on-call duties on a rotating basis with other senior staff, worked in Help Desk and NOC
 - Supported CIS Response Center; maintained Corporate & Engineering RDBMS servers
 - Single-handedly supported Technical Support's diverse collection of Sun hardware and legacy OSes
 - HP-UX 9.01 9.04 10.01 10.20 SunOS 4.1.3 Solaris 2.4 2.5 2.6 SGI IRIX Sybase 8 9 10 11
- May 1995** **Apple Computer, 1 Infinite Loop, Cupertino, CA 95014**
Systems & network administrator (contractor)
- Supported Apple R&D, development of SPAM, SHINER (PowerPC-based workstations and servers)
 - Diagnosed and corrected problems in a heterogenous network with multiple DNS and NIS domains
 - SunOS Solaris HP 700 A/UX Legato Networker
- Aug 1994** **Continuing Education of the Bar, 2100 Franklin St, Oakland, CA 94612**
Dec 1995 **System integration consultant (contractor)**
- Recovered crashed workstation and all data; contracted to manage entire Layout department's IT
 - Automated backups; optimized partitioning, filesystem layout; relocated department during retrofit
 - SPARCstation SunOS 4.1 Solaris 1.1.1 PC-NFS 5.1 Interleaf 5.4.1 HP-UX 9 Sybase 10
- Oct 1994** **RadioMail Corporation, 2700 Campus Drive, San Mateo, CA 94497**
Jan 1995 **Disaster recovery consultant (contractor)**
- Network operations center manager; maintained production services based on X.25, 56K
 - Provided customers with nationwide RadioMail coverage and 7x24 system support
 - Primary contact for all electronic mail issues; resolved mail forwarded to Postmaster
 - Resolved problems with cc:Mail gateway customers; wrote procedural manual for NOC staff
 - SPARCstation SunOS 4.1.3 NeXT Macintosh X.25 56K T1 POP3 frame relay
- Feb 1994** **ASK/Ingres, 1301 Marina Village Parkway, Alameda, CA 94501**
Jul 1994 **Systems & network administrator (employee)**
- Sole technical support person for Ingres' Customer Support and Customer Training departments
 - Primary point of contact for all UNIX, networking, workstation, server and connectivity issues
 - Maintained classrooms, ensured completion of automated weekend database rebuilds
 - Liaison between Customer Support, Customer Training departments, and Ingres Data Center
 - Maintained on-line training materials, media library, all database installations
 - Sun HP IBM SGI Sequent SunOS 4.1.3 Solaris 2.4 2.5 2.6 AIX IRIX
- Sep 1993** **Charles Schwab & Co., 101 Montgomery Street, San Francisco, CA 94104**
Dec 1993 **Sun systems administrator (contractor)**
- Installation, configuration, administration of Sun workstations creating OSF/DCE environment
 - Deployed TransArc Corporation's port of AFS (Andrew File System) with Kerberos authentication
 - Sun SPARCstation 10 IPX Classic Solaris 1.1 OSF DCE AFS

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- Apr 1993** *Fritz Companies, 706 Mission Street, San Francisco, CA 94103*
Jun 1993 **HP systems administrator (contractor)**
- Supported global dial-up WAN of HP servers and PC-based clients
 - Ensured reliable transfer of POs via EDI (ANSI X.12), using Pro*Comm and Windows 3.1
 - During a seven-week period, filled in for sysadmin (vacation), IT manager (quit), & director (resigned)
 - Rewrote Pro*Comm script to prove to customer that remote hard drive was creating modem timeout
 - Ported Fritz-specific software from HP-UX 8.0 to HP-UX 9.0; created and shipped tapes
 - HP 9000 HP-UX 8.0 9.0 Pro*Comm EDI ANSI X.12 Windows 3.1
- Jul 1991** *Oracle Corporation, 500 Oracle Parkway, Redwood Shores, CA 94065*
Feb 1993 **UNIX systems/network administrator (employee)**
- Maintained development and production environments, across multiple platforms (Sun, HP, SGI, etc)
 - Primary contact for IP address registration and IP network administrative issues
 - Participated in design efforts using CASE, ERD, dataflow diagramming, Warnier-Orr methodologies
 - Shared hotline and off-hours pager duties on a rotating basis
 - Sun SunOS 3.5 4.1 4.1.3 Solaris 1 HP-UX IBM AIX SGI IRIX Sequent Dynix Dynix/PTX MS-DOS 3.1
- Feb 1990** *Dep't of Immunochemistry, VA Medical Center, 4150 Clement St, SF, CA 94121*
Jun 1991 **Sun systems/network administrator (part-time employee)**
- Supported small LAN of Sun workstations for department full of UCSF research microbiologists
 - Consolidated home directories via NFS, installed NIS, improved UUCP and standardized printers
 - Sun2 Sun3 SPARCstation SunOS 3.0 3.2 3.5 Ethernet
- Dec 1989** *Department of Radiology, VA Medical Center, 4150 Clement St, SF, CA 94121*
Apr 1991 **PACS administrator (part-time employee)**
- Supported research into automated analysis of medical images (X-rays, CAT, PET, MRI)
 - Researchers used boundary and textural analyses on Sun servers with Pixar processing cards
 - Beta-tested Phillips Computed Radiography System and AT&T Commview in production environment
 - Wrote software utility that recursively downloaded medical images by date, type, or patient ID
 - Maintained records related to federal hospital and research guidelines; documented procedures
 - Installed & configured Appletalk-to-Ethernet gateway; ran Ethernet between computer room and office
 - Sun3 SPARCstation SunOS 3.0 3.2 3.5 Macintosh Appletalk Ethernet
- Dec 1989** *Cirrus Logic, 800 West 6th Street, Austin, TX 78701*
Aug 1990 **UNIX administrative consultant (contractor)**
- Installed, configured UNIX servers, 8mm tape drives; automated backups with 8mm jukebox
 - Defined and implemented procedures for semi-automated standardized workstation installation
 - Sun3 SPARCstation SunOS 3.0 3.2 3.5 Ethernet
- Oct 1988** *AMPEX Corporation, 500 Broadway Street, Redwood City, CA 94063*
Nov 1989 **Systems/network administrator (employee)**
- Maintained multiple NIS domain LAN of 200+ workstations and image rendering platforms
 - Supported Video Systems Division (VSD) and Recording Systems Division (RSD) departments
 - Supported R&D: UUCP, electronic mail, ethernet, custom kernels, special requirements
 - Proposed and implemented mirrored storage mechanisms for VSD and RSD staff, via software
 - Sun2 Sun3 SunOS 2 SunOS 3.0 3.2 3.5 SGI IRIX Sequent Dynix Dynix/PTX
- Aug 1987** *Network Equipment Technologies, 800 Saginaw Drive, Redwood City, CA 94063*
Sep 1988 **UNIX support specialist (employee)**
- Installed and maintained six-building LAN of 300+ Sun workstations and servers, cabled buildings
 - Ran fiber-optic between buildings, documented network configurations, resolved packet storms
 - Supported NET's Technical Assistance Center, and Oracle v4 RDBMS server, 24x7x365, on call
 - Sun2 Sun3 Sun3/50 3/180 3/280 SunOS 3.0 3.2 3.5 VAX 11/750 VMS

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- Feb 1987** **Quintus Computer Systems, 1350 Villa Street, Mountain View, CA 94043**
Jul 1987 **UNIX systems manager (employee)**
- Supported a wide range of UNIX platforms for Quintus' product, Quintus Prolog
 - Supported workstations, administered LAN, maintained UUCP, acted as primary vendor contact
 - SGI Apollo Sun2 Sun3 PC-NFS Sun 2/120 3/180 IRIX SunOS
- Apr 1986** **GE/Calma, Ames Avenue, Milpitas, CA 95035**
Mar 1987 **UNIX systems manager (employee)**
- Managed hardware, software, user education for Calma's Advanced Workstations Group
 - Supported workstations, display and rendering platform lab, diverse UNIX servers and OSes
 - Responsible for maintenance of graphical libraries for evaluation for use in CADD applications
 - VAX 11/750 BSD 4.2 Sun2 Sun3 3/50 3/180 SunOS 2.2 3.0 Power/6 Apollo Domain/OS Ethernet

Languages

- Some Spanish, from growing up in Arizona; two years of German in high school
- Python, Bash, Ksh, POSIX, Bourne, C shells; C, Pascal, BASIC, FORTH, 8- & 16-bit assembler
- Comfortable modifying and compiling custom UNIX kernels to enhance security and functionality
- Currently studying .NET, Tk/Tcl, Cantonese

Education

- | | | |
|------|--|-----------------------------------|
| 2017 | • MasterCAM 2017 3D CNC Programming | <i>(College of the Redwoods)</i> |
| 2017 | • Database Design and Applications | <i>(College of the Redwoods)</i> |
| 2017 | • Network Security Fundamentals / CompTIA+ | <i>(College of the Redwoods)</i> |
| 2016 | • Fundamentals of Manufacturing Technology | <i>(College of the Redwoods)</i> |
| 2016 | • Advanced Manufacturing – Milling | <i>(College of the Redwoods)</i> |
| 2016 | • MasterCAM x10 2D CNC Programming | <i>(College of the Redwoods)</i> |
| 2016 | • Engineering Design Graphics w/ AutoCAD | <i>(College of the Redwoods)</i> |
| 2016 | • Modeling & Animation w/ Autodesk 3DS Max | <i>(College of the Redwoods)</i> |
| 2005 | • Dell Certified FE: Dell PowerEdge 1800, 2800 series | <i>(Dell University, online)</i> |
| 2001 | • Extreme Samba v3.0 | <i>(Linuxcare University, SF)</i> |
| 2001 | • LNX 202 Linux Network Administration | <i>(Linuxcare University, SF)</i> |
| 2001 | • LNX 201 Linux System Administration | <i>(Linuxcare University, SF)</i> |
| 2001 | • LNX 102 Linux Fundamentals for NT Professionals | <i>(Linuxcare University, SF)</i> |
| 2001 | • LNX 101 Linux Fundamentals | <i>(Linuxcare University, SF)</i> |
| 2000 | • ATG/Dynamo Developer Fast Track | <i>(ATG, San Francisco)</i> |
| 2000 | • Administration of BEA WebLogic Server | <i>(BEA, San Francisco)</i> |
| 1999 | • ECXpert 3.0 Administration & Use | <i>(Netscape, Mountain View)</i> |
| 1999 | • Fundamentals of E-Commerce Applications | <i>(Netscape, Mountain View)</i> |
| 1999 | • High Availability Firewall-1, Nokia IP-400 | <i>(Verisign, Mountain View)</i> |
| 1999 | • CCSE: Firewall-1 Security Engineer | <i>(SecureIT, San Francisco)</i> |
| 1998 | • CCSA: Firewall-1 Security Administrator | <i>(SecureIT, San Francisco)</i> |
| 1998 | • Supporting, & Administering Windows NT 4.0 | <i>(Productivity Point, SF)</i> |
| 1996 | • HP-UX 10.20 Systems/Network Administration | <i>(HP Customer Training)</i> |
| 1995 | • Auspex/SunOS Installation & Administration | <i>(Auspex Training Center)</i> |
| 1994 | • Administering INGRES Databases | <i>(Ingres Customer Training)</i> |
| 1992 | • Introduction to Oracle*CASE | <i>(Oracle University)</i> |
| 1991 | • Installation & Administration of Dynix/PTX 1.3 | <i>(Sequent User Education)</i> |
| 1986 | • Security & Administration for LANs | <i>(USENIX, Atlanta, GA)</i> |

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