

Eric Eisenhart

LINUX SysADMIN · IAC · DEVOPS

Santa Rosa, California, USA

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Summary

Experienced Linux SysAdmin/DevOps Engineer. Strong communication skills. Strong attention to detail. Flexible thinker. Always more focused on solving the core problems. Too lazy not to automate away boring work.

Experience

Sonoma State University

Rohnert Park, California

LEAD LINUX SYSTEMS ADMINISTRATOR

Oct 2003 – Current

- My biggest focuses at Sonoma State have been automation, standardization, and resiliency. Nobody needs to be on-call for our Linux servers, because the services so rarely go down, and we can focus most of our attention on building and updating services.
- 2020: built an automatic failover DR/BC “pilot light” for core services, using AWS, S3, CloudFront, Route53, and GitLab pipelines.
- 2019: Modernized our Puppet codebase, including refactoring into Roles & Profiles, and moved to Puppet Enterprise.
- 2019-Current: Primary admin for SSU’s Google Workspace. Including eDiscovery, automated group (mailing list) member management, GAM, DMARC/DKIM/SPF management, etc.
- 2019: Technical lead on project to migrate campus from Exchange to G Suite for email and calendaring, including migrating email, calendar data and contacts for thousands of users.
- ~2010-~2018: Moodle administration. Architected and built scalable infrastructure for hosting this Learning Management System used by all students and most faculty. Also assisted in project to migrate off of it to Canvas LMS.
- 2008: Spearheaded initiative to automate server administration with Puppet. Started with moving much of kickstart standard install things into Puppet configuration management and a few of the simpler cluster. Eventually this became our primary way of administering most things on Unix servers. Included learning enough Ruby to do
- ~2005-2008: Helped mentor co-worker from Mac OSX lab admin to Linux Server admin.
- ~2005: WebCT 4 and later WebCT 6 administration
- ~2004: Standardized server installations with PXE, Kickstart, some scripts, and custom RPMs.
- 2003-~2012: Main administrator of Linux email clusters. Courier IMAP/POP, exim SMTP, SpamAssassin, and SquirrelMail, backed by NFS on NetApps, and OpenLDAP cluster. Rebuilt a couple times, scaling up each time. 2009 presentation to SSU CS Colloquium here: <https://youtu.be/mY0yqSaRmcc>
- Main version control admin. Initially CVS, then Git on GitHub, then on GitLab.
- Postmaster and general email support most of my time here. Recently a lot of defense of our SPF record from shadow IT.
- Key technologies used here: RHEL, Puppet, Bind DNS, MariaDB/MySQL, OpenLDAP, Apache httpd, Varnish, Keepalived, HAProxy, Zabbix, Splunk, NFS, Drupal, Drush, PXE, Kickstart, RPM spec, Perl, Ruby, Python.

Independent Contractor

California

CONSULTANT

1995 – 2005, 2019 – Current

- 2019-2021: Automating system administration for small organization with masterless puppet. GitLab. Various other sysadmin tasks on Debian servers.
- 1995-2005: Various small projects for different people/companies. Perl programming, SQL, etc.

Santa Rosa Junior College

Santa Rosa, California

INTERNET SERVICES SPECIALIST

2001 – 2003

- Linux Sysadmin, Webmaster, Exchange Admin.
- Moved Linux systems from ad-hoc to more standardized configurations.
- CVS administration, Sendmail admin, SpamAssassin, Apache HTTP, BIND DNS, MySQL DB, Amanda backups.
- Primary author of Technical Web Guidelines for campus, worked with interested parties throughout campus community on many of the details.
- Liaised with Academic Computing department during politically sensitive transition of a number of services to a server run by my department.

Envisix Corporation / IX Labs

Santa Rosa, California

SENIOR PROGRAMMER

Dec 1999 – Feb 2001

- Primary work was programming in Perl for the DatingFaces.com website. Substantial Oracle query optimization work as well.
- Designed and implemented a system for creating and shipping individually customized “dating” cards; Perl to interface with rest of site; physical assembly line design; barcode tracking. Learned enough PostScript to handle the minimal customized portions of the printouts.

discord_feedbot

AUTHOR

Feb 2016 – Current

- Wrote an open-source Discord “bot” in Python from scratch that checks RSS/Atom/etc feeds and sends updates to Discord channels. Uses asyncio heavily. Popular enough to get code contributions from others.
- Learned significantly more Python.

Sonoma County Bicycle Coalition

Santa Rosa, California

BOARD MEMBER

Feb 2011 – Jan 2015

- Helped lead non-profit with close to \$500k annual budget. Participated in creating new stratic plan.
- 2013–2014: Board President
- 2012: Board Vice-President. Raised money with fundraising ride.

North Bay Linux Users Group

Sebastopol, California

CO-FOUNDER

1998 – 2006

- Helped found group. Served in various board positions, including board president.
- Gave presentations numerous times, on such topics as Networking on Linux, PostScript programming, distribution comparisons, and Puppet.

Skills

Programming

Bash Shell, C, CGI, CSS, C++, HTML, Java, Perl, PostScript, Puppet, Python, Ruby, \LaTeX , et cetera. Generally able to learn new languages, libraries, etc fairly quickly.

SysAdmin

Apache httpd, Bash Shell, BIND, Cacti, CentOS, CVS, C++, Debian/Ubuntu Linux, DHCP, DNS, Drupal, Drush, FreshService, GAM, Git, GitHub, GitLab, IMAP, LDAP, Mailman, Make, Moodle, MySQL/MariaDB, Nagios, OpenLDAP, Oracle, POP3, Puppet (Open Source & Enterprise), RedHat Enterprise Linux (RHEL), Request Tracker (RT), Rocky Linux, RPM spec/building RPMs, RPM, SMTP, SpamAssassin, Splunk, SQL, Subversion, Syslog/rsyslog, TCP/IP, Unix, Web Accessibility (Section 508, etc), WSL, Zabbix, Zenoss, problem solving, trouble-shooting, et cetera.