Eric **Eisenhart**

SENIOR SYSTEMS ENGINEER · SENIOR LINUX SYSADMIN · IaC · DevOps

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"Choose a lazy person to do a hard job. Because a lazy person will find an easy way to do it."

Summary

Senior Systems Engineer / DevOps Engineer / SysAdmin. Love to eliminate boring and stressful work with automation and improved systems resilience.

Experience

Sonic.net, Inc   *Santa Rosa, California*

SENIOR SYSTEMS ENGINEER   *Dec 2021 – Current*

- Ansible, Vault, Zabbix

Sonoma State University   *Rohnert Park, California*

LEAD LINUX SYSTEMS ADMINISTRATOR   *Oct 2003 – Nov 2021*

- Biggest focuses were automation, standardization, and resiliency. No on-call needed; allowing more focus most on building and updating services. Almost everything HA of some type.
- 2020: built an automatic failover Disaster Recovery/Business Continuity (DR/BC) "pilot light" for core services, using AWS, S3, CloudFront, Route53, and GitLab CI/CD pipelines.
- 2019: Modernized Puppet codebase, including refactoring into Roles & Profiles, switching from mono repo to control repo with Puppetfile, and moved to Puppet Enterprise.
- 2019–2021: Primary admin for 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 and highly-available infrastructure for hosting this mission-critical Learning Management System used by all students and most faculty. HA MySQL, load-balanced web server cluster, NetApp NFS storage. Also assisted in project to migrate off of it to Canvas LMS.
- ~2010–~2015: Shibboleth and CAS Single-Signon (SSO) administration. SAML2. InCommon Federation.
- 2009–2021: Puppetized almost everything Linux servers do, with only exceptions being hard-to-automate installs on one-off servers that were likely to need substantial changes when refreshed.
- 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 clusters. Eventually this became primary way of administering most things on Unix servers. Included learning a bit of Ruby.
- ~2004–2021: OpenLDAP cluster administration. 2021: 4 load-balanced read-only front-end servers, 2 Keepalived HA Mirror-Mode providers. Additional live replicas in DR environment. Also web app servers and a batch server.
- 2003–~2012: Main administrator of Linux email clusters. Courier IMAP/POP, exim SMTP, SpamAssassin, and SquirrelMail, backed by NFS on Net-Apps, 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. Including admin of GitHub appliance and later GitLab servers.
- Postmaster and general email support most of my time here. Last few years had a lot of defense of 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*

- Feb 2019–Current: Automating system administration for small non-profit with masterless puppet. GitLab. OpenLDAP. Rocket.Chat. Keycloak, OAuth setup, 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.

Skills

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

Tech
Apache httpd, Automation, Bash Shell, BIND, Cacti, CentOS, Configuration Management, CVS, Debian/Ubuntu Linux, Debugging, DHCP, Disaster Recovery/Business Continuity, DKIM, DMARC, DNS, Drupal, Drush, Email Administration, FreshService, GAM, GitHub, GitLab, HAProxy, High Availability (HA), IaaS, IMAP, Infrastructure, Keepalived, LDAP, Load Balancing, Mailman, Make, Monitoring, Moodle, MySQL/MariaDB, Nagios, OpenLDAP, Oracle, PaaS, Performance Tuning, POP3, Public Cloud (AWS, DO), Puppet (Open Source & Enterprise), RedHat Enterprise Linux (RHEL), Request Tracker (RT), Rocky Linux, RPM spec/building RPMs, RPM, SaaS, Scalability, Security, Server Administration, Server Hardware, Service Administration, System Administration, Sys Admin, SMTP, Software, SpamAssassin, SPF, Splunk, SQL, Subversion, Syslog/rsyslog, Task Automation, TCP/IP, Unix, Virtualization, vmWare, WSL, Zabbix, Zenoss, et cetera.

Misc
Collaboration, Problem solving, Teamwork, Technical Architecture Strategy, Troubleshooting, Web Accessibility (Section 508, etc), Writing, Written Communication, Strong attention to detail.