

**Douglas K. Landau**

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**Objective:** Seeking a role as Site Reliability Engineer, DevOps Engineer, Linux Sys Admin, or Software Engineer

**Qualifications:** 30+ years professional experience: 20+ as developer, 10 in QA, 8 as Linux Admin, VMWare Consultant

**GitHub:** <https://github.com/douglandau>

**LinkedIn:** <https://www.linkedin.com/in/douglaslandau/>

**Skills:**

- Windows 2016 Clustering, Powershell, ESXi + vCenter 6.7, FreeNAS
- Apache 2.4.7, CentOS-7.3, SolarWinds, Hybris Commerce, PostFix, Rackspace
- VMware vSphere 3.5 - 6.01, vCenter, vCloud Director, vShield, NSX, SDK
- Linux KVM, LVM, LibVirt, OpenStack, VirtualBox, PowerShell, PowerCLI
- JIRA, Jenkins, Accurev, Code Collaborator, Nagios, Stash, NGINX, XWiki
- Java, C, C++, Python, Perl, BaSH, PHP, Tcl/Tk, \*sh, Pascal, Modula, x86
- RHEL, CentOS, Ubuntu, Tails, Kali, FreeBSD, OpenBSD, OSX, Solaris, HP-UX, AIX
- Windows 2012/10/8/7, Vista, XP, 2K3, 2K, NT, 98, 95, Resource Kits, PowerShell
- Git, Subversion, Perforce, ClearCase, Continuous, CVS, RCS/SCCS
- Apache HTTPD, Tomcat, NGINX, LAMP, PHP, MySQL, Javascript, HTML, XML, CSS
- X11, X Windows, GNOME, KDE, Xlib, Xt, Qt, Motif, Tk, XView
- BIOS, AMI, Tyan, DMI, FRU, IPMI, EFI, UEFI, CTCS, memtest86, EDAC
- Security Best Practices, OS Hardening, STIG Compliance, SSH, SSL

**Employment History:**

**July - September 2019 Consultant Avue Inc Sunnyvale, CA**

- Helping to bring a vSphere 6.7 / vCenter Appliance / FreeNAS / iSCSI / Windows 2016 Failover Cluster into service
- Writing Powershell scripts to lock down AD and enforce security best practices

**Jan - June**

- Coding on my GitHub project *sxwd* so that I can produce a half-million or so banner images for my hobby website an order of magnitude more quickly than with Mogrify
- Recreating my hobby website on my Digital Ocean droplet *douglandau.net* so I can again serve maps like *tinyurl.com/dougscommute*
- Reviewing topics in Linux Systems Administration
- Practicing coding in C and Perl

**2018 Sabbatical Bicycling**

**Western Nevada**

- Dayton-Viginia City loop: <https://www.youtube.com/watch?v=3n6tNfgCPmc>
- Markleeville-Diamond Valley loop: <https://www.youtube.com/watch?v=ae1KI-Jox58>
- Broke my thumb in a crash over a unmarked black rubber speedbump:  
<http://douglandau.net/misc/thumb.jpg>
- I left West Marine to exercise and lose weight, on good terms, and with a good reference.

**Aug 2016 - Nov 2017 Sr. Linux System Admin West Marine Watsonville, CA**

- Oncall: As one of four engineers in IT and the sole Linux resource, I was on call one week per month, and required to start digging and continue until understanding the nature of the problem, and thus to whom it should be reassigned, if not Linux-related. This led to significant experience debugging network, Windows, AD, VMware, Hybris, Java errors, IBM AS400, Websphere, DNS, SSH, DDOS, A/C, PG&E, and other outages.
- Responsible for 150 CentOS and RHEL servers; most Rackspace, some VMware VMs, and some physical. These include webservers running Apache HTTPD-2.4.7; appservers running Apache Tomcat-6, SAP Hybris-5, IBM Websphere; mailservers running Postfix; infrastructure servers running DHCP, NFS, Git, FreeIPA, Samba, YUM, SSH proxies
- Manage SSL certificates: create+install new self-signed certificates, new certificates signed by internal signing authority, and purchase new signed certificates from Verisign
- Apply OS updates and security patches. Perform compliance security reviews for PCI and remediate as necessary
- Planned and executed upgrade of 120 servers from CentOS- and RHEL-6 to CentOS- and RHEL-7. Worked intensely with Rackspace via both phone and web portal
- Monitored all servers using SolarWinds. Wrote new Templates, Actions, and Triggers in oddball cases like SSH server on Windows
- Installed and configured XWiki+Tomcat+NginX+MSSQL to create new IT wiki
- Installed and configured fileserver running Samba 4.2 as an AD Domain Member using AD for authentication and authorization
- Participated in Hybris-5 to Hybris-6 upgrade, Websphere problem investigations

**Aug 2015 - Feb 2016 Sr. Virtualization Engineer Pivotal Labs Palo Alto, CA**

- Administered three VMware clouds (vCloudDirector, vSAN, NSX) with 90 physical hosts running 500+ VMs
- Upgraded vSphere and vCloud Director from 5.1 to 5.5 and from 5.5 to 6.01, using the VUM and vendor ISOs; firmware in Dell and Cisco servers and Brocade adapters
- Deployed subnets, firewalls, NAT devices, etc., with NSX

**Aug 2014 - Aug 2015 DevOps Engineer Seagate Fremont, CA**

- DevOps for SandForce (now Seagate Flash Component Division). Supported 50 firmware engineers developing SSD controllers
- Build-and-Release: operated CI/CD pipeline using Jenkins, debugged broken builds
- Administered Linux KVM-LVM appliances: JIRA, Jenkins, Accurev, Code Collaborator
- Administered build servers, test hosts, file servers, OakGate and ULink lab test stations
- Deployed new Dell 700-series servers, upgrade and secure existing 600-series servers and CentOS 5 and 6 OSes. Deploy Ubuntu 14 and 15 on desktops.

**Oct 2013 - Aug 2014** Linux Admin      Vishay Inc (Siliconix)      Santa Clara, CA

- Administered Linux, VMware, and Windows systems: installed upgrades, deployed new 3rd-party and open source software, etc.
- Provided scripting and troubleshooting services to users of Cadence and Mentor Graphics software, HP plotters and printers

**Mar 2013 - Sep 2013** Java Engineer      Tethys Bioscience      Emeryville, CA

- Performed troubleshooting and tuning of an appserver running a patient record system, J2SE/Jdk-1.7\_21, Apache Tomcat 7.0.40, CentOS 6.4, and VMware vSphere 5.0
- Reduced search response times (not actually search times) from 4 minutes to 20 seconds

**Feb 2012 - Sep 2012** Platform Engineer      Synnex Corp      Fremont, CA

- Verified operation of software stack running on server platforms under development. In other words, tested the latest BIOS, BMC firmware, component firmware, device drivers, and CentOS; and tracked latest revisions of the same. Instrumented using IPMI to record temperatures, fan RPM and PS output, and with ps and top to log CPU, RAM, disk and net loads. Troubleshoot problems and work with Tyan, AMI, and component vendors to report bugs and obtain patches
- Seeded and flashed latest BIOS, BMC firmware, and component firmware on servers in production lines. Configured the BIOS and firmware settings (BMC,DMI,SMI,FRU, etc) as per customer specs using IPMI and other tools. Automated using Python

**Feb 2009 - Jan 2012** VMware Consultant      Self Employed,      Campbell, CA

- Provided VMware Install-and-Config and training services to SMBs. Installed and configured vSphere and vCenter 3.5, 4.0, 4.1, and 5. Installed and configured storage, networking gear, VMs, templates, and clusters. Configured HA, vMotion, DRS, and the other vCenter features. Installed and configured vMA and created similar OVF appliances
- Used VMware PowerCLI to script the deployment-and-provisioning of new VMs in 12 seconds, and PowerShell to customize the guest OS to set the IP address, hostname, admin password, and so on, on Windows guests, and BaSH on RHEL and BSD guests
- Created iSCSI servers (FreeBSD), NFS servers (CentOS), firewalls (OpenBSD/PF), LAMP web portals
- Wrote vSphere and VI SDK applications in Java to monitor VMs
- Developed technique for predicting assigned UUIDs and MAC address of VMs and for seeding to guarantee collision avoidance.
- Performed P2V conversions of Windows, Linux, and BSD servers and desktops
- Installed and configured the Cisco Nexus 1000v
- Hardened Linux hosts to be STIG compliant and FIPS compliant by installing an integrity checker, hardening GRUB, configuring LDAP, SSL, and SSH, and so on

**Apr 06 - Aug 08** Automation Architect/Security Lead VMware, Palo Alto, CA

- Led the QA department's migration to STAF, an open source language-independent test framework from a proprietary framework. Wrote the tutorial, style guide, and translation tools; ported framework components to Java and tests to Python, Jython, and XML. Assisted the test groups' in their efforts with training, mentoring, coding. Maintained both frameworks
- Tested and automated the testing of Server-2.0, Workstation-6.1, ViX-1.6
- Security group founder and lead, responsible for all testing of security of vSphere, vCenter, and the SDK. Tested and automated testing of NX+ASLR (No eXecute and Address Space Layout Randomization) in the VMkernel and in the RHEL 5.1 i386 and x86\_64 kernels. Tested the initial releases of the VMsafe API and TPM support in ESX/ESXi, oversaw security testing of vCenter and the SDK
- Member of the VMware Security Team and founder of the QA-Security group

**Sep 04 - Dec 05** QA Manager Symantec, Redwood City, CA

- Hired team of 6 QA Engineers; half experienced, half recent BAs from SJSU
- Shipped a patch release every three weeks of one of two Enterprise HIDS and HIPS systems. Managed and participated in the testing of the releases. Triaged bugs, held bug reviews and go/noGo meetings, decided whether or not to ship. Produced candidate builds, ISO images, gold CDs
- Company-wide point of contact for enterprise HIDS and HIPS. Wrote Release Notes, READMEs, and press releases; announced releases and posted binaries and signatures
- Created a test automation framework using SSH, Perl, Cygwin, Windows Resource Kits
- Performed lab admin and build & release functions for my department

**Jan 01 - Aug 04** Sr. SW Engineer, Counterpane Internet Security, Mtn View, CA

Worked for Bruce Schneier in his startup in the following capacities:

- C Programmer: maintained and continued development of the software components of the company's managed intrusion detection service. Fixed bugs, added firewall support, configured kernels, produced builds
- Perl programmer: Wrote message filters using Perl Regular Expressions
- Product development: Created a vulnerability scanner using OpenBSD, NMap, Nessus
- QA Engineer: performed testing, vulnerability scanning, pen-testing

## **1986 - 2001**          Freelance Programmer

From high school through 9/11 I worked exclusively as a freelance programmer. Most roles were of developer; some were maintenance; a handful were in QA (as Tester, Developer, Lead, and Manager), and a few were as Sun or Linux SysAdmin.

The language was predominantly C but over 5 years each of both C++ and Perl development were present, as were quantities of Java, PHP, TCL/Tk, Pascal, Modula, FORTRAN

X Window System applications, medical imaging applications, image processing and color use were recurring themes. Well known clients from the time period include:

- Apple
- Cisco
- Sun
- NASA
- USAF
- Siemens Medical Labs
- Varian
- Frame (now Adobe)
- Charles Schwab
- Signetics