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

Publications:
- *www.tinyurl.com/lookmanofleet*   [2020]
- *www.tinyurl.com/thetheoryofslowturns*   [2021]
- *www.tinyurl.com/tinderinspiredecourt*   [2022]
- *www.tinyurl.com/theruglicense*   [2022]

Skills:
- Windows 2016 Clustering,Powershell,vSphere-6.7,FreeNAS,OpenFiler, AD Security
- NGINX, Apache/Tomcat, SolarWinds,Hybris Commerce,Rackspace, WebSphere
- VMware vSphere 3.5 - 6.7, vCenter, vCloud Director, vShield, NSX, vSAN,vRealize
- Linux KVM, LVM, LibVirt, QEMU, OpenStack, VirtualBox, Docker Containers
- JIRA, Jenkins, Accurev, Code Collaborator, Nagios, Stash, NGINX, XWiki, PostFix
- Java, C, C++, Python, Perl, BaSH, PHP, Tcl/Tk, *sh, Pascal, Modula, x86, LISP
- 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, GitHub, CodeCollab, Subversion, Perforce, ClearCase, Continuus, CVS
- Apache HTTPD/Tomcat, WebSphere,LAMP,PHP,MySQL, Javascript, XML
- X11, Wayland, GNOME, KDE, Unity, Xlib, Xt, Qt, Motif, incrTCL,Tk, XView,SunView
- BIOS,BMC,AMI,Tyan,Award, DMI, IPMI, EFI, UEFI, memtest86, PCI, SATA,eSATA
- Security Best Practices, OS Hardening, STIG Compliance, SSH, SSL, Sonic, F5

Employment History:

Jul - Sep 2019   VMware/Windows Consultant   Avue Inc, Sunnyvale, CA
- Brought vSphere 6.7 ESXi and vCenter Appliances, an OpenFiler iSCSI server and a FreeNAS server, and a Windows 2016 Failover Cluster into service
- Developed an extensive library of MS PowerShell scripts to lock down AD and to enforce security best practices

2018 - Present
- Took one year off. Now one year has become 5 – **Omigosh!**
- Looking forward to returning to the workplace. I am currently using Linux and coding in C every day for personal and hobby reasons and have forgotten nothing! I will still record the highest scores on your tests.

Aug 2016 - Nov 2017   Sr. Linux SysAdmin   West Marine,   Watsonville, CA
- SRE/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 area of the failure before involving others..
- Responsible for 250 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 SOX
- Planned and executed upgrade of 220 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
- Installed+configured XWiki+Tomcat+NginX+MSSQL to create IT wiki
- Installed+configured Samba 4.2 server as an AD Domain Member
- Participated in Hybris-5 to Hybris-6 upgrade, Websphere debugging

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 5.5 to 6.01, using the VUM and vendor ISOs; FW in Dell,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+Release:** Ran CI/CD pipeline using Jenkins, debugged broken builds
- Admin'ed Linux KVM-LVM apps: JIRA, Jenkins, Accurev, Code Collaborator
- Admin'ed build servers, test hosts, file servers, OakGate + ULink lab stations
- Deployed new Dell 700-series servers, upgraded and secured existing 600-series servers and CentOS 5 and 6 OSes. Deployed 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   Sr. 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 the 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, VMs, templates, 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 Tripwire or SamHain, hardening GRUB, configuring LDAP, SSL and SSH, etc.

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 testing of Server-2.0, Workstation-6.1, ViX-1.6
- Overall responsibility for all security testing of vSphere, vCenter, and the SDK, 4.0 release.
- 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
- Member of the VMware Security Team and founder of the QA-Sec team

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, status, and go/noGo meetings, shipped. Produced candidate builds, ISO images, gold CDs
- Company-wide point of contact for enterprise HIDS and HIPS. Wrote Release Notes, READMEs, press releases; made announcements, posted binaries and signatures
- Created a test automation framework using SSH,Perl,Cygwin,Resource Kits
- Performed lab admin and build & release roles also for my department

Jan 01 - Aug 04   Sr. SW Engineer   Counterpane Internet Security, San Jose
- **C Programmer:** 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
- **QA Engineer:** Performed testing, vulnerability scanning, pen-testing
- **Platform Engineer:** Created a vulnerability scanner using OpenBSD, NMap, Nessus, XDM. PHP/MySQL. This appliance enabled the sale of the company to British Telecom, as the latter had a checklist of things that the startup they would buy have at least two products. The appliance, although new, worked as advertised, looked slick,, and simply would not crash, freeze, spew errors, or fail otherwise.. BT greatly appreciated this and the sale went through.

1986 - 2001   Freelance Programmer   Los Gatos, CA

From early high school to 9/11 I worked almost exclusively as a freelance programmer. Most roles were of developer; a handful were in QA (as Tester, Developer, Lead, and Manager), and another as SysAdmin, of SunOS, Solaris, AIX, HPUX, SCO, Linux, and FreeBSD.

The language was usually C but 5+ years of both C++ and Perl development were present, as were 3 of Java,PHP,TCL/Tk,Pascal,FORTRAN

X Window System applications, medical imaging applications, image processing and color use were recurring themes. Clients included:
- Apple
- Cisco
- Sun
- NASA
- USAF
- Siemens Medical Labs
- Varian
- Frame (now Adobe)
- Charles Schwab
- Signetics