

Adam Olson
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Website: <http://adamolson.com>

Summary of Experience (17+ Years):

- UNIX/Linux and Windows Administrator, Network Engineer and Administrator
- LAMP environments, Perl programming and other languages (C++/PHP/Javascript/MatLab/etc), Mail/Web/Database administration, ISP/ASP/Corporate environments, Data/System/Network Security
- 24/7 environments, high traffic in-house data center virtualization up to 800+ virtual machines
- Extensive AWS experience including EC2, EBS, S3, ASG, CloudFront, CloudFormation, SNS, SES, Route 53, ELBs, RDS, API scripting, etc.
- Large cloud design on Rackspace.com's hosting platform as well as RightScale.

Certifications / Training:

CCNA - 1999. (Cisco Certified Network Associate)
CSA - 1998. (Sun Certified Systems Administrator)
AWS Training Classes – 2013.

Work Experience (17+ Years):

adamolson.com – San Luis Obispo, CA
Consultant

August 2013 – Present

A few of my articles on Google Scholar: <http://dl.acm.org/citation.cfm?id=351201>

I consult for various companies across the United States. I typically telecommute or fly to the customer site.

ThinkPassenger, Inc. – Santa Monica, CA
Sr. Linux Administrator

April 2013 – June 2013

Social media company moving to a cloud based infrastructure.

I designed a multi-regional AWS solution including LBR (latency based routing) via Route 53, native database replication (without SimpleDB or RDS) and many other technologies.

- Extensive use of Route 53, ELBs, OpenVPN, custom EC2 AMI builds, etc.

2nd Watch, Inc. – Seattle, WA
Cloud Systems Engineer - Contractor

January 2013 – March 2013

Responsibilities included handling 2-3 customer accounts at a time as the customer facing technology lead. Large scale migrations from in-house datacenters or other providers to primarily Amazon Web Services.

- Extensive DevOps work with the AWS API for tasks such as automated AMI snapshots, pruning, and custom failover scripts for REST-based network services.
- Extensive use of CloudFormation, Auto Scaling Groups, Route 53, ELBs, etc.
- Designed multiple Chef based configuration management solutions using OpsWorks as well as custom built primary Chef servers with multiple nodes and management consoles.
- Supporting services and software such as Cloudwatch and custom Perl scripts were often used.
- Designed several HA cluster configurations using technologies like ELBs, keepalived, DB replication, RDS Disaster Recovery solutions, EBS backups, etc.

Bluewolf, LLP New York, NY (Remote)**December 2011 – December 2012****Sr. Systems Administrator**

Responsibilities included handling 4-5 customer accounts at a time as the customer facing technology lead. My accounts included DisneyBaby.com (Disney Interactive Media Group), Twin Cities Public Television, ICE.com and others.

- Large cloud deployments on both Rackspace.com and AWS environments involving various types of LAMP stacks.
- Examples include Apache, Nginx, PHP, Node.js, Wordpress, Redis, memcached, MySQL, Postgres, MongoDB, SimpleDB, etc.
- Supporting software such as Nagios, Cloudwatch, Puppet, and custom Perl scripts were often used.
- Code pushes were typically handled via Git, Subversion, Puppet, and rsync with shared RSA keys.
- Designed several HA cluster configurations using technologies like ELBs, keepalived, DB replication, shared RDM LUNs, EBS storage, Route 53, etc.
- I would usually host Drupal and non-Drupal CDNs on S3 and CloudFront.
- All environments involved a large number of virtual machines and were usually cloud based.
- Common operating systems used were RHEL, standard Amazon AMIs (more or less RedHat), CentOS, Ubuntu, and HP-UX.

Independent Consulting**May 2011 – December 2011****System/Network Engineer Consultant**

- Provide primarily remote support and some on-site work to various hosting providers, LAMP environments, VoIP design, and custom programming/scripting.
- Lead engineer for two start-ups involving embedded CPE devices running primarily Ubuntu aggregating data that is backhauled to AWS services for processing and customer dashboard presentation.

MotionLoft, Inc. - San Francisco, CA**August 2010 - April 2011****Technology Lead**

Start-up company focused on embedded computer vision devices running Ubuntu on dual-core ARM and Intel based platforms.

- Large WAN administration including centralized processing on AWS EC2 instances including ELB, EBS, and S3.
- Extensive design using Fedora and Ubuntu.

Internet Brands, Inc. - El Segundo, CA**May 2010 - June 2010****Sr. Linux Administrator - Contractor**

- Design and maintenance of 24/7 high traffic LAMP environments.
- Palo Alto Network firewalls, F5 Big-IPs, Xen Center Virtualization, NetApp filers, MySQL, Postgres, PHP, Sendmail, Postfix, qmail, Apache, Smith/Coldfusion, Sphinx, Tomcat, Nginx, Varnish, memcached, Nagios, Cacti, Puppet, Capistrano, LDAP, SVN, DNS, etc.

Online Information, Inc. - Atlanta, GA**April 2008 - March 2010****Sr. Systems/Network Administrator**

- Design and maintenance of 24/7 ASP LAMP environment.
- Services include co-location and onsite network/system design, custom programming, VoIP PBX installations, network/data security, data backups, Apache, MySQL, Postgres, JBoss, Postfix, Sendmail, etc.

ENSTRAT, Inc. - Marlborough, MA**February 2006 - March 2008****Systems/Network Administrator**

- Design and maintenance of primary headquarters and satellite offices. Services include co-location and onsite network/system design, custom programming, VoIP PBX, network/data security, offsite data backups, PDC environment, corporate email, etc.

Office Appliance, Inc. - Arcata, CA

July 2001 - January 2006

Linux Software/Hardware Developer

- Design, program, and manufacture the Office Appliance product line. Office Appliance serves the needs of small to medium sized companies, offering features from file serving, VPN access, firewall protection, web and mail serving, PDC support, web-based office software, and more.
- Designed and supported 30 corporate locations across the United States and Western Europe.

Quartz, Inc. - Santa Clara, CA

February 2000 - June 2001

Senior Network Administrator

- Responsibilities include network design, implementation, administration, and security. Start-up atmosphere.
- Built production web tier consisting of front end web server farm on Weblogic, load balancing with Foundry ServerIronXLs, with Oracle backend on E450s and NetApp filers.
- Also took on all systems administration responsibilities for company server farm consisting of various platforms numbering around 40.

MCI WorldCom - Fremont, CA

January 1999 - February 2000

Network Engineer Level III

- Responsible for design additions and maintenance to the Western Electric Power Exchange (WEPEX, the power network/grid for California and other Western states).
- Provide expertise to Level I & II.
- Troubleshoot and write applications for the Quotron (NASDAQ) network.
- Helped design/implement the internal network management network for our facility to allow centralized access to all customers.
- Included Sun Ray clients, Citrix servers, source and destination natting firewalls, proxy servers, Jumpstart, DNS, NIS, and NFS.

Humboldt Internet, Inc. - Arcata, CA

November 1995 - May 2009

Sr. Systems/Network Administrator

- Humboldt Internet was the largest locally owned and operated ISP in Humboldt County.
- Everything was run on Sun servers, Fedora/Ubuntu boxes, Cisco routers, Livingston PM2s/PM3s, Cisco AS5200s, and 3COM Total Control Hubs for dial-in servers.
- Customer base ranged between 4000-5000 users at any given time.

Publications:

June 2005 - SysAdmin Magazine

Title: Branded VPN Deployment and Seamless Remote Management

Feature article in this issue. I discussed how to roll a branded Win32 VPN installer with integrated remote VNC management.

May 2001 - UnixReview.com

Title: SOHWARE BroadGuard Secure Cable/DSL Router

I wrote a product review on this Cable/DSL router that included covering features like DoS monitors, DHCP, NAT, and various types of access control.

February 2001 - SysAdmin Magazine

Title: Keeping Your Web Content in Sync

I covered a straightforward content push system, utilizing rsync and ssh, that keeps content in a front-end web server farm synchronized.

January 2001 - UnixReview.com

Title: Firewall Review: eSoft's InstaGate EX

I wrote a product review on this firewall that focused on management, performance, VPN support, security, and resiliency.

October 2000 - SysAdmin Magazine

Title: Scaring Crackers Away with TCP Wrapper

I discussed a design, utilizing a package called TCP Wrapper, to deceive hackers into making their presence known and which will also scare them away.

August 2000 - UnixReview.com

Title: Secure Tunneling between Intranets with VTun

I covered how to securely connect multiple Intranets, that are using private address space, over public Internet connections by building VPNs on UNIX firewalls.

July 2000 - SysAdmin Magazine

Title: Converging Remote Networks into Your Routing Table

Feature article in this issue. I discussed how a corporate or provider network can handle the convergence of remote networks into their routing tables as the networks move from RAS to RAS (Remote Access Server).

Networking:

Varying levels of experience with:

ATM switch configuration, Frame Relay router/switch configuration, Ethernet, HDLC, BGP, OSPF, RIPv2, and EIGRP. Firewall 1, IPF, Gauntlet/FWTK, Netscreen and Nokia firewall/proxy configuration. Knowledgeable in the operation of TCP/IP, some IPX and Appletalk. Cisco router models 1600 through 7500. Very experienced with Cisco IOS, ACLs, distribute lists, custom queuing, NAT, VLANs, etc. Load balancing with Foundry ServerIron. Trunking on Sun and NetApp platforms.

Systems:

Large number of x86 based RedHat/Fedora, Ubuntu and CentOS installs. Sun boxes running Solaris 2.4, 2.5.1, 2.6, 7, and 8. Sun hardware: IPX, IPC, Classic, 2, 5, 10, 20, 1000, Ultra 1/2/5/10/250/450/E3K, Netra t1/1125. Linux, FreeBSD, and OpenBSD on PCs. Windows 3.1, 95, 98, NT, and MacOS. Solaris 8 x86 on Dell PowerEdge servers with filesystem mirroring. Automated tape library backup system design and configuration for Sun Solaris platforms using ufsdump, BRU, and Veritas NetBackup with DLT and 8mm tape libraries. RAID level 0,1,5, striping, and mirroring of filesystems with DiskSuite and hardware RAID controllers.

Services:

Sendmail, BIND (DNS), RADIUS, POP3, IMAP, DHCP, Domain hosting (Frontpage, CGI/Perl coding, Netscape Enterprise/Commerce, Apache, IIS, HTTP/HTTPS), Nginx

MySQL, Postgres, Postfix, NFS, NIS, LDAP and Jumpstart.

Security:

Various traffic anomaly and misuse network intrusion detection designs with Snort. Checkpoint Firewall One, SecuRemote, SSH tunneling as VPN solution, SAINT, TCP Wrapper, Tripwire for host based intrusion detection, IPF, Firewall feature set in Cisco IOS, CBAC, reflexive ACLs, arpswatch, centralized syslog, various levels of system tightening.

Design/Monitoring Applications:

Experience with various tools such as HP Openview, MRTG, Netsys, Cabletron Spectrum, SiteScope, Cacti, and Nagios. Very experienced with UNIX/router/switch CPU/Memory/Swap/Disk trending and monitoring with HP Openview and various SNMPd packages.

Programming:

Extensive Perl scripting and CGI coding. PHP/MySQL, C++, MatLab, TCL/TK, Expect, Java, shell scripting.

Education:

2 years of college focused toward Economics.

References available upon request.