Matt Freitag

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IT Infrastructure Manager / Senior System Administrator
Solid record of success providing leadership, multiplying the capabilities of others, and managing complex technology projects.

Over 25 years of experience in UNIX/UNIX-like and Microsoft System Administration within complex environments, geographically diverse branches, and large user-bases. Over 10 years of experience managing successful IT teams. Strong backgrounds in Web, DNS, Active Directory, LDAP, Security Auditing, Network Engineering, and Server Support. Strong troubleshooting and communication skills. With detailed planning and a constant eye for new and promising technologies.

Primary areas of expertise are in the design, installation, maintenance, and troubleshooting of UNIX/UNIX-Like, and Microsoft based infrastructure. Other strengths include Network Engineering, Security Auditing/Hardening, and Scripting.

- Extremely strong Server Administration: Windows, FreeBSD, Linux, and OpenBSD.
- Strong emphasis on virtualization, and server consolidation. VMware, HyperV, KVM, VirtualBox, oVirt, QEMU, and Xen.
- Multiple years of experience with Amazon Web Services, Microsoft Azure, and IBM Cloud.
- Comprehensive Network Monitoring and Management Solutions, including Nagios, Icinga, Zenoss, MRTG, RRDTool, and various home-grown shell scripts for verification of efficient server responses and outage notifications.
- Very skilled in Business Continuity and backup scenarios. Wrote a simple, freely available open-source backup application with a web front-end to RSYNC, called "BackupMon". (http://sourceforge.net/projects/backupmon)
- Enterprise-wide Virus and Malware/Spyware protection for Servers and Clients, using SAV, NAI, ClamAV, AVG, DNS black-holes, and real-time filtering. Also created an internally used Virus Reporting and Filtering tool named VirusWALL. (http://sourceforge.net/projects/viruswall)
- Very Knowledgeable in Administration of Windows Server, Active Directory, Managing Domains, Inter-Domain Trusts, Group Policy Integration, and Domain Forests.
- Wireless deployment of multi-vendor AP's in mesh, standalone, or point-to-point topologies, using 802.11a/b/g/n/ac/ax hardware.
- Expertise in Network Security, Transparent Bridges, Network Taps, Firewall Configurations, Intrusion Detection Systems, Penetration Testing, and Best Security Practices. To include the use of Nmap, Nessus, Snort, Tcpdump, IPA, Wireshark, ipf, ipfw/ipfw2, ipchains, and many others.
- Diverse knowledge of Point to Point tunneling, GRE, VPN services, Dial-up, Remote Client Access, OpenVPN, and Microsoft PPTP. Also RADIUS and many other

authentication protocols.
- Strong Apache/Nginx/Lighttpd/Microsoft IIS Administration. Also very strong with Proxy Servers, including Squid.
- Strong SMTP knowledge to include Exchange, Postfix, QMail, Exim, Sendmail, and Spam Protection via Blackhole lists, SpamAssassin, Postgrey/tarpit, and other counter-measures.
- Comprehensive LAN knowledge: VLAN, 802.1Q Trunking, ARP, DHCP, and multi-vendor switches.
- Extensive DNS knowledge, utilizing BIND, PowerDNS, DJBDNS, TinyDNS, and Microsoft DNS.
- Proficient in WAN QoS Shaping, Monitoring, and otherwise tracking and enforcement of policies and resources.
- Knowledgeable in Shell Scripting, PowerShell, PERL, PHP, TCL/TK, Expect, and C.
- Strong Knowledge of Cloud-Based solutions, to include IaaS, PaaS, and SaaS in IBM Cloud, Microsoft Azure, and Amazon Web Services.

Professional Experience

TaylorMade Golf, Inc.

Interush, Inc. (Now Ever Innovation, Inc.) (11/2014 - 6/2021)
400 Spectrum Center Dr., Irvine, CA
IT Infrastructure Manager

- Infrastructure Team Lead managing Linux, Windows, and Desktop Administrators.
- Maintained all Database Instances (PostgreSQL / MySQL / Microsoft SQL)
- Maintained and expanded Irvine Data Center, including Juniper Network Stack, Juniper VPN Appliances, IBM SAN, Tegile SAN, all physical VMWare servers, and Linux/Microsoft virtualized servers. Includes Windows 2012, Windows 2016, Microsoft SQL, Veeam 9.x, Debian and various services.
- Built out Singapore Data Center. Linux Server Environment: Apache Web, Memcache, PostgreSQL, PgBouncer, MySQL, Dev Deployment Facilitation, ElasticSearch, and Kibana for centralized log collection and parsing. Windows Server Environment: Active Directory, IIS, Microsoft SQL, and ColdFusion.
- McAfee ePolicy Orchestrator, Active Directory Security Policies, end-user policy enforcement, and Remote Access Terminal Servers.
- PostgreSQL migration to include replicas, and Point-in-Time-Recovery with Write-Ahead Log.
- MySQL migration to include replication topology.
- Multiple Microsoft SQL Migrations.
- Implemented pfSense Devices across company infrastructure for a fully meshed VPN. (Irvine, Taiwan, Taichung, Taipei, Philippines, and Singapore)
- Utilized Chef to enforce system state of Linux Servers.
- AWS, AWS China, IBM Cloud, and Microsoft Azure Deployments.
- PCI compliance.
- 24x7 On-Call and Data Center response.

WhiteFence, Inc. (10/2010 - 2/2014)
5333 Westheimer #1000, Houston, TX

Senior System Administrator

- Systems Team Lead. Managed Windows Administrator and Desktop Administrator.
- Oversee, Design, and Implement Solutions for our Web, Storage, Network and Internal Enterprise Infrastructures.
- Administration of FreeBSD, Linux, Windows 2003/2008 R2, Hybris and Endeca Deployments, and Network Devices to include core and edge devices.
- Implemented Continuous Integration environments utilizing Jenkins; primary DevOps.
- Managed approximately 120 physical servers, and 50 Virtualized Servers.
- Created a Virtualized Environment leveraging ESXi 4.1 and our EqualLogic SAN, with MPIO for a redundant 10GbE iSCSI backbone.
- Support/Guidance of Technical Re-architecture from a PHP/Zend Architecture to a Spring-based platform, Hybris (with Endeca).
- Maintained monitoring platform, including Nagios for active alerting and cacti for historical performance metrics.
- 24x7 On-Call and Data Center response.

The Aldridge Company (01-2010 - 07-2010)
4543 Post Oak Place, Suite 208, Houston TX
Senior System Administrator

- Support, Create, Troubleshoot, Oversee ESX 3.5, and 4.0 Servers and VMs.
- Provide UNIX support for developers, and end-users.
- Administrate all servers and many network devices across 5 Data Centers, and 1000+ Devices.
- Engineered and supported ZFS based iSCSI SANs.
- Designed and Implemented a Custom Distributed Nagios Monitoring Platform to scale monitoring.
- 24x7 On-Call for Data Center response and/or Troubleshooting.

Unbound Technologies, Inc. (05-2009 - 12-2009)
535 Cowper Street 2nd Floor, Palo Alto, CA.
IT Operations Manager

- Oversee the daily operations of our Data Center.
- Provide UNIX support for developers.
- Administrate all servers and network devices to ensure maximum uptime.
- Maintained system monitoring, to include Nagios.
- Created and maintained VMware-based "cloud"-type infrastructure for processing and hosting data shards, and related tasks.
- 24x7 On-Call for Data Center response and/or Troubleshooting.

Internet REIT, (10-2007 - 05-2009)
1177 West Loop South, Suite 1300, Houston, TX.
Senior System Administrator

- Administered a group of RedHat Linux DNS servers handling well over 1 Million requests per hour, on 275,000 Domains using PowerDNS with a MySQL backend. Was also thrilled to work with SpamHaus in pointing *all* our Domain MX records at their

SMTP honeypots, greatly aiding in detection and mitigation of new spam threats for the Global Spam-fighting Community.
- Administered the "Parking" cluster which consisted of over 275,000 Domains, running on Apache.
- Administered the "Content" cluster for large sites such as recipe.com, bands.com, favorite.com, hackers.com, yellowpagesltd.com, ebuy.com, and many others, running on Apache.
- Daily tasks include maintaining all UNIX-based servers, and Windows 2003 Enterprise Servers, coupled with Active Directory, and a large Full-Mesh DFS namespace for our various locations.
- Re-wrote a DNS record verification system in PERL, to replace an existing shell script which took over 5 days to execute. My PERL implementation took up to 15 minutes, depending on network congestion.
- Created a PERL script that pulled real-time revenue via SQL and graphed them, also graphing the previous 2 days of data for a historical perspective. This was also dumped to XML for consumption via FusionCharts.
- Wrote a PERL script to capture DNS traffic statistics, and generate XML to feed into Fusion Charts. This graph was displayed often, showing top DNS traffic for an hourly basis via flash animated graphs on our 50" LCD's hanging at various points in our main office and lobby.
- 24x7 On-Call for Data Center Response and/or Troubleshooting.

Convergence Ethanol (Purchased Prior Employers Bott & Gulfgate), (9-2004 - 10-2007)
7125 Long Dr., Houston, Texas.
Senior System Administrator

- Oversaw all IT operations and carry out necessary tasks related to our IT infrastructure at all locations.
- Monitor IDS, Firewall, and Internal Infrastructure for security breaches, and possible points of ingress or egress which could be deemed insecure.
- Configuration, maintaining and monitoring of Apache, Sendmail, Bind, Squid, Samba, RSYNC, Network QoS, and all other services. This included several Windows 2003, FreeBSD, and Linux servers, with all office branches being geographically diverse.
- Monitoring of Routers, Servers, Desktops, and a pro-active disaster recovery system.
- Helped to maintain ISO 9000:2001 compliance within our Organization.

Bott & Gulfgate Equipment (7-2002 - 9-2004)
7125 Long Dr., Houston, Texas.
Senior System Administrator

- Administered several FreeBSD, Linux, and Windows Servers at multiple locations.
- Established company-wide VPN, moved all managed hosting to on-site premises, and continued infrastructure robustness.
- Wrote and Designed Applications used in our daily network operations, one of which "VirusWALL" reported all viruses we rejected in real-time and graphed data using a simple CSS-based graphing "engine". Another which was coupled with our accounting software that did updates to inventory costs per Vendor's price sheets for that year. Before this, they had to *manually* update over 10,000 prices each quarter.
- Configuration and monitoring of HTTP, SMTP, DNS, Proxy, SMB, RSYNC, and other services.

- Implemented my home-grown remote backup solution which isolated our data from corruption or loss.
- Implemented access lists for web traffic, and access logging so management could track user's "surfing time".
- Established company-wide VPN, moved all managed hosting to on-site premises, and continued infrastructure robustness.
- Migrated from mixed NT4 and Samba Domain Controllers to Windows 2003, with domain trusts.
- Helped to bring companies into ISO 9001:2000 compliance with a central document repository.

Network Communications Group (8-2000 - 7-2002)
27327 Robinson Rd., The Woodlands, Texas.
Senior System Engineer

- Configured, maintained, and monitored HTTP, DNS, and SMTP servers running Linux for multiple customers, as well as our own.
- Handled client issues on a daily basis, ranging from Medium to Enterprise/Government sized networks scaling 500+ users.
- Oversaw multiple projects, involving multiple 150-foot wireless towers, using unidirectional antennas over 5+ Miles distance for Government entities, and School districts.
- Integrated VoIP gateways into existing PBX across point-to-point wireless links, to replace the existing phone and leased lines.
- Designed, Implemented, and Managed Packet Filtering at the customer's network edge - OpenBSD was our standard firewall "package". This also included local city installations, allowing connectivity to the Houston FBI criminal database.
- Server consulting work included Linux, FreeBSD, OpenBSD, OpenServer, Solaris, and Windows NT/2K operating systems.

Walden Web (Contract) (2001)
2828 Rodgerdale, Houston, Texas
Network Engineer

- Maintained FreeBSD Transparent Bridge regulating Quality of Service, and Egress Packet Filtering across a burstable DS3. This was nearly a constant 30 Mbps of aggregate ingress and egress Internet traffic, with large bursts periodically.
- Also designed a light-weight software solution in Perl with IPA for IP accounting, to track user traffic and allow admins to disable user's traffic at the border if they had not paid their bill, or were abusive.

EduTek, Inc. (5-1997 - 8-2000)
2500 West Davis, Conroe, Texas
Service Manager / System Administrator

- Daily service call schedules, verifying technician work and answering technical-based questions.
- Verifying tasks within our department was properly prioritized.
- Administered Slackware Linux Servers, running Apache, Samba, NAT, and QMail.

- Worked closely with the City of Conroe, and related entities as well as City of Conroe Police and Tax Department, to help maintain their robust network of over 500 users, including migrating their NT4 domain to Windows 2000.
- Maintenance of Montgomery County's Parole Department and other related locations including NT4 and Solaris based servers.
- Maintained NT4 and OpenUNIX servers at U.S. Filter's Conroe facility.

Compaq (1-1997 - 5-1997)
12000 North Fwy, Houston, Texas
Open Research Technician

- O.R.T. was a select group of individuals who were charged with investigating and solving bugs in the Compaq "Presario" product line.
- Also "end-of-line" technical support, as we were the final escalation point for phone technicians if all levels of support had been exhausted.

North Harris Community College (1996 - 1997)
SH 249, Tomball, Texas
Network Technician

- Troubleshooting network issues within the campus domain, including common desktop issues, printer issues, etc.
- Troubleshoot, and repair any network related issues, to include our LAN connectivity.
- Answering questions from users of the Computer Lab.

Projects
- Wrote a Discord Bot in approximately 5,000 servers with up to 300,000 users during peak, and growing.
- Open Source Virtual Appliance Project hosted in SourceForge providing pre-built VM images for students and professionals.

Education

College

Incomplete, 1996-1997, Bachelors in Computer Science

Home School

Graduated 1996, High School Diploma