

# J.J. Smith, Senior System Administrator Linux/UNIX

I am J.J. Smith ([Job-ContactJJ@SneakEmail.Com](mailto:Job-ContactJJ@SneakEmail.Com)) a Senior System Administrator of Linux/UNIX. I've worked in financial, content hosting, engineering and defense environments. I'm looking for a job where I can do some systems work, perhaps some travel and work with cloud and configuration management systems. My strength is FOSS technologies on Linux, but I will support proprietary tech, Windows, UNIX, whatever the job requires. I can be flexible with job details as long as the work is interesting and increases my skill set.

## SKILLS

### What I Do

- Install, configure, manage and update Linux & Windows systems and hardware
- Troubleshoot
- Automate system and user tasks with scripting, typically BASH with a little Perl or PowerShell for Windows
- Hardware configuration and capacity planning
- DevOps (System Operations side)

### Primary (level 8-10)

BASH Shell Scripting, [RedHat Enterprise](#), Solaris, Windows 7, Windows 2008, Windows 2012R2, [CENTOS](#), Fedora Core, KickStart, Dell PowerEdge, [SLACK](#), [Xymon\(Hobbit\)](#), [DokuWiki](#)

### Secondary (level 4-7)

[Kerberos](#), Linux Clusters (Homegrown, [ROCKS](#), [Platform OCS](#)), [NetApp](#) Filer, [Panasas](#), [VMWare](#), [ColdFusion](#) Server, Legato (EMC) NetWorker, [EMC Celerra](#), RPM, Custom SRPMs, IPTables, RACAdm, [Sun \(Oracle\) Unified Storage](#), Active Directory, PowerShell, Perl, Windows 10, Sensu

## Other (level 1-4)

NFS, ASCII Doc, MKISOFS, ISOLINUX, RSync, OpenSSH, SCP, Linux LVM2, Mac OS X, CVS, CDRecord, Apache, RedHat JBoss, Apache TomCat, Windows XP/2000/2003, ILO, DRAC, Minicom, GRUB, awk, cut, for ipmitool, read, sed, seq, tee, tr, uniq, while, and so on.

## CERTIFICATIONS

CompTIA Security+ CE (SY4-401)	07/2017	Austin, TX
RedHat Certified Engineer Enterprise Linux 6 (RHCE)	07/2015	Austin, TX

## EXPERIENCE

### CRI

#### **Field Service Representative / System Administrator**

*09/2019 - Present* CONUS

FSR support for ISR system and associated software. Act as IT SME as needed. Troubleshoot Windows and ESXI. Train maintainers on troubleshooting so they can take over fixing first-line issues with equipment and software.

#### **Accomplishments**

- Create procedure to quickly clone VMWare installs after troubleshooting why previous clone attempts failed
- Discovered bug in vendor setup script and document fix for future versions

#### **Technologies**

Windows, VMWare

### CRI

#### **Field Service Representative / Operator**

*03/2019 - 09/2019* OCONUS

Operate and support ISR imaging system. Act as IT SME as needed. Interact with customer, product vendor and other sub-contractors.

## Accomplishments

- Automate reporting diagnostic data using PowerShell

## Technologies

Windows, Linux

## Leidos

### System Administrator (Prog. Ana. IV)

*10/2017 - 03/2019* Various Locations OCONUS & CONUS

Worked as as System Administrator among other tasks on defense-related systems on both Linux and Windows. Rejoined the contract and the role was very similar to that in the *10/2009 - 09/2016* dates below.

## Accomplishments

- Provide Linux troubleshooting support for issues stumping the team
- Created method that saved hours to patch systems with minimal mission downtime using additional hardware and storage so that cutting over to the patched install was swapping disks
- Extended work dates to be available for software updates that required Linux skill

## Technologies

Windows, Linux, VMWare ESXI, PowerShell

## TopImageSystems

### DevOps Engineer

*11/2016 - 09/2017* Plano, Texas

DevOps in Cloud-based Document Management Company

## Accomplishments

- Provisioning of ELK Cluster under Chef
- Start long neglected process of Documentation

- Corrected a logic error I discovered in a Sensu check that caused monitoring to go unavailable
- Created homegrown ElasticSearch backup using snapshots and repositories, writing scripts to manage

## Technologies

Windows, Linux, Chef, Sensu, VMWare VCenter, PowerShell, ELK, HAProxy

## 1099, then LockheedMartin IS&GS (Leidos)

U.S. Army Contractor

### IT Specialist

10/2009 - 09/2016 Various Locations OCONUS & CONUS

Worked as as Senior System Administrator among other tasks on defense-related systems on both Linux and Windows. Wrote many scripts to automate repetitive and error-prone tasks, some of which became an important part of the daily work-flow. Supported any part of the system from networking up to application as outside resources were scarce and remote.

### Accomplishments

- Figure out how to make stuff work when support was limited and ability to change system configuration was restricted by strict policies
- Scripted important daily production tasks, resulting in a great reduction in human-input errors
- Created script-based tools to report on system status and help uncover discrepancies in meta-data
- Championed a Wiki for consolidating documentation
- Wrote a great deal the of site's documentation
- Facility move in an austere environment with minimal mission impact
- Maintain system's IA posture according to [DIACAP](#)
- Work with external auditors to complete routine system audits
- Report and advise leadership on mission impact with respect to IT

- Interface with vendors to support one-of-a-kind configurations in hardware and software and troubleshoot it for performance and breaks

## Technologies

Shell Scripting, Windows, Cluster Storage, Linux Clusters

## Tasks

- Process data and ensure timely delivery to analysts
- Worked with data collectors and analysts to troubleshoot issues from processing, meta-data problems or data quality
- IMO Duties
- Windows AD, Windows Desktops
- PHP & MySQL fixes and troubleshooting for custom webapp

## MotionBox (now SnapFish)

Video Hosting

### **Senior System Administrator**

*11/2008 - 10/2009* Austin, Texas

## Accomplishments

- Xymon monitoring deployment after doing live evaluation of several monitoring systems
- Network and storage selection for NYC Expansion
- Build-out Primary Datacenter Expansion
- Sun Storage 7410 integration
- Select and build DC for Austin Test Site/Expansion
- Choose and implement PkgBuild as new package management system

## Technologies

Solaris 10 Zones, Solaris Unified Storage, Mac OS X, OpenSolaris PkgBuild & [Solaris PkgSrc](#)

## Tasks

- Production Support

- Monitor Production Performance
- Assist On-site NYC as needed
- Build Solaris Packages

## NetSpend

Prepaid Debit Card Provider

### **Senior System Administrator**

*04/2008 - 10/2008* Austin, Texas

Part of System Administration team for financial institution supporting internal support infrastructure (DNS, Mail) and external production servers (Web applications/servers, databases). Primarily responsible for Solaris, and CENTOS Linux. Servers run Apache, JBoss, TomCat or standalone Java applications, and Oracle. OS and network security for hosts containing financial information. Planned outages executed to minimize impact in to customers and partners in change controlled environment running 24/7.

### **Accomplishments**

- Solaris to Linux migration
- Automate Software Deployments via Shell Scripting
- Maintain [PCI](#) compliance
- Deployed and supported evaluations for Application Performance Management between Wily Introscope & OpNet Panorama

### **Technologies**

CENTOS 5, Oracle Enterprise Linux 4, Solaris 10, JBoss, TomCat, Apache

### **Tasks**

- Deploy applications
- Troubleshoot applications
- Technical contact for partners
- Maintain production servers
- Maintain development servers and support developers
- Submit and execute change controls

- Production Support

## EXPERIENCE (PRE-2008)

### NewsStand / LibreDigital

Electronic Publishing

#### Senior System Administrator

*2/2005 - 9/2006, 11/2006 - 04/2008* Austin, Texas

System Administrator for online electronic publishing service. This company operates as an ASP. Took over maintenance of established infrastructure after loss of all incumbent support personnel. Maintain production website and products for electronic delivery of periodicals. Work closely with development for website and product code changes with minimal downtime. Manage YUM/RPM based software deployment system for in house production code changes and maintenance. Troubleshoot site performance issues. Maintain and improve systems with little spending. Plan infrastructure for improvements and supporting growth. Advise IT Director on technology issues.

#### Accomplishments

- Implement [SLACK](#) configuration management system and use it to automate configuration management tasks
- Design and deploy lights-out DR site with ability to re-provision servers remotely
- Automate via scripting and process improvements deployment of code to Staging and Production for much faster and error-free refreshes
- Implement automounter ([AM-Utills](#)) for consistent NFS namespace across Production and DR sites
- Virtualize hosts with VMWare Server to save space and power

#### Technologies

CENTOS 4, CENTOS 5, RedHat Enterprise 4, Whitebox Enterprise 3, SLACK (Config Mgmt), KickStart and Custom RPMs, Dell PowerEdge servers and DRAC remote management, EMC Celerra and EMC Clariion, NetApp StoreVault, ISILON Clustered Storage, Apache 2 webservers running products running on: ColdFusion MX 6, TomCat 5/6 and JBoss 4

## Tasks

- Deploy content and code to production web site
- Use staging and load balancers to minimize customer impact during software deployments
- Write and update shell scripts to manage daemons
- Script content migration
- Maintain development servers and support developers
- Maintain production and development backups in NetWorker 6 and NetVault 7
- Support Internet infrastructure such as SMTP (Postfix), DNS (BIND 9)
- Some Windows 2000 administration (office: users, desktops, DNS, DHCP)

## NEWISYS

Outsourced Computer Design

### **Engineering System Administrator**

*8/2001 - 2/2005 Austin, Texas*

Worked in a team supporting engineers forming a highly technical user base of electronics designers and software engineers designing Opteron based servers in a mixed UNIX, Linux and Windows environment. Built the company's UNIX infrastructure from scratch. Implement and maintain Linux-based technical computer farm for running EDA tools.

## Accomplishments

- Design, deploy and maintain of a high performance computer cluster running Sun Grid Engine on commodity servers using RedHat Linux on Athlon and then Opteron processors, my role being validating the hardware, install the OS and insure nodes where ready for the compute farm.
- Create customized Kickstart to ensure that nodes would have software version level parity with other nodes no matter when they were installed or the number of patches that are applied as OS fixes were released.
- Design and maintain systems used for software development running on Linux and Solaris.

- Used Samba and host-based authentication SSH in automation of software builds.
- Deployment of RedHat and later Fedora Core Linux by creating a Kickstart system used throughout company for servers and workstation
- Move entire computing infrastructure to new facility and transition over a weekend to be ready the following Monday.
- Created software repository that automatically mirrored updates for supported OSs nightly. Used APT-RPM and YUM to simplify process of upgrading/installing software on Linux systems

## Technologies

Network Appliance (NetApp) Filer DataONTAP administration, RedHat (7.2-9), Fedora (FC1), Solaris (SPARC/x86), Windows environment DNS (BIND), NFS, SMTP (Postfix, Sendmail) WWW (Apache) infrastructure, Create a NFS namespace that is consistent across all RedHat and Solaris hosts using Am-Utils which helped engineers obtain a consistent filesystem view across many different UNIX hosts, RedHat/Fedora provisioning using Kickstart, post install scripts, custom boot CD, custom RPMS

## Tasks

- Support software engineers working on embedded Linux and drivers for Solaris, Linux, Windows
- Compile, deploy and support Open Source applications and tools
- Linux to MS AD Kerberos inter-operation
- Consolidate test environments to VMWare Workstation and GSX.
- Migrated technical compute farm from heavily customized RedHat 7.2 on Generic Athlon servers to NPACI Rocks 3.2.0 on NEWISYS-Designed Opteron server
- Troubleshoot and fix all sorts of UNIX problems.
- Host security by audits, OpenSSH, SSH Public Key Auth

## FundsXpress Financial Network

Online Banking Service Provider

8/1999 - 8/2001 Austin, Texas

**System (UNIX) Administrator**

Part of System Administration team for Internet banking service provider supporting internal support infrastructure (NFS Homedirs,DHCP, DNS, Mail) and external production servers (Web applications/servers, databases). Primarily responsible for Solaris and RedHat Linux. External servers ran in-house Perl/Apache application,Oracle, portal server, IPlanet, etc. OS and network security for high value targets containing financial information. Planned outages executed to minimize impact in 24/7 change controlled environment.

- MIT Kerberos 5 administration
- Disaster Recovery site design and deployment especially Kerberos and DNS
- DNS (BIND) administrator hosting many domains with regular zone changes
- System design/support for Linux based "black box" that interfaced with legacy serial protocols at remote customer sites then securely transmitted financial data back for processing
- Troubleshoot performance on Solaris web application servers for Internet banking product
- Supported software developers on development servers and workstations
- Install and support enterprise and Open Source applications
- Deploy and support NetBSD and RedHat workstations
- Diverse platforms: Solaris Linux Tru64 NetBSD AIX Windows
- Create standard Solaris and RedHat installs
- Hardware: Tatung, Sun, Dell, IBM, External SCSI arrays

## **CERTIFICATIONS (Old)**

CompTIA Security+ (2008 Edition)	09/2009	Austin, TX
RedHat Certified Engineer Enterprise Linux 3 (RHCE)	04/2004	Austin, TX
NetApp System Administrator Training Data ONTAP	06/2002	Dallas, TX

System  
Administration and  
Troubleshooting

Sun Certified System 01/2002  
Admin Solaris 8  
(SCSA)

Austin, TX

Microsoft Certified 12/2000  
System Engineer NT  
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Austin, TX

## About This Resume

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