Luther Barnum

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Technical Skills

- Virtualization & Containers: VMware, Docker, Kubernetes, Microsoft Hyper-V, KVM, Oracle VM Virtualbox, ECS
- Configuration Management: Puppet, Chef, Ansible, Salt
- CI/CD: Jenkins
- Version Control: Git
- Monitoring & Logging: Nagios, ELK Stack, Zabbix, Datadog, Grafana, Prometheus, Splunk, Solarwinds
- Laod Balancers: Nginx, HAProxy, AWS ALB, F5 BIG-IP

Programming Languages

Python, Perl, Ruby, Awk, Sed, BASH, C, SQL, Go (Golang), Rust

Operating Systems

HP-UX (9 to 11.31), RHEL3 to 8, Sun 7/8, Linux SUSE, Windows Server (2003-2019), VMWare, MacOS

Certifications

RHCE, Linux+, LPIC, Casper Technician (JAMF), Apple Certified Support Professional

Professional Summary

- Possess strong troubleshooting skills, developed through extensive experience in military and manufacturing electronics, computer hardware, and software.
- Demonstrated success in managing and maintaining various software and hardware platforms.
- Proficient in programming languages, including Python, Perl, Ruby, Awk, Sed, BASH, C, SQL, Go (Golang), and Rust, with the ability to adapt and learn new languages as needed.
- Experienced in operating systems such as HP-UX (9 to 11.31), RHEL (3 to 8), Sun (7/8), Linux SUSE, Windows (2003-2019), VMWare, and MacOS.
- Skilled in virtualization technologies, including VMware, and backup solutions like Veritas NetBackup.
- Familiar with databases such as Oracle, PostgreSQL, MySQL and web servers like Apache and Nginx.

- Proficient in DevOps automation tools, including Puppet, Chef, Ansible, and Salt.
- Knowledgeable in various hardware components and systems, including motherboards, monitors, video cards, SCSI, SAN environment, Sun workstations, HP servers, and more.
- Holds multiple certifications, such as RHCE, Linux+, LPIC, Casper Technician (JAMF), and Apple Certified Support Professional.
- Motivated, detail-oriented, and committed to staying current with the latest technologies and methodologies in the field.

Professional Experience

Blockspaces - Tampa, FL
Senior DevOps Engineer | Dec 2021 to Present

- Managed 11,000-server POKT Blockchain Environment.
- Maintained Ethereum, Optimism, and Bitcoin Blockchain environments.
- Automated server deployment using Ansible, Bash, and Python across AWS, Alibaba Cloud, Digital Ocean, and Oracle Cloud.
- Administered Jenkins Environment and streamlined Pipeline builds for developers.
- Built and maintained ELK Stack for application logging.
- Implemented application deployments using custom Docker containers and Kubernetes.
- Deployed and managed Hashicorp Vault.
- Managed Datadog Cloud installation and monitoring.
- Installed and maintained Zabbix Environment.
- Manages all Docker and Kubernetes used for all customer facing applications
- Manages all Jenkins CI/CD Pipeline used for all stages of development
- Built and mages Zabbix environment
- Built and managed AWX (Ansible Tower equivilent)

Alphapoint - New York, NY
DevOps Engineer | Sep 2021 to Dec 2021

- Administered Jenkins Environment and streamlined build automation for developers.
- Built andmManaged ELK Stack for application logging.
- Automated application deployments using custom Docker containers.

Vertex Aerospace LLC, Madison, MS
Sr. Systems Engineer | Dec 2019 to Sep 2021

- Managed SolarWinds Monitoring Environment, including SQL Database maintenance and custom SWQL Queries.
- Administered Splunk Environment with custom queries and dashboards.
- Built and maintained Elastic Stack Cluster Environment, including custom

queries and dashboards, and data reception from Windows, Linux, and network devices.
- Managed SAP Linux environment running on RedHat Linux (RHEL 7 and RHEL 8).
- Automated server and application deployment in VMWare Environment using Ansible, Packer, Terraform, and Make.
- Automated bank transfers with Python encryption and decryption over SSH/SFTP connections.
- Managed AWS and Azure Gov environments using automation with Terraform, Ansible, and custom data transfer scripts.
- Maintained Gitlab server for version control of critical static environments.
- Conducted penetration testing with custom Docker tools and configurations.
- Managed F5 Cluster.

QTR Systems, Palm Harbor, FL
Senior Systems Engineer | Feb 2017 to Oct 2019

- Managed Nagios Environment with 30+ OMD Workers and custom monitoring scripts in Shell, Python, Perl, and Go.
- Worked on various projects including software development, hardware engineering, quality assurance, DevOps, and technical support.
- Utilized .Net on Windows infrastructure, Azure, and iOS development with a focus on BLE RTLS.
- Implemented .Net on Docker infrastructure to support future migration.
- Led effort for troubleshooting Windows and Linux server performance using Wireshark, MongoDB, and RabbitMQ.
- Guided build process automation to reduce production server build times using Ansible and Desired State.
- Migrated storage to HP and EMC storage platforms and managed Hyper-V and VMWare environments.
- Automated Mac and iOS deployments using JAMF and AirWatch MDM products.
- Managed Ubuntu and CentOS/Redhat server deployments and maintained Docker environment.
- Performed network troubleshooting with Wireshark and TCPDump.
- Managed DNS environment in Active Directory and BIND.
- Earned Linux+, JAMF 300, and Apple Certified Professional certifications.

Jabil Circuit, St. Petersburg, FL
Linux Engineer III | Feb 2015 to Feb 2017

- Served as Level 3 System Administrator for daily Linux environment operations.
- Focused on automation using Puppet, Ansible, and Salt for server building and configuration compliance.
- Managed and maintained open-source technologies like HAProxy and Spacewalk.

- Reviewed and documented daily procedures for Linux deployment and operations.
- Handled server hardware from HP, Dell, and other vendors, including firmware, setup, and monitoring.

Citi Group, Tampa, FL
Senior Unix Administrator | Nov 2014 to Feb 2015

- Functioned as a Level 3 System Administrator, focusing on advanced troubleshooting and guiding Level 2 personnel through system maintenance.
- Developed and maintained scripts for task automation.

Trinet/Gevity, Bradenton, FL
Sr. Unix Administrator | Nov 2004 to Nov 2014

- Managed and administered HP and RedHat Linux servers, including DNS/BIND, NetBackup, VMWare ESX and ESXi, Apache/Tomcat, and Subversion.
- Oversaw server hardware maintenance, including HP and Dell servers, firmware updates, setup, and monitoring.
- Developed automation scripts for monitoring and snapshots, interfacing with Hardware API and SNMP.
- Monitored server backups and errors, and addressed issues as needed.
- Wrote scripts and programs in various languages to perform tasks as required.
- Worked closely with HP Support for critical support and contract renewals.
- Member of the Disaster Recovery Team, responsible for VMWare and all Unix/Linux recovery.
- Managed disk provisioning using XP12K and EVA Storage, and maintained storage for various technologies, including EVA, XP, and 3PAR Storage.
- Handled SAN Switch zoning, using Brocade switches with Fiber Channel, and wrote automated snapshot interfaces for storage backups using Perl and Python.
- Participated in Disaster Recovery Team activities at recovery sites and traveled to company sites to set up and remove hardware as needed.
- Contributed to technology decision-making and recommended technologies and hardware during refreshes.
- Maintained MYSQL and PostgreSQL databases for various applications and developed custom monitors for HP OpenView.
- Implemented HP Matrix private cloud and designed and implemented Puppet for Linux virtual server deployment and maintenance.
- Managed RedHat Satellite Server for kickstart and patch management, and built and maintained on-site Git Repository using Gitlab.

Verizon Data Services, Temple Terrace, FL
Sr. Unix Administrator/Contractor | Jul 2004 to Nov 2004

- Participated in verifying Tivoli Configuration Management installation for all Data Center Servers, including AIX, Solaris, HP-UX, and Redhat

Linux.
- Automated and created scripts for repeated tasks using Perl, ksh, sed, and Awk.
- Identified root causes of failures, repaired, and documented issues.
- Troubleshot firewall access, logfile analysis, and software installation issues.