Luther Barnum

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Professional Summary

- Over 25 years of enterprise experience automating infrastructure and application deployments across Linux, Unix, and Windows environments using Ansible, Terraform, Puppet, and custom scripting.
- Managed large-scale blockchain infrastructure with 11,000+ servers across AWS, Azure, Digital Ocean, Alibaba Cloud, and Oracle Cloud, scaling from 3,000 to 11,000 servers within 4 months.
- Extensive experience with containerization and orchestration using Docker and Kubernetes (EKS), CI/CD pipelines with Jenkins, and comprehensive monitoring with ELK Stack, Datadog, Zabbix, and Prometheus.
- Strong programming skills in Python, Go, Bash, and Perl, with proven ability to develop automation tools, monitoring scripts, and infrastructure-as-code solutions.
- U.S. Navy Veteran (Sonar Technician E-5, 1984-1990) with Secret Security Clearance eligibility.

Technical Skills

Cloud Platforms: AWS, Azure, Azure Gov, Digital Ocean, Alibaba Cloud, Oracle Cloud

Containers: Docker, Kubernetes, EKS, ECS, Hyper-V, VMware ESX/ESXi, KVM

Configuration Mgmt: Ansible, Terraform, Puppet, Chef, Salt, AWX, Packer

CI/CD: Jenkins, GitLab CI, Octopus Deploy

Monitoring: Nagios, ELK Stack, Zabbix, Datadog, Grafana, Prometheus, Splunk, SolarWinds

Load Balancers: Nginx, HAProxy, AWS ALB, F5 BIG-IP

Databases: PostgreSQL, MySQL, Oracle, RDS

Programming: Python, Go, Bash, Perl, Ruby, C, SQL, Rust

Operating Systems: RHEL 3-8, Ubuntu, CentOS, HP-UX (9-11.31), MacOS, Windows Server

Certifications

Red Hat Certified Engineer (RHCE), CompTIA Security+ CE, CompTIA Linux+, LPIC, Casper Technician (JAMF 300), Apple Certified Support Professional

Professional Experience

Pole Star Global   St. Petersburg, FL
Staff DevOps Engineer   *Jun 2023 – Present*

- Manage AWS cloud infrastructure for U.S. Coast Guard environment operating at IL2/IL5 security levels.
- Implement and maintain Kubernetes clusters and container orchestration for mission-critical applications.
- Administer on-premises GitLab CI/CD pipelines for secure development workflows.
- Develop and maintain infrastructure-as-code using Terraform for consistent, repeatable deployments.
- Implement comprehensive monitoring and observability solutions across the environment.

Blockspaces   Tampa, FL
Senior DevOps Engineer   *Dec 2021 – Jun 2023*

- Provisioned and managed 11,000-server POKT Blockchain environment using Ansible and Python, scaling from 3,000 to 11,000 servers in 3-4 months across AWS, Alibaba Cloud, Digital Ocean, and Oracle Cloud.
- Implemented multiple EKS clusters using eksctl and Terraform; managed all containerized customer-facing applications with Docker and Kubernetes.
- Maintained Ethereum, Optimism, and Bitcoin blockchain environments using Ansible and Docker.
- Built and maintained ELK Stack for application logging; deployed Hashicorp Vault on EKS and EC2.
- Administered Jenkins CI/CD pipelines for all stages of development; managed Datadog and Zabbix monitoring.
- Managed AWS IAM, Route 53, Global Accelerator, RDS PostgreSQL instances, and multi-region S3 replication.
- Migrated 11,000 servers to individual Docker containers with Nginx routing, reducing cost and footprint.

Alphapoint   New York, NY
DevOps Engineer   *Sep 2021 – Dec 2021*

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

Vertex Aerospace LLC Madison, MS
Sr. Systems Engineer *Dec 2019 – Sep 2021*

- Managed Linux and Windows environments in VMware and AWS/AWS Gov EC2 instances using Ansible, Bash, and Python.
- Automated server and application deployments using Ansible, Packer, Terraform, and Make.
- Built and maintained Elastic Stack cluster with custom queries and dashboards for Windows, Linux, and network devices.
- Administered Splunk and SolarWinds monitoring environments with custom SWQL queries.
- Managed SAP Linux environment on RHEL 7/8; maintained Oracle environment with RMAN backups.
- Automated bank transfers with Python encryption/decryption over SSH/SFTP connections.
- Managed F5 cluster and Gitlab server for version control of critical environments.

QTR Systems Palm Harbor, FL
Senior Systems Engineer *Feb 2017 – Oct 2019*

- Implemented Ansible automation for Linux and Windows environments across customer consulting contracts.
- Managed Nagios environment with 30+ OMD workers and custom monitoring scripts in Shell, Python, Perl, and Go.
- Deployed and automated Linux builds using Ansible and Terraform in AWS EC2 and Azure VM.
- Implemented Oracle databases on physical and virtual environments; managed Hyper-V and VMware environments.
- Led build process automation to reduce production server build times using Ansible and Desired State Configuration.
- Automated Mac and iOS deployments using JAMF and AirWatch MDM products.
- Earned Linux+, JAMF 300, and Apple Certified Professional certifications during this role.

Jabil Circuit St. Petersburg, FL
Linux Engineer III *Feb 2015 – Feb 2017*

- Level 3 System Administrator responsible for daily Linux environment operations.
- Focused on automation using Puppet, Ansible, and Salt for server building and configuration compliance.
- Converted Puppet environment to Ansible and trained staff on building Roles and Playbooks.
- Managed open-source technologies including HAProxy and Spacewalk.
- Handled server hardware from HP, Dell, and other vendors, including firmware and monitoring.

Citi Group Tampa, FL
Senior Unix Administrator *Nov 2014 – Feb 2015*

- Level 3 System Administrator focusing on advanced troubleshooting and directing Level 2 personnel.
- Developed and maintained scripts for task automation.

Trinet/Gevity Bradenton, FL
Sr. Unix Administrator *Nov 2004 – Nov 2014*

- Managed HP and RedHat Linux servers including DNS/BIND, NetBackup, VMware ESX/ESXi, Apache/Tomcat, and Subversion.
- Designed and implemented Puppet for Linux server deployment; later implemented Ansible for additional automation.
- Member of Disaster Recovery Team responsible for VMware and Unix/Linux recovery; traveled to DR sites.
- Managed storage technologies including EVA, XP, and 3PAR; handled SAN switch zoning with Brocade switches.
- Implemented HP Matrix private cloud for Linux virtual server deployment.
- Maintained MySQL and PostgreSQL databases; developed custom monitors for HP OpenView.
- Built and maintained on-site Git repository using GitLab; managed RedHat Satellite Server.

Verizon Data Services Temple Terrace, FL
Sr. Unix Administrator (Contractor) *Jul 2004 – Nov 2004*

- Verified Tivoli Configuration Management installation for 4,000 Data Center servers (AIX, Solaris, HP-UX, RedHat Linux).
- Automated tasks using Perl, ksh, sed, and Awk; identified root causes of failures and documented issues.

Home Shopping Network St. Petersburg, FL

Unix Administrator (Contractor)   *Jan 2004 – Mar 2004*

- Monitored systems in Operations Center; provided Unix expertise and training for Operations staff.
- Wrote procedures for transitioning staff from Mainframe to Unix and Windows responsibilities.

Brighthouse Networks   Brandon, FL
Systems Administrator   *Oct 2003 – Dec 2003*

- Troubleshot Video on Demand servers (Sun/Solaris, Linux) for Hillsborough and surrounding counties.
- Wrote automation scripts in Perl and Python for reporting functions.

Breed Technologies   Tampa, FL
Data Center Manager / Sr. Unix System Administrator   *Jun 1999 – Jun 2003*

- Managed team of 5 (2 Unix Admins, 2 NT Admins, 1 Operator) on 24/7 on-call schedule.
- Designed and implemented SAN and backup environments; performed all SAN administration and auditing.
- Migrated Data Centers from DEC/Compaq and HP Unix systems to new HP servers; consolidated European and Michigan data centers.
- Implemented Nagios and Big Brother monitoring; wrote custom plugins in C and Perl.
- Set up primary DNS server using BIND; administered Samba server for European plant connectivity.

GTE Data Services   Tampa, FL
Unix System Administrator (Consultant)   *Jan 1999 – Jun 1999*

- Administered Unix systems (HP-UX 9-11, AIX 3.2.5-4) including reboots, maintenance calls, user management, and monitoring.

Jabil Circuits   St. Petersburg, FL
Engineering Test Technician   *1995 – Feb 1999*

- Progressed from Bench Technician to Circuit Test Engineer; wrote tests for board components including PCL and Boundary Scan digital chips.
- First exposure to Unix on HP Unix servers supporting test platform.

Group Technologies   Tampa, FL
Night Shift Supervisor / Bench Technician   *Jun 1992 – Jun 1995*

- Advanced from Bench Technician to Night Shift Supervisor; performed component-level troubleshooting on motherboards, network boards, and video cards.

Circuit Test   Oldsmar, FL
Bench Technician / Team Lead   *Dec 1990 – Jun 1992*

- Performed television and display monitor troubleshooting; promoted to Team Lead after one year.

US Navy
Sonar Technician (E-5)   *May 1984 – Nov 1990*

- Senior technician responsible for team of 10+ technicians; performed component-level electronic troubleshooting.
- Held Secret Security Clearance.