

Byron Albert

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Technologies

- AWS Certified Solutions Architect – Professional, AWS Certified DevOps Engineer – Professional
- MySQL, PostgreSQL, MongoDB, DynamoDB, and RabbitMQ
- Linux (RedHat, CentOS, Suse, Ubuntu, and others)
- Configuration and Infrastructure management with Chef, Puppet and many other tools.
- Amazon EC2, S3, Glacier, RDS, Lambda, DynamoDB, IAM and VPC's
- IBM WebSphere DataPower SOA XML Appliance
- Data Center design, building, architecture, and cloud migrations/integrations
- C, Java, C++, PHP, Perl, Ruby, Python, Node.js, and XSLT
- Bash, Zsh, Korn, Bourne, awk, sed, grep, and other tools.
- TCP/IP, NAT, Routing, HSRP, VRRP, BGP, BigIP F5 LTM/GTM
- NAS, NFS, Samba, SAN, iSCSI, ATOE, FCOE, Fiber Channel, DAS Storage, FusionIO, and EMC
- Virtualization and Cloud technologies including Amazon web services, VMWare and other hypervisors
- Apache, Bind, Sendmail, Postfix, Qmail, Exim, proftpd, sshd, ClamAV, SpamAssassin, DenyHosts, HAProxy

Experience

Senior Cloud and DevOps Engineer

July 2018 – Current

RoundTower Technologies Nashville, TN

- Worked as consultant with both Cloud and DevOps tasks
- Cloud migration assessments utilizing Risk Networks products
- Used Cloud Formation and Terraform to help clients implement best practices with AWS
- Certified with AWS Service Catalog to enable end user self service
- Lead Chef training workshop, explaining Test Driven configuration management best practices

Director of DevOps

Feb 2014 – July 2018

Raven Tools / tapClicks Nashville, TN

- Manage migration of legacy infrastructure to EC2 and AWS Managed Services
- Manage Security for infrastructure
- Worked as main Ops focused engineer on small team managing full AWS infrastructure
- Migrated all infrastructure from EC2-Classsic to VPC
- Migrated Rightscale managed instance based MySQL databases to RDS
- Worked to continuously update cookbooks removing legacy dependencies and simplifying deployments
- Built and Secured VPCs creating site to site and client VPN solutions utilizing OpenVPN
- Created local office database slave for business testing and backups
- Engaged with and in development to fix bugs and develop new features
- Used Chef and AWS daily

Operations Engineer

Sept 2011 – Feb 2014

edo Interactive Nashville, TN

- Worked with infrastructure and development to deploy, optimize, and scale application
- Managed infrastructure projects to move production environment from VMware to KVM
- Helped migrate non-production environments from local VMware and KVM to EC2 instances in an Amazon VPC
- Worked on a team that implemented hosted Opscode Chef deployment systems and maintain it.
- Utilized FusionIO devices to scale IO on our database infrastructure
- Managed the EMC VNX and NS20 san systems
- Implemented a 20 node Hadoop cluster with over 150TB of storage

System Architect

Jan 2010 – Aug 2011

Dealer.com Burlington, VT

- Worked in a team of Engineers and Architects to maintain a 200+ server production datacenter and medium to large scale dev/test/QA environment, made up of mostly RedHat and CentOS
- Built a large virtualization environment utilizing the latest VMware, HP, and Dell tools and hardware
- Implemented a MongoDB NoSQL database and RabbitMQ messaging and queuing system
- Maintained and deployed Apache, Tomcat, Jetty, and HAproxy services
- Worked to evaluate, install, and integrate new SAN and NAS technologies
- Managed migration of the datacenter, including scheduling downtime while servers were moved, cabling and connectivity, and selecting racks and PDU's

Senior Consultant

Nov 2006 – Dec 2009

Prolifics New York, NY

- Worked with clients to deploy IBM WebSphere DataPower SOA XML appliance, including planning physical and logical placement in datacenter and network, and implementations of data flows
- Used DataPower and MQ to create a simple Enterprise Service Buss (ESB) environment to bring new applications into a Service Orientated Architecture (SOA) so future applications could integrate with existing services
- Integrated DataPower with many different authorization sources including Active Directory based LDAP, TAM, TIPCO, and Kerberos
- Used DataPower to do any-to-any data conversion including xml-to-copy book, and XML to RPG data files
- Worked with DataPower to provide Payment Card Industry (PCI) compliance to customer environments

Senior System Engineer

Dec 2004 - Oct 2006

inSite Technology Group / Tribeca Tables Baltimore, MD

- Responsible for the day-to-day maintenance and implementation of Linux servers that ran an online poker room network, including 25 Oracle servers, 150 application servers, and 25+ web servers
- Managed BigIP F5 and Cisco CSM load balancers and SSL decryption hardware
- Managed multiple VERITAS Net Backup servers utilizing a san infrastructure to backup directly to tape library
- Managed EMC CX700 and CX300 san storage subsystems including managing the san switching infrastructure
- Installed a managed Fiber Channel Solid State disk system for use in database servers
- Implemented two datacenters from ground up, including picking providers, racks, servers, networking, storage etc.

System Engineer

June 2000 - Dec 2004

Jupitermedia / internet.com Darien, CT

- Responsible for maintaining of all Linux resources, including approximately 25 Linux servers and 20 Solaris UNIX servers.
- Responsible for patching and tuning operating systems, installation of custom Apache and PHP builds, installations of Perl, and setting up Apache virtual hosts
- Served as technical lead on our Adserver move from NetGravity to RealMedia Open Adstream, including using mysql and Linux to migrate from a Solaris Oracle solution to a Linux MySQL solution to save hundreds of thousands of dollars in licensing fees

Education

Rochester Institute of Technology
Rochester, NY

Aug 1999 – July 2000

- Developed expertise in Java and the steps involved in programming large projects
- Hired as first freshman Computer Science Lab Assistant
- Aided students with UNIX and programming questions

Affiliations & Interests

- Woodworking and Woodturning
- Eagle Scout
- Amateur Radio Operator – KB8WOK
- Skiing, Biking, Kayaking
- Amateur auto racing with regional SCCA