

James Loosli

loosli@gmail.com | 949.439.6109 | <http://github.com/roosri>

Skills and Experience Summary

- Puppet/Saltstack infrastructure automation
- Experienced AWS Engineer
- Python, Ruby, Perl, Bash backend development
- CI/CD for applications written in: NodeJS, ReactJS, Java, Go
- 24/7 Support Team experience
- RedHat and Debian-based Linux distributions
- DNS Configuration and Management

Work History

Soxhub, Inc

10/2017 – Current

Devops Engineer

- Built operations-specific replica of current infrastructure for testing in a separate AWS account. AWS components included RDS, Route53, EC2, VPC, IAM, Certificate Manager, Cloudwatch and Lambda.
- Created additional dashboards and alerts in Sysdig to capture rates of HTTP failure responses, concurrent RDS connections.
- Wrote a short bash script to update the firewall of an AzureDB instance. Created a daemonset definition using Helm to run that script on Kubernetes, which would dynamically allow network access to Azure for our Kubernetes nodes.

Hart, Inc

01/2016 – 10/2017

Devops Engineer

- Supported legacy AWS applications running on CodePipeline, CodeDeploy, ElastiCache, RDS, Elastic Beanstalk and other Amazon-specific services.
- Audited S3 bucket permissions, tuned IAM profiles for users and applications, created new buckets as required.
- Initiated and led a ground-up refactor of the entire cloud-based infrastructure.
- Built a representation of our virtual networking and security groups in Saltstack “pillars”, then built automation around that data to deploy virtual networks. This included EC2 VPC’s, Subnets, Gateways, Security Groups and Routing tables.
- Created EC2 instance profiles for initial infrastructure, later made templates for instance profile creation.
- Prototyped, deployed and automated deployment of Consul for service discovery, implemented a small service check library in python as a helper for registration.
- Built a CI pipeline based around RPM packages using Jenkins and FPM. Expanded pipeline to cover Java, Go, NodeJS, and React-powered microservices and frontends.
- Configured Github webhooks to automatically trigger Jenkins builds.
- Wrote a simple set of modularized Salt states which deployed each microservice, and

registered it with service discovery.

- Evangelized and participated in a weekly production release process that ensured that code releases went smoothly on a technical level and on a human level.
- Rebuilt elasticsearch automation to run on Triton (Smart DataCenter).
- Overhauled CI pipeline based on docker containers using docker-compose and Gitlab running on Triton.

Instant Channel

06/2013 – 12/2015

Linux Systems Engineer

- Automated entire infrastructure from manual deployment and configuration to Puppet-based, hands-free infrastructure system. Deployment flexibility allowed for a geometric increase in infrastructure resources.
- 6 months after being hired, mail delivery staff was increased to utilize the increased available resources, and revenue increased from \$200k monthly net to a peak of \$500k monthly.
- After automating the infrastructure, the role shifted to backend development and resource management.
- Prototyped the current mainline mail delivery process, which saw peak monthly revenues of over \$1 million, 12 months after being hired.
- Negotiated lower rates for leased IP blocks by 50%. Aggressively pruned unneeded infrastructure and migrated lower-load services (LDAP, Puppetmaster, Internal webapps) to virtual machines. Saved nearly \$400k per year in infrastructure and IP costs while tripling the resources available for mailing.
- Negotiated lower domain purchase rate from \$15.00/year to \$10.00/year, then later to \$9.00/year, saving \$72,000 per year on domains alone.
- Oversaw development of IP address management software after writing the server-side backend and prototyping IP over GRE tunnels.
- Currently prototyping domain-management software. Responsible for the server-side code which can interact with multiple registrar APIs (enom, namecheap, godaddy).
- Responsible for the uptime of over 10,000 individual domains, and ~16,000 IP addresses.
- Built an end-to-end development pipeline with multiple environments, easy rollback and unit testing for Puppet, web-facing apps, internal apps, and server backend code using JenkinsCI.
- Built an SSH-secured APT package repository for dead-simple application installation on our debian systems for both production and testing environments.

Adconion Media Group - Blackstar

02/2011 – 5/2013

Linux Systems Administrator

- Part of a team that handled email delivery for Disney, Samsung, AT&T, match.com and others.
- Created an exceptionally large load-balanced email delivery network, delivering over 100 million messages daily, utilizing otherwise wasted IP space.

- Created a reporting pipeline for personal delivery statistics that eventually replaced the company's entire revenue report handling over 3 million monthly user actions, tying them to payable actions.
- Accurate reporting was attributed for a sharp uptick in monthly gross revenue, as offers were selected for revenue and conversions instead of simple click targets.
- Automated most of the day-to-day email delivery tasks using Bash and PHP.
- Constantly re-built and analyzed email templates for consistent delivery.
- Aggressively ensured that emails were can-spam compliant, while still maintaining delivery targets.
- Trained another staff member to take over statistics reporting.
- Moved to the operations team from mail delivery team.
- Specific responsibilities included domain acquisition, domain management and DNS management for 200 individual PowerDNS nameservers.
- Used and managed servers using Puppet, Deployed remote servers with Puppet
- Worked as part of an on-call team that provided 24/7 support for around the clock operations.
- Configured mailservers running PMTA, Zimbra, Postfix.
- Configured DNS-Related email verification methods such as DMARC, DKIM/DomainKeys, SPF.
- Debugged IP GRE Tunnels.
- Leveraged Jenkins server to build projects and create better development pipelines.

Education:

Woodbridge High School, Graduated Class of 2004

Volunteer and Other Experience:

Sergeant, USMC Reserve, 2005-2013

Missionary, Poland Warsaw Mission, 2009-2010

