

Damian Zaremba

Summary

Experienced, driven and professional Linux Systems Engineer, constantly looking to improve service and run at the edge of technology.

Passionate about complex high throughput distributed systems (especially low latency/real time), solution design, testing, Linux, opensource, monitoring, metrics and graphing.

Interested in ITIL methodologies for service management, Agile methodologies for development life cycle/workflows and software testing/building strategies.

Technical goals include attaining CCNA, CCNP, RHCA, RHCDS and RHCSS certification as well as learning C and focusing on kernel level optimisation/modules.

Professional Experience

- Linux administration on RHEL/Debian based distros
- Application development/scripting
- End-to-End troubleshooting
- Issue escalation and SLA handling
- Designing and implementing redundant architecture
- Server, application and network monitoring via threshold alerting, graphing and trending.
- Programming in Python, Perl, Bash
- Config management via Puppet
- Authentication/authorization management via LDAP/RADIUS
- Software versioning/build management
- System integration

Specialties

- Linux distributions (Red Hat, CentOS, Debian etc)
- Software packages such as Apache, Nginx, HAProxy, LVS, KVM, Pacemaker, MySQL, DNS, Exim, Icinga, RANCID, etc.
- Solution design

- Service monitoring
- Metric collection/graphing/trending/reporting
- Bespoke configurations including HA and clustering

Employment History

MUSIC Group - Systems Engineer

Oct 2012 - Current

Supporting world-recognized pro audio brands such as MIDAS, Klark Teknik, Turbosound, Behringer and Bugera.

- Mixed Operations/engineering role covering all levels of the infrastructure
- Managing a complex heterogeneous infrastructure based upon VMware
- Implementing service monitoring and metric collection systems (MRTG, Smokeping, Icinga, Graphite, PRTG)
- Troubleshooting layer 2/3 network issues across multiple sites (combination of P2P MPLS links (L2 & 3), MPLS cloud and GRE tunnels connected via a mix of OSPF and static routes)
- Developed custom integration (Icinga to ServiceDesk for ticketing, Pager-duty ack's to Icinga ack's for alerts), plugins (VMware hardware checking, Oracle ESSO transaction level checking) and templates (network devices, server roles etc) for monitoring systems
- Developed a custom roster system based around email DL's for Openfire, based on business requirements
- Developed numerous scripts for auditing and policy enforcement purposes
- Automated manual tasks to increase reliability
- Maintained binlog based replication on multiple MySQL clusters
- Dealt with multiple outages relating to VMware/DNS/Network/Disk availability
- Developed strategies for operating system deployment and management globally
- Packaged and maintained numerous pieces of software into DEB and RPM files for distribution

- Developed strategies for enforcing change control within a configuration management setup (gating/testing changesets, peer review, environment isolation)
- Diagnosed multiple issues with an Oracle ESSO deployment
- Implemented RANCID based backups for network device configs

Sub 6 Limited - Lead Systems Administrator

Oct 2011 - Aug 2012

- Lead the sysadmin side of the UK/US based managed hosting companies
- Handled escalated issues, complex solutions, monitoring and reporting requirements
- Integrated multiple services into the asset mangement system to cut down on manual sets and automate process
- Introduced continuous integration into the development workflow
- Rolled out Puppet for configuration management
- Handled configuration of the switched network (trunk/aces ports, vlans etc)
- Rolled out LDAP and Radius for centralized authentication
- Developed custom features for Kayako and WHMCS
- Introduced Graphite and exposed monitoring metrics to clients
- Increased security across the entire platform (PBX, DNS, Billing, client servers)
- Implemented rolling password changes on a twice weekly basis
- Custom built an IP based FTP access manager
- Custom built a version manage for 4 PHP versions
- Custom built a gatekeeper service to display holding pages for clients during a datacenter move
- Developed numerous custom solutions for clients

AllGamer, LLC - Freelance systems administrator and developer

November 2010 - September 2011

- Advised on system automation and maintenance
- Integrated systems into the CRM
- Assisted in service issue diagnostic and resolution
- Assisted on service and metric monitoring (Nagios, SNMP, RRDTool, SmokePing)
- Development of community tools
- Programming of system utilities

Calyx - Unix/Linux systems administrator

April 2011 - May 2011

- Responsible for a RHEL5 RHCS setup
- Managed Apache, TomCat, JBoss, Oracle 10G, MySQL
- Provided on-call support
- Provided users support in a third line capacity
- Successfully identified and resolved memory leaks within the application servers
- Managed Xen and Citrix Xenserver deployments
- Debugged tomcat logs to identify root causes of application issues
- Implemented process monitoring of background workers to ensure a responsive application

Freelance Linux Systems Administrator

Nov 2010 – Oct 2011

- Managed a Red Hat cluster suite setup
- Handled custom Tomcat/Apache based applications
- Wrote NimBUS/Nagios based monitoring checks

- Managed multiple account migrations
- Automated away process
- On-call for escalated issues
- Worked in a structured ITIL based framework for handling change
- Developed monitoring for application edge cases by working closely with 3rd parties

CloudFlux - Systems Engineer/Developer

October 2010 – May 2011

- Implemented service monitoring and performance graphing
- Developed a management framework
- Automated management tasks
- Managed backups of multiple servers
- Provided users support in a second/third line capacity
- Migrated from Xen to KVM
- Managed a KVM based virtualized server
- Migration of SVN to Git

UKFast - Linux Engineer

Feb 2010 – Oct 2010

- Provided support in a 3rd line capacity
- Handled technical pre-sales and server setups
- Maintained SLAs
- On-Call/Out of hours work
- Managing custom platforms, cPanel, Plesk, IIS, Apache, HAProxy, Nginx, LVS
- Configured and managed multiple Database and File replication solutions
- Dealt with multiple, geo-graphically redundant sites with solutions spanning across 2 or more
- Handled network and power issues on a datacenter level
- Solely responsible for investigating and resolving alerts during out of hours

Rawr IRC - Developer

December 2009 – October 2010

- Developed a custom services framework
- Integrated social media and forums into IRC
- Designed user engagement tools, such as live mapping of activity
- Wrote multiple maintenance scripts
- Managed 2 UnrealIRCd nodes

Xinos - Network Administrator

January 2009 – February 2010

- Startup offering shared hosting to Geeks
- Provided managed Shoutcast, DNS and Web hosting
- Maintained a KVM and XEN based virtualization environment
- Managed Nginx, Varnish, Bind9, MySQL, Exim, cPanel
- Automated parts of the account management system
- Integrated services for abuse monitoring
- Wrote custom resource accounting and file scanning services

NYCC - Desk side support

Oct 2008 – March 2009

- Provided ‘hands on’ support to end users
- Delivered hardware upgrades
- Performed device installation/configuration
- Assisted in large scale network upgrades
- Worked with multiple teams to ensure issues were resolved
- Handled the configuration of PGP based encryption for remote devices
- Working across the county individually and as part of a team

Education

Firebrand Training

2010

I completed a number of courses at Firebrand to expand my knowledge on computer security and hardware fundamentals.

This resulted in my gaining Comptia A+, CEH and LPIC level 1/2 certifications.

Rossendale School

2002 - 2009

I completed GCSEs in ICT (A), Mathematics (D) and key skills exams.

In my spare time I also assisted in the network administration, involving a single windows server 2003 DC, two Linux servers and around 50–70 desktops running a mix of windows 2000 and XP pro.

This involved me writing numerous scripts (bat/vbs) to do simple actions such as mapping drives or configuring proxies via group policy.

Volunteering experience

The Scout Association

December 2006 - Current

- Assistant Scout Leader
- Assist with program creation and delivery
- Teach new skills
- Perform building and equipment maintenance
- Ensure meetings take place safely
- Activity instructor for climbing
- Assist local camp sites, district, county and groups at large events

References

Available upon request

Misc

- Full UK driving license
- UK passport

See Also

- GitHub - damianzaremba
- Last.fm - damianzaremba4
- LinkedIn - damianzaremba
- Website - damianzaremba.co.uk