

## Summary:

Linux administrator and trainer with fourteen years of experience. Building and maintaining robust, agile and scalable Linux infrastructure with a focus on Linux customization, core technology infrastructure, automation, and training.

**Derek C Carter**

Sr Linux Administrator

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## Experience

### Goozbach Infrastructure Solutions, LLC

**Linux Infrastructure Consultant and Instructor – December 2011 – Present** Owner and primary consultant of successful Linux Consulting and training company providing support and best practices for companies in the telecommunications, training and technology fields. Customers include RedHat training partners, Linux Foundation, Endosys, Schmooze Communications and others. Customer environments range from dozens to thousands of servers.

Services provided include system updates, configuration management, installation automation, Bash and Python scripting, training delivery, training course development, and other systems administration tasks.

- Consulting customers on DevOps policies, procedures, and tools, using continuous integration (Jenkins), unit testing (Test Anything Protocol, Rspec), configuration management (Puppet, Ansible, CFengine, Salt), and installation automation (Cobbler, PXE, Kickstart)
- Creating and maintaining virtualization and “private clouds”, utilizing OpenStack, SolusVM, OpenShift, Vmware, and VirtualBox
- Automating and scripting system administration tasks using Bash, Python, cron and at.
  - Authored open source [Bash libraries](#) and [Bash scripts](#) for ease of scripting tasks such as creating VM templates, managing Cobbler profiles, and other systems tasks.
- Developing Linux systems administration training courses for customers such as The Linux Foundation using LaTeX, ConTeX and Docbook.
  - Course topics include [Linux Automation](#), and [Linux Network Management](#).
  - Course creation includes slides, books, lab exercises, and virtual server environments.
- Delivered Linux systems administration training courses and proctored exams for RedHat training partners.

### Coraid

**QA Engineer and Tools Developer – February 2010 – March 2012** Quality assurance engineering, testing, and tool/platform development, with some focus in product market fit for an Ethernet SAN Storage company. Helped manage QA lab environment of approximately 100 servers and appliances.

- Testing releases of Coraid HBA drivers for Solaris, OpenIndiana, Nexenta, Windows, and Linux platforms; integrating Coraid storage with ZFS on Solaris based systems and Linux LVM.
- Testing firmware updates for Coraid appliances.
- QA tool and platform engineering
  - Building an installation automation system using Cobbler to make installing and testing easier and faster.
  - Integrating Cobbler into a [Plan9 based PXE and DHCP environment](#).
  - Designing and implementing automated QA testing script frameworks built in Bash and Python.
  - Designing and installing a new testing data center.

## Cox Media Group Digital

**Sr Systems Administrator – August 2007 – February 2010** Managing day to day operations, capacity planning, operations budgeting and operations team lead for a leading media and publishing company with digital presence for Radio, TV, Newspaper, and direct marketing.

- Managing business merger.
  - Migrating diverse code bases from SVN, BZR, CVS and others to Git.
  - Building collaboration tools (IRC server, mailing lists, Request Tracker).
  - Designing new server platform for new business entity.
- Managing 100+ Linux servers serving 150+ high-traffic websites.
  - Built automation and configuration management systems using Cobbler and Puppet.
  - Migrating ops and dev teams from CVS to SVN.
  - Building and improving deployment utilities cutting down on deployment time.
  - Building proper DEV/QA/Staging/Production environments using KVM, Vmware, and Xen virtualization.
  - Building and improving continuous integration testing and monitoring systems.
  - Managing public DNS infrastructure for 200+ domains.
- Building a new hardware architecture for a new version of our platform.
  - N+1 redundant MySQL cluster, F5 LTM Load Balancers, Mod\_Perl and Apache, and NetAPP Storage.

## Florida Department of Health

**Systems Administrator – March 2006 – June 2007** Full time Linux and VOIP consultant at agency responsible for technology procurement throughout the state.

- Designing and deploying medium scale Virtual IT help desk using Asterisk, with monitoring wallboard built with JQuery and Perl
- Building and maintaining state-wide, multi-agency, contact directory using Red Hat Directory Server, importing data from all of the different state agencies using custom Perl scripts.
- Building Linux based print servers using Samba, which integrated with Active Directory system.

## Additional Information

**Certifications** Red Hat Certified Engineer (RHCE) Cert #[110-015-385](#) – Red Hat Certified Instructor (RHCI) – Red Hat Certified Examiner (RHCX) – IBM Certified Linux Instructor.

**Languages** Perl – Python – TCL – Bash – English – Spanish.

**Presentations, Projects, and Community** Prepared and given numerous [presentations](#) at conferences and special interest groups.

Started and ran open source Linux distro rebuild project called [GoOSeLinux](#)

I am active in my local Linux users groups, [Atlanta Linux Enthusiasts](#) and [Classic Hackers UGA Linux Users Group](#).

I am the Author of/Contributor to these [open source projects](#).