

Adam Bolte

Systems administrator

✉ abolte@systemsaviour.com

🌐 systemsaviour.com

🔌 [boltronics](https://boltronics.com)

Docklands VIC 3008

Australia

As a GNU/Linux system/network administrator experienced with Salt Stack configuration management, Python, shell scripting and a number of AWS technologies, I love helping people solve infrastructure problems with code.

Primary Technical Skills

- Apache HTTP Server
- CI/CD implementation
- HAProxy
- AWS
- Docker
- Python
- Bash
- GNU/Linux
- Salt Stack / Salt Cloud

Professional Experience

System & Network Administration.....

SitePoint, Remote

WFH

Systems Administrator & Desktop Support Manager

Apr 2023-current

Major focus on cost-cutting activities, as well as reworking infrastructure to be easier for people to manage without much GNU/Linux experience.

- Developed Lambda@Edge functions to optimise SEO and reduce redirect counts; implemented global S3 replication for performance.
- Moved services behind Cloudflare. Wrote Cloudflare workers to maintain thousands of legacy redirects.
- Wrote a Moodle plugin for CMS integration (unused due to FE team pivot).

SitePoint, Location 2 & 3

Fitzroy, Cremorne

Systems Administrator & Desktop Support Manager

Oct 2018-Apr 2023

Built dev environments that more closely resembled important aspects of production. Transitioned network infrastructure during an office move.

- Built dev environments Salt, Vagrant, and later Docker; authored a Python-based config generator for docker-compose.
- Led infrastructure transitions during office relocation and staff restructuring, including provisioning of fibre Internet services.
- Managed IT asset tracking with GLPI (self-hosted internally).

SitePoint, Location 1

Collingwood

Systems Administrator & Desktop Support Manager

Mar 2010-Oct 2018

Using free software technologies such as Debian GNU/Linux, Salt, Buildbot, Python and Bash, I transitioned customer-facing services to AWS in such a way as to reduce costs and vendor lock-in. Additionally, I maintained all office network infrastructure and provided desktop support to the building.

- Migrated legacy physical servers to AWS EC2, complete with a staging environment, eliminating frequent outages and reducing costs.
- Replaced RightScale with Salt Stack for EC2 provisioning and config management, saving thousands annually.
- Managed office PBX (Asterisk), network services (Bind9, DHCP, Samba), and VPN access (OpenVPN initially, WireGuard later).

HCL Technologies, Threat Division

South Melbourne

Network Administrator

Mar 2008-Mar 2010

Generated custom ISO images to automatically execute anti-malware tools on infected hosts. Maintained local infrastructure.

- Deployed FreeRADIUS and OpenVPN for secure wireless and remote access.
- Created LiveCDs for malware scanning and PXE boot environments for client networks.
- Built imaging tools using fsarchiver and shell scripts as a Ghost alternative.

CA, Inc.

Network Engineer, Threat Division

South Melbourne

Sep 2007–Feb 2008

Assisted network service transition during an office move. Maintained local Threat infrastructure, including racks of servers, NAS boxes, development desktops and managing tape backups.

- Migrated infrastructure during office transition and outsourcing to HCL.
- Provided server maintenance and troubleshooting services to the various teams in the Threat division.

Tester

Mobilesoft

South Melbourne

Tester

Aug 2005–Aug 2007

Mobilesoft provided network devices and software to TabCorp. I was responsible for testing and troubleshooting releases (including finding ways to improve thoroughness and efficiency), and providing formal release documentation for the client.

- Automated testing and deployment for embedded Linux devices using VDE, RPM packaging, and QEMU.
- Maintained PHP/MySQL web systems; configured VPN and Samba-based authentication.

Platform maintainer contracting

Control Focus

Platform maintainer

2007

Small gaming machine business that ran OpenGL applications on embedded Linux systems.

- Custom Linux kernel to support spashutils, touchscreen driver support.
- Minimal R/O custom image that ran from CompactFlash cards, meeting gaming industry requirements.

Software Development

RMIT

Melbourne

Software Engineer, Chinese Medicine division

2004

Final year team project that provided the client a database-driven PHP website.

Vivid Communications

Melbourne

Web Programmer

2004

Small graphics design business that also provided website hosting and development for customers.

- PHP development
- Managed Apache httpd and qmail mail server.

Education / Qualifications

RMIT

Melbourne

Bachelor of Applied Science (Software Engineering)

2004

Transformations

Shepparton

Certificate IV in Assessment and Workplace Training

2004

Certifications

Linux Conference Australia

Canberra

Linux Professional Institute Level One Certified, System administration proficiency validation.

2005

Projects

ABS Backup System: Shell wrapper for rsync with interval-based backups.

github.com/sitepoint/abs

aws-mfa-env: MFA-based AWS credential exporter.

github.com/sitepoint/aws-mfa-env

Free Software Melbourne: Former President; hosted community events and website

Self-hosting: personal email, website and other services

Languages & Interests

Japanese (Self-study): Daily kanji and vocabulary practice using Anki

Interests: Exploring NixOS/Guix, repurposing legacy hardware