



Matt Clauson

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Skills

Systems Engineering & Architecture

Unix/Linux, Redhat, Debian, Ubuntu, SuSE, Solaris, Windows

Network Engineering and Architecture

Cisco, Juniper, Extreme Networks, F5, A10, Palo Alto Networks, TCP/IP, ATM, DOCSIS, MPLS

Programming/Scripting/Automation

Shell (multiple flavors), Perl, Python, C/C++, Ansible, Morpheus, Cloudforms/ManagelQ, Puppet, Chef

Interests

FCC Licensed Amateur Radio Operator (General Class)

I bring decades of experience as a multi-disciplinary systems and networks administrator, engineer, and architect; providing a highly developed and diverse skill set and a talent for acquiring and applying new skills to engineer and build durable platforms for both small and large environments.

Experience

Charter Communications (formerly Cablevision Systems Corporation, Bresnan Communications)

October 2005 - October 2025

Billings MT & Greenwood Village, CO

Operations Engineering, Architecture, and Management

Principal Engineer II April 2021 - October 2025

Principal Engineer I March 2017 - April 2021

Sr Manager December 2015 - March 2017

Manager October 2013 - December 2015

Lead Engineer September 2013 - October 2013

Sr Systems Engineer June 2011 - September 2012

Systems Engineer October 2005 - June 2011

- Provided operations engineering, architecture, and leadership in multiple challenging network and compute environments ranging from small cable headends with a small handful of servers to over 20 regional and national data centers, several thousand compute nodes, and over 200 petabytes of storage. Provided additional support to partner team environments of similar range in size and scope.
- Provided Tier 2, 3, and 4 support to front-line engineers network and service operation centers, as well as partner verticals. This included knowledge and troubleshooting of other teams environments including complex ethernet/IP networks, multiprotocol video, digital telephony, DOCSIS endpoint provisioning, OSS/BSS platforms, and Information Security incident response.
- “Green Field” and “Brown Field” engineering of infrastructure, application environments, and deployments for internal customers driving mission critical enterprise platforms including Spectrum Guide, Hybrid Fiber-Coax plant metrics and status, and Video-on-Demand customer analytics. Interfaced with third party vendors for successful application deployment.
- Provided operational partnership and guidance with Advanced Engineering group to design and architect the next generation of Application Platform Systems at Charter, based on decades of operational experience both inside and outside of Charter.
- Led multiple platform migrations over 20 years of service, including service provisioning and electronic messaging platforms affecting over 400,000 customer accounts, as well as DOCSIS service monitoring platforms monitoring over 500,000 DOCSIS CPE endpoints.
- Management of sustaining operations and engineering in legacy environments across two separate corporate acquisitions.

Experience (continued)

Independent Consultant

September 2004 - October 2005

Unix Systems Administrator - Yipes Enterprise Services

Denver, CO

Support of Network Management, Operational Support, and Back End systems for a leading provider of metropolitan Ethernet transport and IP services. This was the maintenance and upkeep of an environment that hadn't seen significant maintenance or uplift in quite some time, as the sole Unix engineer on staff (and a minimal staff, at that). Uptimes remained critical in this environment, which was a challenge with hardware nearing or past end-of-support dates.

Consultant - Teksystems

August 2005 - September 2005, June 2004 - August 2004, December 2003 - April 2004

Technical Support Engineer - Sun Microsystems

Broomfield, CO

Provided front-line technical support on most of the Sun Microsystems computing product lines to business customers, both extremely large and extremely small. Was selected for "internal-only" classes for support and maintenance of the "Midrange" Enterprise (later Sunfire Enterprise) server line, to allow for my utilization on specific support contracts requiring in-depth knowledge. Was a primary support resource for US Federal Government contracts requiring natural-born US citizens.

Consultant - Sirius Computer Solutions

September 2004 - October 2004

Systems Administrator - Nissan America

, Centennial CO

This was purely systems and network operations. I was brought in to support the internal portal transition from multiple disparate systems to a new and consolidated network and virtualization environment, supporting multiple internal-facing information systems at Nissan America. Rapid response and quick repair was a key requirement in this position, requiring a flexible admin with a broad base of experience.

Consultant - Peachtree Consulting

July 2002 - October 2003

Unix Systems Administrator - Cendant / trip.com

Centennial, CO

Brought in to manage and support datacenter consolidation. Cendant had recently purchased the operations of both [Trip.com](http://trip.com) and [CheapTickets.com](http://cheapTickets.com), and wished to consolidate the operations of both in a Cendant data center in the metropolitan Denver area. This involved the receipt of both new and cross-shipped hardware, rack installation, cabling, OS bootstrap, Application installation and testing, and basic network design and configuration.

Consultant - TekSystems

November 2001 - June 2002

Unix Systems Engineer - Space Imaging

Thornton, CO

Managed Unix platforms for final development and initial launch of Space Imaging's first direct-to-consumer e-commerce product. Blended environment of Linux and Sun Solaris systems in an environment with challenging security requirements.

Yipes Communications

October 1999 - November 2001

Founding Unix Systems Administrator

Denver, CO

Designed, built, and managed NMS, OSS, and BSS infrastructure for one of the first Metro Ethernet Providers in the US. Assisted with networking engineering and initial network implementations of multiple network rings in the greater Denver metropolitan area and Northern Colorado, as well as the San Francisco Bay Area, California. Provided knowledge and support of the legacy dialup and DSL ISP (Nanospace) which preceded the formation of Yipes.

Independent Consulting

Various Consulting Roles

Ongoing

Various

Through my years of contacts and experience, I have occasionally been asked to consult on various projects or provide technical knowledge and support in projects. Some of the projects I have been involved with are below, roughly described.

- Support and migration of a legacy mapping application from multiple environments, both private and public cloud, to a consolidated environment hosted on a private cloud environment.
- Turn-up of a regional Internet peering exchange in the United States
- Environment consulting and migration of the payment processing environment for a major national payments provider
- Remote hands technical support for a regional electronics retailer in their datacenter environment
- Network engineering and support for a small regional ISP in the United States
- Architecture and POC infrastructure engineering for a secure telephone network for journalists in less-than-friendly locations
- POC engineering work for an automated document malware analysis engine

Related Activities - Professional and Volunteer

Skytalks

July 2007 - Present (ongoing)

Las Vegas, NV

<https://skytalks.info>

Production Director July 2007 - December 2010

Executive Director - January 2011 - Present

Skytalks is an independent speaking track previously presented at DEF CON, and more recently at Security B-Sides Las Vegas, both world-renowned computer security and information underground conferences. Duties include management of Calls for Presentations (CFPs), production logistics (presentation equipment, seating, coordination with venue and conference management, after-hours receptions), staffing, and speaker wrangling.

Multiple Conferences - Volunteer

Ongoing

Security B-Sides Washington DC

Security B-Sides Delaware

Security B-Sides Denver

Shmoocon (Washington DC)

Sakuracon (Seattle WA)

I volunteer and participate at multiple information security and fandom events throughout the year – some nationally known, others only regionally. My knowledge and experience in many areas has become a key resources for operations at these events, including physical security and safety operations, systems and network management for event operations, vehicle and freight logistics, and radio and telecommunications operations and management.

Amateur Radio Emergency Service (ARES)

July 2007 - December 2015

Assistant Emergency Coordinator - Operations

Billings, MT (Yellowstone County)

The Amateur Radio Emergency Service is a volunteer group of Amateur Radio Operators making their skills and equipment available to the community not only in times of emergency, when communications are impaired, but in support of community events the year round, as part of regular exercise and training. Duties include coordination with local emergency service organizations, event organizers, news media as a de-facto Public Information Officer, and operational leadership in the field during exercises, events, and community support operations.