

ANTHONY BRUNELLO

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Principal CDN Architect and Engineer

Seasoned **Principal CDN Architect and Engineer** showcasing over 25 years of delivering high-quality solutions that optimize software development, system reliability, and operational processes at startups, global companies, and F500 clients. Adept at automating repetitive tasks and streamlining workflows, enabling teams to focus on innovation and product development. Passionate about leveraging my expertise to drive technical excellence and deliver impactful results. Committed to staying updated on industry trends to continuously deliver cutting-edge solutions.

Selected Highlights:

- Migrated the eCommerce platform to infrastructure as code managed cloud solution at Newell Brands.
- Spearheaded a Highly Available Mining Pool Platform using Infrastructure as Code methodology at ASICshack.
- Visionary founder of Adtaq Internet, LLC, revolutionized the hosting industry by devising robust BGP network architecture and Linux server configurations, catalyzing exponential growth to exceed \$500k in annual revenue.
- Pioneered Circumventures, LLC to serve F500 clientele, achieving an annual revenue surpassing \$1M.
- Engineered a bulk data processing solution for proxy and firewall log aggregation and analysis at AT&T Mobility.

Core Competencies

Strategic Planning | Team Management | Technical Leadership | Process Optimization | Agile Transformation | Cross-Functional Collaboration | Change Management | Security | Project Management | Stakeholder Engagement | Quality Assurance | Infrastructure as Code | Continuous Integration | Continuous Deployment | Orchestration | Automation | Cloud Services | Configuration Management | Monitoring and Logging | CI/CD Pipelines | Version Control | Scripting | Scalability | Performance Optimization | GitOps | Load Balancing | Incident Response

PROFESSIONAL EXPERIENCE

The Constant Company | Remote Senior DevOps Engineer

2023 – Present

Designed a Terraform module that improved the management of GitLab repository configurations.

- Centralized control over essential parameters, including merge request approvals, permissions for maintainers and developers, seamless JIRA integration, and protected branch settings.
- Strengthened security measures by fortifying critical repositories against unauthorized modifications and implementing a stringent code review and approval process for all alterations.
- Pioneered a configuration management strategy, mitigating discrepancies and errors from manual interventions.
- Boosted operational efficiency by orchestrating automation protocols that streamlined administrative functions, allowing teams to channel efforts into more strategic and innovative endeavors.
- Developed an automated solution aligned with industry-leading practices and compliance benchmarks, including a resilient and traceable development lifecycle.

Technologies & Tools: Terraform, GitLab, JIRA Integration, Configuration Management, Automation.

ASICshack, LLC | Remote DevOps Engineer - Cloudflare

2021 – 2022

Designed and launched an efficient Bitcoin mining pool for ASICshack, driving revenue growth & global accessibility.

- Architected high-performance platform, handling thousands of connections with <100ms latency.
- Implemented Anycast and BGP routing, optimizing network efficiency and reducing latency.
- Orchestrated seamless deployment on Vultr cloud using Terraform and Chef.
- Engineered a scalable solution, ensuring high availability and cost efficiency.
- Increased revenue by 3% through successful platform deployment and fee introduction.
- Enabled B2B market entry, facilitating trials for large mining farms and expanding reach.

Technology & Tools: Vultr, Anycast, BGP, Terraform, Chef, Cloudflare, Git

Newell Brands, Inc | Atlanta, GA Senior DevOps Engineer - Akamai, Cloudflare

2014 – 2021

Cloud Migration & DevOps Enhancement

Led cloud migration, transforming the on-premises platform to a dynamic AWS environment.

- Devised advanced AWS migration strategy, boosting scalability, agility, and cost-effectiveness.
- Designed Chef recipes, ensuring seamless migration with customizable attributes across diverse systems.
- Pioneered environment-agnostic attributes for Chef recipes, streamlining deployment across landscapes.
- Enabled agile development with Chef cookbooks for lesser-known software, accelerating provisioning.

- Achieved 10x cost reduction by transitioning from a costly co-located setup to an efficient AWS solution.

Technologies & Tools: AWS, EC2, RDS/Aurora, Route53, Terraform, Chef, Jenkins, Git, Logstash, Redis, Shell Scripting, Varnish, Bitbucket, PHP, AWS Networking Services (VPC, Security Groups, Network ACLs), IAM

Jenkins Pipeline Implementation

Spearheaded a transformative initiative to enhance deployment processes and security protocols by implementing robust Jenkins pipelines.

- Eliminated shared root credentials, ensuring compliance with the least privileged access policy to enhance security.
- Slashed the change failure rate by 33% through streamlined, automated deployment processes.
- Enabled swift, seamless rollbacks in the face of code defects, enhancing issue resolution speed.

Technology & Tools: Jenkins, ClickOps, Security Protocols, Pipeline Automation, Least Privileged Access, Rapid Rollback Mechanism, Agile

Infrastructure Automation and Configuration Management

Implemented a robust configuration management strategy utilizing Chef, leading to a substantial enhancement in the performance of a web application.

- Employed Terraform for infrastructure orchestration and automated Cloudflare caching to optimize static asset delivery.
- Reduced load time from 8 seconds to under 2 seconds, leading to a 75% improvement by integrating API calls for cache clearance into Jenkins to streamline deployment pipelines.
- Deployed configuration updates across 3 data centers in 3 regions within a span of 1 hour.
- Elevated application responsiveness and decreased user frustration, contributing to increased user engagement.

Technologies & Tools: Chef, Terraform, Akamai, Cloudflare, Jenkins, Apache

AT&T Services, Inc | Redmond, WA

2012 – 2014

Lead DevOps Engineer

Spearheaded the development and implementation of a high-availability load-balancing solution using HAProxy and DNS, orchestrated through the Chef configuration management framework.

- Enabled the achievement of active/active functionality for the AT&T flagship Apigee API platform across 5 datacenters in 3 global regions.
- Reduced operational expenses by deploying the HAProxy-based solution on existing cloud infrastructure, circumventing the need for expensive F5 Load Balancers that could have cost \$5,000 per month per location.
- Designed and implemented a robust Chef recipe for the API platform's OAuth component, showcasing expertise in software design and deployment strategies.
- Championed the adoption of DevOps best practices within the team, advocating for standardized and collaborative code development methodologies.
- Implemented stringent code coverage requirements as a quality gate for merging code into the main branch of Chef repositories, ensuring codebase scalability and maintainability over time.

Technologies & Tools: Chef, HAProxy, DNS, OAuth, DevOps practices, Sendmail, Shell scripting, Code coverage, Configuration-as-code, Cloud infrastructure, API platform

Microsoft Game Studios | Redmond, WA

2007 – 2010

Network Security Engineer III

Spearheaded the creation and implementation of a cutting-edge vulnerability scanning platform for Microsoft Game Studios' compliance arm.

- Developed Linux-based Nessus scanners to conduct comprehensive system audits, feeding results into a SQL Server and presenting them through a dynamic dashboard, providing insights into network security and exposing previously undetected vulnerabilities.
- Rectified multiple servers with outdated software, corrupted SCCM clients, and obsolete versions of IIS to improve audit compliance and avert potential security breaches.
- Designed and constructed robust VPN+Firewall+WAN Acceleration solutions to empower external game developers with secure access to Microsoft's internal resources.
- Leveraged proprietary automation techniques to configure Cisco PIX firewalls, seamlessly linking them to a central VPN concentrator within our data center.
- Delivered streamlined access to essential resources to entire development teams, enhancing security and operational efficiency.

Technology & Tools: Linux, Nessus Scanners, SQL Server, Automation, Dashboard Development, Network Security, Vulnerability Identification, SCCM Client Management, IIS, Cisco PIX Firewalls, VPN Configuration, WAN Acceleration, Datacenter Integration

ADDITIONAL EXPERIENCE

Co-Founder at Green Logistics, LLC: 2016 – 2019
Founder at Adtaq Internet, LLC: 2002 - 2013
Sr. Linux Operations Engineer at Shopzilla, Inc.: 2008 – 2009
Network Security Analyst at AT&T Mobility: 2005 – 2007
Operations Analyst at T-Mobile: 2002 – 2005
Network Operations Technician at VISA: 2001 – 2002
Integration Engineer at American Express Corporation: 2000 – 2001
IT Manager at Cachemedia, Inc.: 2000
Operations Analyst at CellularOne: 1997 – 2000

CERTIFICATIONS

Cisco Certified Network Associate (CCNA)
UNIX Administration Certification – University of Washington Seattle, WA

ADDITIONAL CREDENTIALS

Technical Skills: Cloudflare, Akamai, Fastly, Cloudfront, Terraform, Chef, Jenkins, NFS, Ubuntu, AWS, Git, Firewall, VPN, New Relic, Linux, Splunk, Arista, DNS, DHCP, Debian, JIRA, Bash, Perl

Interests: Vintage Automobiles, Vinyl Record Collecting and Listening, Espresso, Health and Exercise, Travel