**TIMOTHY HARRIS**

Systems Engineer | AI-Augmented Infrastructure Specialist | Security Operations Expert | 📍 Houston, TX | tph@securednetworks.us | [**LinkedIn**](http://www.linkedin.com/in/tminus36): http://www.linkedin.com/in/tminus36 | [**Github**](https://github.com/TMinus36): https://github.com/TMinus36

## **RESUME SUMMARY**

Systems Engineer with 10+ years enterprise infrastructure experience and 3+ years advanced SOC development. Recently completed CCNP-level training with expertise in containerized security orchestration, Infrastructure-as-Code, and AI-augmented operations. Designed and deployed production-scale monitoring systems processing 15K+ daily events using Docker, Ansible, and open-source SIEM technologies. Proven track record managing distributed systems, PCI compliance, and high-availability architectures.

## **CORE COMPETENCIES**

**Cloud & Containerization**: Docker, Docker Compose, Infrastructure-as-Code (Ansible), Virtualization (VMware vSphere)  
 **Security Operations**: SIEM (Splunk, Wazuh), IDS/IPS (Suricata), Network Analysis (Zeek), Incident Response, Security Automation, Identity Management, Vulnerability Assessment  
 **Network Infrastructure**: Cisco (CCNP-level), BGP, OSPF, VPN, Network Segmentation, Firewall Management, Load Balancing, TCP/IP  
 **Systems Engineering**: Linux (RHEL, CentOS, Arch), FreeBSD, Windows Server, High-Availability Design, Distributed Storage, Clustering, Active Directory  
 **Hardware & Infrastructure**: Server Architecture, Data Center Operations, Performance Engineering, Capacity Planning, Asset Management  
 **Technical Leadership**: Team Leadership, Mentoring, Knowledge Transfer, Process Improvement, Operational Excellence, Project Management  
 **Monitoring & Observability**: Prometheus, Grafana, ELK Stack, Performance Optimization, SRE Practices, SNMP, Nagios  
 **Development & Automation**: Python, Bash, PowerShell, CI/CD, Git, API Integration, Configuration Management  
 **Compliance & Risk Management**: PCI DSS, SOX, Financial Regulations, Data Protection, Audit Trail Management, Change Management

## **TECHNICAL PROJECTS & LABS**

**HSN: Harris Secured Networks - Production-Scale Home SOC | 2022 – Present**

* Architected containerized SOC processing 15K+ daily security events using Docker Compose orchestration with Wazuh SIEM, Suricata IDS, and Zeek network analysis
* Implemented Infrastructure-as-Code using Ansible playbooks managing 15+ service containers with automated TLS certificate rotation, DNS management, and backup strategies
* Developed Python-based alert correlation reducing false positives by 60% and integrated AI-powered analysis tools for automated threat hunting
* Designed network segmentation using FreeBSD jails and LXC containers with VLAN isolation, demonstrating enterprise-level security architecture
* Achieved 99.9% uptime with comprehensive monitoring stack (Prometheus/Grafana) and automated failover capabilities

**LetsDefend.io SOC Simulation & Training | May 2024 – August 2024**

* **Completed intensive hands-on SOC monitoring training, triaging 200+ simulated SIEM alerts weekly**
* **Executed detailed incident response protocols across 50+ attack scenarios, including containment, eradication, and recovery**
* **Authored comprehensive incident reports detailing attacker TTPs, reinforcing practical understanding of modern threat landscape**

**Bank Infrastructure Rebuild – TX Financial Institution | June 2018 – August 2018**

* **Executed complete infrastructure migration for multi-branch banking environment over four strategic weekend deployments**
* **Replaced 200+ legacy desktops, servers, and network printers with hardened, compliance-ready enterprise images using PXE automation**
* **Deployed Windows Server infrastructure with automated imaging and post-deployment validation ensuring zero business interruption**
* **Collaborated with Cisco and Dell/HP enterprise teams to maintain 100% uptime across all critical banking endpoints during migrations**

## **PROFESSIONAL EXPERIENCE**

**Independent Systems Consultant & Research | Self-Employed | Remote | 2013 – Present**

* Designed and implemented enterprise-grade security infrastructure for personal and consulting projects
* Maintained continuous technical development through advanced certifications and hands-on laboratory environments
* Developed expertise in emerging technologies including containerization, AI-augmented operations, and modern DevOps practices
* Completed comprehensive Cisco networking bootcamp (Spring 2013) advancing routing, switching, and network troubleshooting skills

**Hardware Infrastructure Specialist | TX Financial Institution | Texas | July 2018 – October 2018**

* Led complete infrastructure modernization for multi-branch banking environment during critical compliance upgrade
* Deployed 200+ enterprise workstations, servers, and network devices using automated PXE imaging and validation protocols
* Coordinated with vendor teams (Cisco, Dell, HP) ensuring zero-downtown migrations across four weekend deployment windows
* Maintained 100% regulatory compliance throughout infrastructure refresh affecting daily operations of 15+ branch locations

**DevOps & Systems Engineer | A-Team Systems | Remote | October 2017 – January 2018**

* Managed complex FreeBSD server environments for diverse client portfolio, maintaining 99.9% uptime across web (Apache, Nginx), database (MySQL), and application infrastructure
* Implemented DevOps automation and security automation using Ansible and custom scripting on FreeBSD platforms, enabling client infrastructure scaling from single-server deployments to fully redundant, high-availability platforms
* Deployed identity management solutions and access control systems ensuring secure authentication across multi-tenant FreeBSD client environments
* Provided 24x7 systems administration and proactive monitoring for mission-critical client systems, including incident response and performance optimization
* Designed and deployed comprehensive offsite backup and disaster recovery solutions ensuring business continuity and data protection compliance
* Administered and hardened open-source software stacks (FAMP, OpenLDAP) with emphasis on vulnerability management and automated security best practices on FreeBSD

**Transportation Operations Specialist | Various Logistics Companies | Multi-State | 2019 – 2025**

* Applied systems thinking and operational discipline to optimize complex logistics workflows across 48 states
* Managed critical infrastructure dependencies and real-time problem resolution under high-pressure conditions
* Demonstrated reliability and process adherence in mission-critical operations affecting supply chain continuity

**Network and Systems Engineer | SupraNet Communications | Madison, WI | Jul 2012 – Nov 2012**

* Reduced WAN circuit downtime by 20% through advanced diagnostic protocols and proactive vendor escalation management
* Managed enterprise Cisco infrastructure (15+ routers, 30+ switches, 10+ firewalls) with load balancing and high-availability clustering serving 200+ concurrent business users on primarily FreeBSD systems
* Implemented distributed storage solutions and PCI compliance protocols ensuring regulatory adherence for payment processing infrastructure
* Provided Tier 3 cross-platform support (FreeBSD, Linux, Windows) maintaining 99.5% customer satisfaction across 50+ client environments
* Led technology evaluation and procurement process, resulting in $50K+ annual cost savings through strategic vendor negotiations
* Developed standardized troubleshooting procedures reducing mean time to resolution by 35%

**Linux Systems Engineer | eBoundHost | Buffalo Grove, IL | Jun 2011 – Jul 2012**

* Orchestrated migration of 5,000+ customer instances during critical virtualization platform upgrade with <5 minutes downtime per instance using load-balanced clustering architecture
* Managed high-availability Plesk and cPanel clusters with distributed storage across 50+ FreeBSD and Linux servers ensuring 99.99% uptime SLA
* Implemented proactive monitoring and automated failover systems reducing unplanned outages by 40% across distributed hosting infrastructure
* Monitored and optimized server performance during large-scale data center consolidations affecting 10,000+ active hosting accounts
* Created comprehensive documentation and training materials improving team operational efficiency by 15%
* Designed and deployed distributed storage solutions ensuring data redundancy and disaster recovery capabilities

**Systems Backup and Recovery Specialist | Sungard Availability Services | Greater Chicago | Sep 2010 – Jun 2011**

* Deployed and managed Veritas NetBackup enterprise solutions ensuring data integrity for 100+ mission-critical client systems
* Provided Tier 2 technical escalation support across multi-platform environments (FreeBSD, Linux, Windows Server)
* Configured and deployed enterprise network equipment and server infrastructure for disaster recovery environments
* Maintained 99.8% backup success rate across diverse client infrastructure spanning financial, healthcare, and manufacturing sectors
* Developed backup optimization strategies reducing storage requirements by 25% while improving recovery time objectives

## **EDUCATION**

* Computer Science Coursework | Harper College | Palatine, IL | 2009 - 2010
* Computer Science Coursework | Waubonsee Community College | Sugar Grove, IL | 2007 - 2009

## **CERTIFICATIONS & TRAINING**

* CompTIA Security+ ([Valid until 02/27](https://www.credly.com/badges/bff2b26a-3e07-4605-b0d5-0cca22eb8be8/linked_in_profile))
* CompTIA Network+ ([Valid until 02/27](https://www.credly.com/badges/da299b13-61c1-4f41-abbc-f5e9aad95133/public_url))
* CCNP-Level Cisco Networking Bootcamp | Northstar-tek | April 2024 - July 2024
* CompTIA Network+ and Security+ Training | NetCom Learning | Remote, IL | February 2023 - May 2023
* Ethical Hacking (NDE, EHE) Training | Southern New Hampshire University | May 2022 - November 2022