




Adam McKee

Linux Engineer / Administrator, Coder,
Root Cause Analysis, Disaster Recovery

Aiming to optimize processes, increase security and reduce manual workloads by closely monitoring various metrics and automating everything.

adam@armware.net 

402.320.0370 

Bellevue, NE 

<https://armware.net>
<https://github.com/amckee> 
<https://linkedin.com/in/armckee> 

WORK EXPERIENCE

System Engineer & Admin, Infrastructure Management

2019 – 2023

Senior Linux Administration

Conseev Hosting

New York (Remote)

- Live migrated ~100 production, rack mount servers to newer data center affecting thousands of customers with minimal impact to internal operations
- Improved infrastructure insight metrics by 1600%, allowing the team to get ahead of larger problems which led to longer uptimes and fewer outages
- Improved SLA compliance by adjusting kernel parameters
- Modernized various hosting platforms across brands with latest OS options, increasing sales
- Administer 500+ bare metal servers running CentOS, AlmaLinux, Debian, Ubuntu
- Configure and administer systems monitoring services Zabbix and Nagios
- Configure and administer VyattaOS edge routers
- Configure and administer shared hosting servers and virtualization nodes
- Direct remote hands at data centers to replace/upgrade hardware
- Perform server monitoring through Zabbix and Nagios via Opsgenie
- Develop and deploy system configuration changes through Ansible
- Perform root cause analysis
- Configure server BIOS configuration changes through IPMI
- Develop updated OS templates for virtualized servers
- Handle escalations from team members and phone agents

Security Analysis

- Discovered method for gaining root access on internal jump box
- Discovered internal systems publicly available
- Discovered dozens of maliciously installed crypto miners
- Discovered countless accounts compromised and used for spamming
- Continual development of firewall rule changes

Scripting

- Develop shells scripts using bash, sed, awk, grep and other unix command line tools

SKILLS & COMPETENCIES

Core Linux

- LAMP
- Networking
- Root cause analysis
- Performance analysis
- RHEL / CentOS / Alma
- Debian / Arch

Automation

- Ansible
- Jenkins
- Bash
- Python
- Perl

Observability

- Zabbix
- Nagios
- Opsgenie
- Grafana
- Prometheus
- Collectd

Virtualization

- OpenVZ
- libvirt
- Docker
- OpenStack

Coordination

- JIRA
- Confluence
- Wiki
- Git & Github
- Bugzilla
- Slack
- Discord
- Teams

- Develop routine server self-maintenance in bash, deployed through Ansible
- Develop shell scripts used to monitor production and internal servers
- Develop shell scripts to monitor multitude of RAID configurations
- Develop new metrics for Zabbix and Nagios

L2 Systems Monitoring, Sr. Linux Administrator

Endurance International

2017 - 2019

Austin, TX

Senior Linux Administration

- Administer, patch, maintain and troubleshoot issues on 10,000+ bare metal and virtualized servers running mostly CentOS
- Configure and administer shared hosting servers and virtualization nodes
- Live migrate ~6,000 rack mounted production servers
- Configure and administer systems monitoring services Zabbix
- Develop improvements to system configurations
- Maintain 99% uptime SLA
- Direct remote hands at data centers to replace/upgrade hardware
- Handle escalations from L1 system monitors, system administrators and managers
- Perform root cause analysis
- Perform server monitoring through Zabbix
- Track and resolve common and trending issues

Security Analysis

- Discovered dozens of maliciously installed crypto miners
- Develop methods of automatic detection and resolution of malicious account access and activity
- Discovered countless accounts compromised and used for spamming
- Discovered cross user file access through use of symlinks
- Discovered root compromised servers
- Develop edge router blocks to reduce DDoS impacts

Scripting

- Develop shells scripts using bash, sed, awk, grep and other unix command line tools
- Develop shell scripts used to monitor production and internal servers
- Develop improvements to shell scripts for monitoring multiple RAID configurations
- Develop new methods of obtaining metrics for Zabbix

ITCS/EUS Technician

Endurance International

2015 - 2017

Austin, TX

Senior Linux Administration

- Developed and managed PXE boot Linux image for thousands of thin client desktop workstations between two offices

- Developed the first Linux installation image for laptops, shrinking install time to around 3 minutes and integrating logins via Active Directory
- OS installations, security checks and hardware replacements as needed
- Internal network diagnostics and upgrades, backup planning and disaster recovery
- Find and implement new solutions and technologies, document everything along the way, and worked on-call

IT End User Support

- Troubleshoot all issues on Linux, MacOS and Windows environments
- Performed late night server upgrades and server maintenance
- Managed live streaming setup for town hall events for remote employees

L1 Systems Monitoring, Sr. Linux Administration

Endurance International

2015 - 2017

Austin, TX

Senior Linux Administration

- Administer 10,000+ bare metal servers running CentOS
- Configure and administer shared hosting servers and virtualization nodes
- Perform server monitoring and troubleshooting using Zabbix
- Direct remote hands at data centers to replace/upgrade hardware
- Perform root cause analysis
- Perform disaster recovery
- Administer InnoDB failures, performing data restoration as required
- Perform server-level DDoS or brute force attack mitigation
- Perform post-disaster investigations
- Handle escalations from team members and team managers

Develop Command Center Dept

- Oversees all major enterprise outages, externally and internally across all data centers, phone systems, production servers and numerous offices
- Develop system of maintenance for point of contacts for specific issues
- Manage cross-department coordination while resolving the issue
- Manage public facing outage updates
- Generate detailed documentation for each crisis
- Issue post-incident review looking permanent solutions where applicable to prevent repeat outages

Security Analysis

- Discovered dozens of maliciously installed crypto miners
- Discovered hundreds of email accounts compromised and used for spamming
- Discovered cross user file access through use of symlinks
- Discovered root compromised servers
- Develop edge router blocks to reduce DDoS impacts

Scripting

- Develop shells scripts using bash, sed, awk, grep and other unix command line tools

Linux System Administrator

2013 – 2015

Linux Administration

Hostgator.com (Endurance International)

Austin, TX

- Resolve customer support requests from the main support ticket queue
- Handle account backups and restorations
- Manage dedicated server recovery
- Handle escalations involving core Linux, Apache, MySQL, email, and DNS configurations issues

Technician

2010 – 2011

Castillo & Associates

Austin, TX

- Stage and deploy updated OS image onto new workstations
- Ensure data transfer from old workstations
- Ensure network mounts where applicable
- Ensure account logins remained functional
- Ensure external hardware remains functional, installing drivers and configuring software as needed
- Perform complete data wipe of old systems

Software Developer

2005 - 2009

Software Development

Schrock Innovations

Omaha, NE

- Develop flagship product in C#.NET to deployment
- Document support issues for front line and handle escalations
- Develop C#.NET software to manage custom printing solutions, sorting by SmartMailer provided order
- Maintain good standings with existing clients as well as establish solid new client relationships
- Develop client-server desktop applications in C# / VB.NET with MySQL backend

Web Development

- Building and updating over 75 front facing websites associated with local businesses using LAMP, PHP and Ruby on Rails
- Design, develop and implement total business management solutions in CakePHP and Ruby on Rails

Repair Technician

- Provide direction, decision making and support to team