

Matthew Lindsey

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SKILLS

Operating Systems: Linux, Windows and FreeBSD, experience with Cisco IOS.

Scripting Languages: Bash, Python, Powershell.

Configuration Management: Deployed and maintained ansible environments.

Software/Applications: Docker containers, nginx, apache, mysql/mariadb, postgresql, zabbix, netbox, grafana, NFS/SMB shares, influxdb, VPN server, gitlab, haproxy, UEB backup.

Network: Experience with networking fundamentals including DNS, DHCP, VLANs, routing protocols.

Other: Ability to troubleshoot and problem solve, clear and concise documentation.

WORK EXPERIENCE

Cold Spring Harbor Laboratory, Cold Spring Harbor, NY

Linux Systems Engineer II, March 2019 – Present

- Deploy, configure and maintain virtual and physical CentOS, Rocky, RedHat 7, 8 and 9 servers across two physical data centers and a cloud site.
- Automated server configuration and management with ansible playbooks/roles – including SSH, network, firewall and security configuration, joining to Active Directory, monitoring agent installation, Apache/nginx and other common application installations and configurations.
- Scheduled and automated monthly patching using ansible and rundeck along with matching infrastructure to fetch packages from local RPM repository mirror and Red Hat Satellite.
- Replaced aging infrastructure including deploying new DNS name servers, HA proxy load balancers, Zabbix monitoring and alerting, Grafana for visualization, clustered database servers, application servers, containerized applications with docker, internal documentation system using wikis, infrastructure management database using netbox.
- Oversaw and performed migration from CentOS to Rocky and from Rocky to Red Hat based on changing business needs and vendor support.
- Deployed external monitoring solution for disaster scenarios.
- Setup and administer HPC cluster and parallel file system, including deploying new generation of HPC cluster and new GPFS storage cluster along with data migration.
- Automated repetitive tasks and data parsing using bash/python scripting, such as automated central SSL certificate renewal using certbot and deployment to required servers.
- Troubleshoot issues related to IT operations including server, application, network problems.
- Work with vendors to quote and purchase new systems as well as opened support tickets when necessary to resolve incidents.

Wheelhouse IT, Wantagh, NY

IT Technician, 2018 - 2019

- Configured firewalls, routers, switches, APs, servers and workstations for specific client needs including customization, data migration and program installations.
- Reduced new computer configuration time by setting up and maintaining a WDS server for windows image deployment with custom images.

- Wrote Powershell scripts to automate repetitive tasks such as installing printer drivers, gathering system information for migrations, and setting up client specific configurations.
- Introduced and configured USMT (Microsoft's User State Migration Tool) to provide more automation and consistency during user migration to preserve data and application settings.
- Integral to re-onboarding projects to gather information and pictures for clients who lacked documentation of their network infrastructure, servers, applications and documented findings on internal KB (knowledge base) including network diagrams, pictures and notes.
- Troubleshoot tickets that required an onsite presence including network connectivity issues such as DHCP and DNS configuration.
- Remotely assisted users to resolve tickets involving Active Directory user management, service interruptions, application installations/upgrades/error fixing, driver installations, etc. using Connectwise Automate.
- Scheduled and traveled by car or train to sites as required, including multiple sites per day.

Inmotion Hosting, Denver, CO

IT Technical Support Tier I, 2017 – 2018

- Communicated with clients via phone, chat and tickets to solve issues with their websites, email and FTP accounts.
- Used SSH access to diagnose and troubleshoot customer problems by checking various server and application logs.
- Maintained all quality and performance metrics.

United States Patent and Trademark Office, Alexandria, VA

Patent Examiner: Networking, Information Security and Cryptography, 2007 – 2016

- Examined applications on merits, researched prior art to determine novelty of application, communicated findings to clients in formal reports using relevant evidence.
- Networking patent applications included client/server and peer to peer architectures, remote data accessing, network configuration, management and monitoring, network access regulating, resource allocation, session/connection establishing, data streaming, data transfer regulating, congestion avoidance, QoS, load balancing, VLANs, data routing, distributing routing data updates, and interconnecting networks.
- Information security patent applications included policy management, authentication, authorization, credential management with tokens, tickets and certificates, stateful firewalls, packet filtering, packet inspection, security protocols, VPNs, network scanning including attack prevention, intrusion detection, virus detection, vulnerability assessment, and prevention of unauthorized use of data.
- Cryptography patent applications included communication using cryptography at specific protocol layers, central trusted authority providing authentication, generating/issuing/revoking certificates, hierarchical certificates, token based authentication, mutual authentication, key exchange, asymmetric/symmetric cryptography, digital signatures, message digests, block/data stream encryption, and user identification by cryptography including biometrics.

EDUCATION

BS Computer Engineering, University of Virginia, 2007

Thesis: Temperature Aware Circuits