

Michael Loerop

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PROFESSIONAL SUMMARY

Security-certified IT professional with 7+ years administering Windows Server environments, including IIS hosting for 600+ production websites, Hyper-V virtualization, Active Directory, and endpoint protection. Automates administration with PowerShell and Python, eliminating 2+ weeks of manual work per year. CySA+, Security+, and Network+ certified with a home virtualization lab (Proxmox, Docker, Ubuntu).

SKILLS & TOOLS

Systems & Virtualization: Windows Server, IIS, Hyper-V, Remote Desktop Services, Proxmox VE, Docker, Ubuntu Linux, thin client deployment

Administration: Active Directory (user provisioning, group management, access control), Symantec Endpoint Protection, OS hardening & secure baselines, SSL/TLS certificate lifecycle (WinAcme, Certify The Web), Sitecore CMS, SQL

Automation & Scripting: PowerShell, Python, JavaScript

Security & Monitoring: Mimecast email security, sandbox malware analysis, VirusTotal analysis, SIEM (Splunk, home lab), OpenSSH log analysis

PROFESSIONAL EXPERIENCE

Web Developer & Publisher | Abbey Carpet Co., Inc.

June 2022 – Present

- **IIS Administration:** Administer IIS hosting environment supporting 600+ production websites; maintain uptime, stability, and deployment integrity as primary escalation point for complex issues.
- **Certificate Management:** Singlehandedly manage SSL/TLS certificate lifecycle across the entire 600+ site environment using WinAcme and Certify The Web, ensuring uninterrupted encrypted communication.
- **Deployment & Databases:** Standardized deployment processes with a custom framework, cutting development time by 30%; maintain SQL databases and analytics integrations for new store rollouts.
- **Application Security:** Conduct input validation and injection testing on production web applications to mitigate XSS and SQL injection risks.
- **Training & Mentorship:** Trained 4 web publishers and 1 help desk employee on tools, systems, and workflows.

IT Help Desk (Tier I/II) & Web Publisher | Abbey Carpet Co., Inc.

June 2018 – June 2022

- **Infrastructure Deployment:** Assisted deployment of a new Windows file server, IIS web server, Remote Desktop Services, and Hyper-V virtualization environment supporting company-wide operations.
- **OS Hardening & Imaging:** Designed a secure baseline configuration for new thin clients and singlehandedly executed a phased deployment across two locations; authored setup guidelines used by the team.
- **Active Directory:** Supported user provisioning, group management, and access control across three company sites as part of a two-person IT team.
- **Endpoint Management:** Deployed and maintained Symantec Endpoint Protection across enterprise endpoints; contained potential infections and supported remediation.
- **PowerShell & Python Automation:** Developed PowerShell scripts for IIS server migrations and analysis of a recurring 28k+ file dataset (saving 2+ weeks/yr); built Python automation for legacy system updates (30+ min/week).
- **Email Security:** Analyzed email threats in Mimecast, identifying phishing and malicious payloads; evaluated suspicious files in isolated sandbox environments before user release.
- **End-User Support:** Provided Tier I/II support across three sites: desktops, printers (inkjet, laser, plotter), and end-user systems.

PROJECTS (HOME LAB)

- **Virtualization Lab:** Run a Proxmox VE environment hosting multiple virtual machines and self-hosted services including NextCloud.
- **Self-Hosted NAS:** Built and deployed a fault-tolerant NAS using Ubuntu Linux, Docker, and Immich.
- **SIEM & Log Analysis:** Deploying Splunk with Windows and Kali Linux hosts for log ingestion and detection building; analyzed OpenSSH logs to identify brute-force attacks.

CERTIFICATIONS

CompTIA: CySA+, Security+, Network+, A+

Microsoft: Azure Fundamentals (AZ-900), 365 Fundamentals (MS-900)

EDUCATION

BS in Business Management Information Systems — Liberty University | Specializations: Web Development, Application Development