

BERKAY YETGIN

System Specialist | Microsoft & Linux Infrastructure | Automation

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SUMMARY

System Specialist proficient in System Engineering and DevOps practices, managing production-grade virtualization and container infrastructures (Proxmox, Docker). Approaching operational workflows with an engineering mindset, I have delivered infrastructure modernization through PowerShell automation and critical Group Policy optimizations. Passionate about solving complex problems via CI/CD pipelines, with a strong focus on transitioning into System Administrator / DevOps Engineer roles.

TECHNICAL SKILLS

Systems & Infrastructure

Windows Server, Active Directory, Entra ID, SCCM, PowerShell, Group Policy, ManageEngine ServiceDesk Plus, Xurrent ITSM, Exchange Online, Office 365

Cloud, DevOps & Virtualization

AWS (EC2, S3), Jenkins, CI/CD Pipelines, Kubernetes Concepts, Proxmox VE, Docker, Docker Compose, LXC, GitHub Actions

Networking & Security

FortiGate, Cisco Switches, Cloudflare Tunnel, VPN, VLAN, Firewall Configuration, Zero Trust Architecture

WORK EXPERIENCE

IT Specialist

TÜPRAŞ | November 2023 - Present

- Engineered WMI-based PowerShell automation scripts to mass-deploy critical BIOS security configurations (Secure Boot) via ManageEngine, enforcing enterprise compliance
- Optimized application packaging workflows by reverse-engineering registry keys to develop silent install/uninstall scripts for the self-service portal
- Performed Root Cause Analysis (RCA) on complex Group Policy failures, identifying architectural logic errors and implementing permanent fixes to enhance infrastructure stability
- Managed Active Directory and Entra ID operations: user lifecycle, security groups, and MFA configuration
- Delivered comprehensive technical support to 3000+ users via ITSM tools, maintaining high SLA standards

IT Specialist

STT TÜRK GAZBETON | December 2022 - November 2023

- Provided comprehensive L1-L2 technical support: hardware/software troubleshooting, user account management, and daily IT operations
- Administered Windows Server infrastructure: Active Directory user/group management, Group Policy configuration
- Managed network security and infrastructure: FortiGate firewall configuration, Cisco switch management, VLAN segmentation
- Maintained virtualization platforms: VM provisioning, configuration, and resource optimization on VMware vSphere and Hyper-V
- Implemented regular backup strategies for critical systems and conducted disaster recovery testing

Technical Support Representative

AssisTT | October 2015 - November 2016

- Provided ISP network troubleshooting for residential and business customers
- Delivered technical support for connectivity and service quality issues

PROJECTS

Proxmox Homelab Automation

Technologies: Proxmox VE, LXC, Docker, Bash Scripting, GitHub Actions, Prometheus, Grafana, Cloudflare Zero Trust

- **Declarative Infrastructure (IaC):** Engineered a Bash-based idempotent automation suite managing the entire server fleet as a "Single Source of Truth" via `stacks.yaml`
- **Zero Trust Architecture:** Designed a secure, closed-port access model utilizing identity-aware Cloudflare Tunnels and "Defense in Depth" principles to replace traditional port forwarding
- **Secure Virtualization:** Implemented hardware-isolated NVIDIA GPU passthrough and nested Docker optimization within Unprivileged LXC containers using `cgroup v2` rules
- **Continuous Delivery & Observability:** Automated CI/CD image pipelines via GitHub Actions, AES-256-CBC GitOps secrets management, and Full-Stack telemetry with Prometheus, Loki, and Grafana
- **Business Continuity (DR):** Multi-layered disaster recovery strategy adhering to the 3-2-1 rule, featuring local ZFS snapshots and encrypted, deduplicated cloud synchronization via Google Drive
- GitHub: github.com/Yakrel/proxmox-homelab-automation

AWS Cloud Infrastructure & CI/CD Implementation

Technologies: AWS (EC2, S3), Jenkins, GitHub Webhooks, Linux Administration, Bash Scripting

- **AWS Infrastructure Provisioning:** Deployed and managed EC2 instances for production-like workloads, configuring Security Groups (firewalls) to secure SSH and web traffic
- **CI/CD Pipeline Automation:** Designed a Jenkins-based CI/CD pipeline integrated with GitHub Webhooks to trigger automated builds and deployments immediately upon code push
- **Cloud Storage Solutions:** Utilized Amazon S3 for scalable object storage and configured Static Website Hosting for high-availability frontend content delivery
- **Architectural Decision (Kubernetes vs Docker):** Analyzed Kubernetes architecture (Pods, Nodes, Services) and opted for Docker Compose after performing a resource efficiency (overhead) and operational complexity analysis for a single-node environment

Wabbajack Library Cleaner

Technologies: Rust, File System Automation, Windows & Linux

- **Intelligent Parsing:** Developed a native desktop utility for Windows and Linux that parses `.wabbajack` modlist files (JSON/ZIP) to map dependencies and detect orphaned mod files
- **System Safety:** Implemented robust file-locking mechanisms and heuristic size analysis to ensure data integrity during file operations
- **Community Impact:** Actively used by the modding community (100+ downloads) to solve real-world storage optimization problems
- Website: cleaner.byetgin.com | GitHub: github.com/Yakrel/wabbajack-library-cleaner

Wabbajack Library Cleaner - Project Website

Technologies: Astro (SSG), Tailwind CSS v4, TypeScript, GitHub Actions

- **Development:** Built the official product website using Astro (SSG) and Tailwind CSS v4 for maximum performance and SEO.
- **High-Performance Architecture:** Engineered a 99+ Lighthouse score documentation site using Astro's static site generation and Zero-JS approach
- **Modern UI/UX:** Designed a responsive, dark-themed interface using Tailwind CSS v4, focusing on product storytelling and user guidance
- **Documentation & Support:** Developed a structured layout to explain complex technical features (Smart Detection, Orphan Cleanup) through intuitive visual cards
- Source: github.com/Yakrel/wabbajack-library-cleaner-site

Repackarr

Technologies: SvelteKit 5, TypeScript, SQLite, Drizzle ORM, Docker, Node.js

- **Full-Stack Development:** Built a self-hosted web application for automated game repack management, integrating qBittorrent, Prowlarr, and IGDB APIs
- **Smart Parsing:** Developed a version detection engine capable of extracting version strings from torrent titles and tracker pages across major repackers (FitGirl, DODI, ElAmigos)
- **Automation:** Implemented scheduled update scanning, real-time progress tracking (SSE), and one-click magnet dispatch to qBittorrent
- GitHub: github.com/Yakrel/repackarr

EDUCATION

Bachelor's Degree - Management Information Systems

Anadolu University | 2025 - Present

Associate Degree - Electronics Technology

Kırıkkale University | 2011 - 2014

CERTIFICATES

- Microsoft Applied Skills - Administer Active Directory Domain Services (Microsoft, 2025)
- FortiAnalyzer - Log Analysis and Management (TÜPRAŞ Academy, 2025)
- MS 20761 Querying Data with Transact-SQL (Bilge Adam Teknoloji, 2025)
- CCNA Training (CLIGURU, 2023)
- ITIL 4 Foundation (bir618 - Participation, 2024)

LANGUAGES

- Turkish (Native)
- English (Professional Working Proficiency)