

Robert Melcher

System Administrator

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ABOUT ME

System Administrator and former Cybersecurity Engineer with expertise in **Linux, networking, and security**. I specialize in **server management, virtualization, and infrastructure automation**.

I also **write a technical blog** about my **work-related projects and HomeLab experiments**, focusing on practical IT solutions and automation.

WORK EXPERIENCE

FORVIA 2022 – Present

HPC SYSTEM ADMINISTRATOR

- **Maintained Windows and Linux servers** ensuring system stability and performance
- Integrated **Active Directory** and **SALT minions** on Linux servers
- Managed **virtual servers (ManageIQ)** and **network infrastructure (VitalQIP)**
- Installed and configured **PBS (Portable Batch System)** on **HPC server** for job scheduling and resource allocation
- **Led HPC Cluster Deployment:** Coordinated **cross-team efforts** (Network, Security, DC Ops) for **VLAN tagging** and **firewall rule implementation**
- **End-to-End Infrastructure Setup:** Configured **Dell servers via iDRAC**, deploying a **6-node cluster** (Head Node, FEM, Compute Nodes)
- **Authentication & Storage Integration:** Implemented **Winbind and Samba** for **Active Directory integration** and **SMB/NFS file sharing**

DOLPHOST 2022 – 2024

FOUNDER

- **Developed secure WordPress websites** with emphasis on **security best practices**
- Provided **maintenance and sales of VPS and web hosting services**
- Managed **domain registrations and transfers**
- Implemented and configured **hosting management solutions (WHMCS, cPanel)**

ATOS IT SOLUTIONS 2020 – 2022

CYBER SECURITY ENGINEER

- Conducted **risk and vulnerability assessments** using **NESSUS**, providing **detailed reports to senior management**
- Implemented **firewall rules** on **next-generation firewalls (Cisco, Fortinet, Palo Alto, Juniper)**
- Configured and managed **proxy rules** on **McAfee and SQUID** systems
- **Monitored data access** and regulated file use using **CyberArk (PAM)**
- **Migrated and created policy rules** for Windows 10 end users using **Forescout**

NETEX ROMANIA 2018 – 2020

SYSTEM ADMINISTRATOR

- Managed **backup processes** using **BAREOS**, ensuring **data integrity and redundancy**

- Performed **patching and troubleshooting** on NetexOS (Debian-based) with **Puppet automation**
- Installed **XEN hypervisors** and integrated **Docker** for development teams
- **Migrated Puppet** from bare metal infrastructure to **Kubernetes (K8s) cluster**
- Managed **VOIP system** based on **Asterisk** and **Cisco phones**
- Configured **StrongSwan** for **IPsec site-to-site VPN** connections
- **Maintained server room infrastructure**: installed **rack-mounted servers**, managed **network cabling**, and handled **hardware maintenance**

EDUCATION

CISCO CERTIFIED NETWORK ASSOCIATE (CCNA- #NJXWKRF7D1EQ7C0) 2019 – 2020

- Prepared through a **7-month vocational training program** covering 4 comprehensive modules
- Gained **extensive practical experience** with **physical Cisco equipment** and **GNS3** virtual environments

WEST UNIVERSITY OF TIMISOARA 2016 – 2018

COMPUTER SCIENCE

West University of Timișoara – Faculty of Mathematics and Informatics Computer Science (unfinished Bachelor's degree)

- Relevant coursework: • Networking (towards CCNA certification) • Linux administration • Virtualization & Containerization (Docker, Kubernetes)

SKILLS

SYSTEMS

- Linux Administration
- Windows Server
- Virtualization (Proxmox, Docker)

SECURITY & AUTOMATION

- Security Assessment
- Backup Solutions

NETWORKING

- CISCO Configuration
- Firewall Management
- VPN Implementation

PROJECTS

HOMELAB

- **Built and maintained** custom lab on **Dell PowerEdge R720** hardware
- Managed **Proxmox virtualization** environment running **Linux and Windows VMs**
- Implemented **Network Security** using **VLANs, WAF, and pFsense firewall**
- Deployed **Docker environments** orchestrated with **Portainer**
- **Implemented K8s Cluster with Rancher** and transitioned to **GitOps using FluxCD**
- **Hybrid Cloud Monitoring**: Managed an **Oracle Cloud (Ampere)** instance running **Grafana & Prometheus** to monitor HomeLab metrics via **Tailscale and Cloudflare Tunnels**
- **Actively developing** a K8s infrastructure repository to automate cluster management: github.com/meroxdotdev/infrastructure 