Robert Melcher

System Administrator

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ABOUT ME

System Administrator and former Cybersecurity Engineer with expertise in Linux-based technologies, networking, and security. I specialize in server management, virtualization solutions, and network implementation with a focus on maintaining secure and efficient IT infrastructures.

WORK EXPERIENCE

2022 - Present

FORVIA | HPC SYSTEM ADMINISTRATOR

- Maintained Windows and Linux servers ensuring system stability and performance
- Integrated **ActiveDirectory** and **SALT** minions on Linux servers
- Managed virtual servers with **ManageIQ** and network infrastructure with **VitalQIP**
- Installed and configured **PBS** (Portable Batch System) on HPC server for effective job scheduling and resource allocation

2022 - 2024

DOLPHOST | 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**)

2020 - 2022

ATOS IT SOLUTIONS | 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**
- Migrated and created policy rules for Windows 10 end users using **Forescout**

2018 - 2020

NETEX ROMANIA | 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 team
- Migrated Puppet from bare metal infrastructure to **Kubernetes** (K8s) cluster
- Managed **VOIP** system based on **Asterisk** and **CISCO** phones
- Configured networks for routers using **StrongSwan** for IPsec site-to-site connections
- Maintained **server room** infrastructure: installed rack-mounted **servers**, managed **network cabling**, replaced **UPS** batteries, and performed hardware maintenance.

EDUCATION

2016 - 2018 **COMPUTER SCIENCE | WEST UNIVERSITY OF TIMISOARA**

Relevant Coursework
Specialized training in networking (leading to **CCNA** certification), **Linux** system administration, **virtualization** technologies, containerization (**Docker**, **Kubernetes**).

2019 - 2020 **CISCO CERTIFIED NETWORK ASSOCIATE (CCNA- #NJXWKRFD7D1EQ7C0)**

Prepared through a 7-month vocational training program covering 4 comprehensive modules, with extensive practical experience in both physical CISCO equipment and virtual network environments (GNS3) before certification.

PROJECTS

HOMELAB

- Built and maintained Dell PowerEdge R720 server
- Proxmox virtualization running **Linux** and **Windows** VMs
- Network security with VLANs, WAF, and pFsense firewall
- Deployed Docker environments managed with Portainer
- Implemented K3S Cluster with Rancher

WEB

- merox.dev/websites/

SKILLS

SYSTEMS

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

SECURITY & AUTOMATION

- Security Assessment
- Backup Solutions

NETWORKING

- CISCO Configuration
- Firewall Management
- VPN Implementation