

ROBERT MELCHER

System Administrator

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📍 Giroc, TM

SUMMARY

I am Robert Melcher, a system administrator and former cybersecurity engineer with a strong passion for IT. My daily goal is to continuously improve and expand my expertise. I specialize in Linux-based technologies, networking, and security.

www.merox.dev - IT Documentation & Blog
hosted on GitHub Pages (CI + Cloudflare)

EXPERIENCE

System Administrator

Netex Romania S.R.L.

📅 04/2018 - 06/2020 📍 Timisoara, TM

Netex Romania is a multinational company with headquarter in Timisoara, they provision of Customer Relations services in Europe.

- Managed backup processes using BAREOS, overseeing file system, storage, and digital asset upgrades while ensuring data integrity and redundancy.
- Provided comprehensive training to internal and off-site users to optimize systems maintenance and resolve recurring issues
- Performed patching and troubleshooting on NetexOS, a Debian-based system developed by our IT team, with automation facilitated through Puppet.
- Patching and troubleshooting on Netex servers (based on Debian or CentOS)
- Mounted and configured servers (HP and Dell) and switches (CISCO) within the datacenter.
- Installed XEN hypervisors and integrated Docker for the development team.
- Maintained and migrated Puppet from bare metal infrastructure to a Kubernetes (K8s) cluster.
- Managed VOIP system based on Asterisk and CISCO phones
- Network configurations on CISCO switches
- Configured networks for routers based on Linux servers using StrongSwan for IPsec site-to-site connections.
- Developed a Python script to reboot CISCO phones via Telnet.
- Created a Bash script to send email notifications two weeks before the Certificate Authority (CA) of an IPsec tunnel expires.

Cyber Security Engineer

Atos It Solutions

📅 07/2020 - 03/2022 📍 Timisoara, TM

Atos is the global leader in secure and decarbonized digital with a range of market-leading digital solutions along with consultancy services, digital security and decarbonization offerings; an end-to-end partnership approach.

- Conducted risk and vulnerability assessments using Nessus, providing detailed reports and actionable recommendations to senior management.
- Advised on security system improvements and procedures, including migrating and creating policy rules for Windows 10 end users as part of a 3-month project using Forescout.
- Implemented firewall rules on next-generation firewalls, including CISCO, Fortinet, Palo Alto, and Juniper.
- Configured and managed proxy rules on McAfee and SQUID systems.
- Troubleshot firewall and proxy rules, ensuring proper functionality and performing periodic rule cleanups.
- Monitored data access and regulated file use to safeguard sensitive information using CyberArk.

SKILLS

Penetration testing

Patching

Firewalls

Troubleshooting

Networking

Linux

Virtualization

Docker

Hosting

STRENGTHS



Neat & Tidy

When I configure systems, come up with solutions, or do any work, I try to be as neat and tidy as possible. By doing so I ensure that others will be able to work on the system in the future.



Quick but Precise

Always trying my best to finish the work as soon as possible and get everyone back to work.



Communicative

Not too quick to draw any conclusions. I take my time and try to pinpoint the problem with the right questions.

PASSIONS



Blogging, Travel, Photography

LANGUAGES

English

Proficient



EXPERIENCE

System Administrator

Forvia

 03/2022 - Present  Giarmata, TM

FORVIA provides solutions for a safe, sustainable, advanced and customized mobility. Composed of 6 business groups with 24 product lines, FORVIA comprises the complementary technology and industrial strengths of Faurecia and HELLA.

- Maintenance for Windows and Linux servers
- Integrate ActiveDirectory and SALT minions on linux servers
- Virtual servers management with ManagelQ
- Network management with VitalQIP
- Patching Windows servers with Control-M
- Installed and configured PBS (Portable Batch System) on an HPC server, managing job scheduling and resource allocation effectively.

Founder

Dolphost

 2022 - 2024  Location

Webhosting and Domains

- Developed websites using WordPress, with a strong emphasis on security best practices and measures.
- Provided maintenance and sales of VPS and web hosting services, ensuring high performance and customer satisfaction.
- Engaged in domain reselling, managing registrations and transfers for various domains.
- Installed and configured technologies such as WHMCS and cPanel for managing web hosting services.
- More on: <https://merox.dev/websites/>

PROJECTS

HOMELAB

 2021 - Present  Giroc,TM

Core of My Homelab

Server Specifications

Model: Dell PowerEdge R720

RAM: 192 GB

Processors: Dual 6-core CPUs with Hyper-Threading (24 threads total)

iDRAC Controller: iDRAC7 Enterprise

Storage:

2 × 2TB SSD

6 × 300GB SAS drives at 6 Gb/s

- **RAID 1** for the operating system, ensuring data redundancy
- **RAID 5** for storage, providing a balance of performance and fault tolerance
- Proxmox installation
- **VMs** configuration based on linux (centos, debian, arch, gentoo) and Windows (Windows server 2016, Windows 10, Windows 98)
- Vlan, WAF and Firewall configuration for my home network with Netgate firewall (running **pFsense**)
- **Portainer** for easily management of **Docker** environments.
- 2 x DNS server, one on a VM and another one onRaspberryPI, configured with keepalived for redundancy
- **K3S** Cluster w/ **Rancher**
- More on: <https://merox.dev/laboratory/>

Websites

 2012 - Present  Online

Over the past 10 years, I have developed a diverse range of websites utilizing various platforms and technologies, including WordPress, Joomla, PHP-Fusion, PHPBB, Hugo, and MkDocs Squidfunk. My experience encompasses everything from small personal blogs to complex content management systems, allowing me to hone my skills in web development, design, and security.

- More on: <https://merox.dev/websites/>

ACHIEVEMENTS



Cisco Certified Network Associate

Certificate verification number: NJXWKRF7D1EQ7C0

EDUCATION

Computer Science: Studies suspended

West University of Tiimisoara

📅 2016 - 2018 📍 Timisoara, TM