

# ROBERT MELCHER

## System Administrator

+40 721 519 094

@ hello@merox.dev

https://www.merox.dev

https://www.linkedin.com/in/robert-melcher-92a1a9157

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.
- Troubleshooted 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

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### 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 minnions 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.

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### 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

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### 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 on RaspberryPI, configured with keepalived for redundancy
- **K3S** Cluster w/ **Rancher**
- More on: <https://merox.dev/laboratory/>

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### 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/>

## EDUCATION & ACHIEVEMENTS

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#### Computer Science: Studies suspended

West University of Timisoara 2016-2018



#### Cisco Certified Network Associate

Certificate verification number: NJXWKRFD7D1EQ7C0