

# Ionut Adrian Ciolan

SYSTEM ADMINISTRATOR

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## Education

### „Titu Maiorescu” University

MASTER STUDIES IN CYBER SECURITY

Bucharest, Romania

Jul. 2025

### „Spiru Haret” University

BACHELOR’S DEGREE IN MUSIC PEDAGOGY

Bucharest, Romania

Jul. 2012

## Skills

<b>Comfortable Linux Distros</b>	ArchLinux, Debian
<b>Shells</b>	Bash, Zsh, Fish
<b>Scripting</b>	Bash, Python, Perl, JavaScript
<b>Databases</b>	MySQL/MariaDB, PostgreSQL, Elasticsearch
<b>Networking &amp; VPN</b>	OpenVPN, Tinc VPN, PowerDNS, BIND, VLANs, DHCP
<b>Storage &amp; Filesystems</b>	ZFS, LVM, RAID
<b>Monitoring</b>	Zabbix, Nagios, Monit
<b>DevOps Tools</b>	Docker, Git, Ansible, .deb/.rpm Packaging
<b>High Availability</b>	Keepalived, MySQL Replication, Failover
<b>Markup</b>	Markdown, HTML, CSS, <del>LaTeX</del> $\text{\LaTeX}$
<b>Virtualization</b>	Proxmox, KVM, Citrix-Xen, VmWare
<b>Cloud &amp; Hosting</b>	Hetzner, Azure, AWS
<b>Spoken</b>	Romanian, English

## Experience

### NetConnect Group

SYSTEM/NETWORK ADMINISTRATOR & DEVOPS ENGINEER

Bucharest, Romania (Remote)

Mar. 2024 - Present

- Infrastructure & Automation
  - Designed and deployed production High Availability DNS infrastructure using PowerDNS, MySQL Master-Slave replication, and Keepalived VIP failover serving 20+ zones with automatic failover/failback mechanism
  - Developed custom automation tools including parallel OCR indexing system (48+ workers) reducing Nextcloud indexing time from 77 days to hours using Python multiprocessing and Tesseract OCR
  - Built infrastructure management CLI tool (InfraManager) for dynamic service/node orchestration with YAML-based state tracking
  - Automated SSL/TLS certificate management across multiple servers using certbot, Ansible, and custom bash orchestration
- Migration & Integration
  - Migrated legacy Xen virtual infrastructure to Proxmox/KVM using custom Python/Bash tooling
  - Maintained and integrated telecom services: CDR processing, portability systems, FreeSWITCH VoIP infrastructure
  - Implemented Elasticsearch indexing with Nextcloud-compatible format for full-text search
- Technologies:** PowerDNS, MySQL/MariaDB, Keepalived, Docker, Python, Bash, Ansible, Elasticsearch, Proxmox, Zabbix

## RnD Software Group

SYSTEM / NETWORK ADMINISTRATOR

Bucharest, Romania

Apr. 2021 - Mar. 2024

- Infrastructure & Virtualization
  - Deployed and managed Proxmox KVM clusters on Hetzner bare-metal infrastructure with ZFS RAID1 storage
  - Designed multi-tier networking: VLANs (10.249.0.0/16), NAT networks (10.248.x.x/24), centralized DHCP
  - Built Debian VM templates with automated provisioning (LVM, qemu-agent, Docker pre-installed)
  - Migrated legacy virtual infrastructure to newer Proxmox clusters with minimal downtime
- Monitoring & Automation
  - Deployed Zabbix monitoring infrastructure with Ansible automation (agent deployment, configuration management)
  - Created custom automation scripts: PostgreSQL backups, integrity checks, system maintenance
  - Managed multi-site VPN infrastructure: OpenVPN (multi-port routing), Tinc VPN for site-to-site connectivity
- **Technologies:** Proxmox, KVM, ZFS, Ansible, Zabbix, OpenVPN, Tinc, Docker, PostgreSQL, Debian Linux, Hetzner Cloud

## mySMTP.dk

SYSTEM ADMINISTRATOR AND DEVELOPER

Bucharest, Romania

Apr. 2015 - May 2021

- System Administration and Troubleshooting
  - virtual machines building/deployment/management using Citrix XenServer / VmWare VSphere resources allocation based on user's needs
  - services configuration (virtualized linux): network / firewall setup, rotating IPs, dns, httpd, mysql, postfix, policyd, monit, nagios and custom built daemons and scripts, etc
  - perform routine/emergency maintenance of linux machines (install security patches, software deployments/upgrades/downgrades, etc).
  - inhouse .deb packaging and apt repo server administration (setup the repo serve, sign packages using GPG, maintain the repo)
  - mailserver routing using buffer servers to facilitate sendings for vip clients, throttling and transport-based rotating ip setups
- Support
  - troubleshooting problems with linux services in use
  - receiving / resolving tickets and offer support on call/remote
- Development
  - automation scripts for managing local services (apache, postfix, cluebringer (policyd), mysql, dnsmasq) and syncing/updating machine's info and statistics with the dedicated platform's web app (dashboard), using Bash / Perl
  - web applications for the admin & user dashboard of the dedicated platform using Perl (cgi) and Shell scripting
  - smtp.dk shared website part of development including frontend development (using HTML / CSS / JavaScript for creating custom content/apps over Joomla Framework) as well as backend development (Perl modules for an in-house built - services spawner)
  - development of the smtp.dk shared website's user dashboard application using PHP / JavaScript

## UTI GRUP

SOFTWARE IMPLEMENTATION AND SUPPORT SPECIALIST

Bucharest, Romania

Apr. 2014 - Apr. 2015

- Installing and maintaining software on UTI equipments for RATB (now STB - Bucharest Transport Company).
  - on site installation and configuring OS (Windows) and proprietary software for ticket offices equipment
  - on site hardware troubleshooting, maintenance and/or replacement for ticket offices equipment
  - remote support for ticket offices
  - NFC equipment installation, troubleshooting and repair
- troubleshooting - repairs including cabling, computer and network configuration for other UTI clients (ALPA - Lakes, Parks and Recreation Administration of Bucharest)

## Self-employed

FREELANCER

Bucharest, Romania

Jan. 2010 - Apr. 2014

- Linux system and network administration for small businesses
  - Server configurations: apache, postfix, bind, ftp, openvpn, firewall, sshd
  - NAS configurations and network infrastructure setups
  - Web development and system integration projects

**La Fantana**

IT SUPPORT ADMINISTRATOR

*Bucharest, Romania**Jun. 2008 - Sep. 2009*

- Windows Server 2008 administration (Domain/User Management), workstation support, VoIP equipment setup and maintenance

**Macsys-Conectix**

NETWORK TEAM LEAD

*Bucharest, Romania**Oct. 2005 - May. 2008*

- Led network infrastructure teams for UPC (Astral Telecom) projects: task organization, workflow management, quality control, and technical escalation
- Hands-on network deployment: Optical Fiber soldering, CATV/UTP cabling, multi-OS client setups, Linux server configuration (DHCP, iptables)