

## 👤 SUMMARY

**Searching for a job in IT, be it remote or onsite (Iasi, Romania).**

Please do not contact me for opportunities that require skills that I do not own, nor for ones that require less skills/expertise than I currently have.

Eighteen year old with 23yr experience in \*nix based systems.

Perl, bash, sed, awk, make, cmake, some ansi c, some php, some python, kernel hacking, embedded dev (mips, arm, atmel/arduino). Networking experience: Mikrotik, Cisco L2-3, Juniper, bgp, ospf, rip, IpSec, multihoming. Virtualization: OpenVZ, Xen, Kvm, Qemu, VmWare, VirtualBox, FreeBSD containers, lxc, docker

♣ Worked for one employer for 11 years. Started as a sysadmin with some embedded development tasks (porting stack to a different platform - openwrt based with c/cmake/make/bash and some scripting and backporting of libraries), switched to devops and then devops lead - where I managed a team of 8 members maximum.

♦ Led some big clients from heads to toes, as Orange France - for their SmartHome platform - hardware requirements for the platform, datacenter design with vmware, backporting app to RedHat (from Debian), deployments with rundeck and ansible, monitoring and end-to-end testing automation using containers, scripts and headless browser leveraging PhantomJS.

♠ For another big client (Nortek), created a setup that had to provide services to a set of alarm panels which connected to our private network through 3G provided by AT&T. The connection between AT&T and our VPC used multiple IPsec tunnels and BGP.



## Alex Negulescu

Sr DevOPS, SmartHome/IoT & Networking

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(<http://alecs.github.io/cv.pdf>)

## EDUCATION

**Engineer's degree (NO LICENSE)**  
„Gheorghe Asachi” Technical University, Iasi  
2011 - 2015

“Technologies and telecommunications systems”

**High school**

## EXPERIENCES

**Sr DevOPS Engineer** September 2024 - current  
Move Travel Technologies LTD

### Managing infrastructure in AWS

#### Used skills/tools:

- Terraform
- Helm
- docker
- aws cli & api
- bash
- python
- podman
- rundeck
- ArgoCD

#### Notable projects

- implementing a monitoring system with prometheus, grafana, elasticsearch
- repurpose multiple repositories handling infra into one single project, improving structure and optimising the deployment flow
- implementing autoscaling with keda, to optimise cost and speed

Name and address of employer:

Move Travel Technologies LTD, 5 Hatidhar St.,  
4366507 Ra'anana

**Sr DevOPS Engineer and Team Lead** September 2024  
**(JACK OF ALL TRADES)**

eZLO

**Caring for clusters (k8s, docker), servers, virtual machines,  
alongside firmware integration, packaging  
(deb/rpm), analytics (ELK)**

**Lead for:**

- devops/sysadmins
- firmware integration team (2014-2020)
- analytics (ELK) (2016-2020)

**Activities:**

„Gheorghe Airinei” Technical College,

Bucharest

1999 - 2003

Telecom electronist

## LANGUAGES

Romanian (Native)

English (Fluent)

Spanish (Advanced)

French (Basic)

## INTERESTS

writing code

home automation

embeded devices

traveling

eating

making burgers

## RELATED COURSES

BrainBench Courses

Infrastructure design and deployment in AWS, GKE, DigitalOcean, Hetzner, Oracle, Azure or hybrid environments.

Automating cloud components build and deploy for k8s, docker, lxc/lxd or VM's with all the things in place:

- databases (including replication, sharding)
- NFS mounts, CEPH, iSCSI, glusterFS etc
- networking with multiple zones, firewall, routing rules, BGP, IPsec

Automation and management of:

- Gitlab
- Jenkins
- Rundeck

Writing IaC - Helm, Terraform, Puppet, Ansible

Maintenance of the server fleet (roughly 200-ish physical servers, VM's, AWS/EC2 or GCP hosts)

Package maintainer for our own internal software  
- Debian, RedHAT

Package maintainer for mips/arm (openwrt based)

Backporting libraries for OpenWRT apps (c/c++)

Porting packages for OpenWRT

Porting our solution to Intel Quark (Galileo)

Maintaining internal apps and tools

Maintaining analytics platform(s) and gathering of data, alongside other colleagues

Database monitoring, performance tweaking and configuration (mysql, postgresql)

Writing scripts for SysV init, OpenRC, systemd,

Monit, Nagios and others

Office networking - pfSense, OPNSense, Cisco, Mikrotik, Juniper, VLANs

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Name and address of employer: eZLO Romania,  
Poitiers 16 Blvd, Iași, Romania

**Perl programmer** August 2012 - Oct 2013

Mind CTI

Developing plugins/modules for the Nagios monitoring system, with Perl and C, both server part and client part (nsclient++/nrpe)

Create web interfaces with Perl

Patch internal scripts done by other colleagues or for OSS that Mind uses

Develop patches for ticketing system based on Otrs and maintain Oracle database

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Name and address of employer: Mind CTI, Ciurchi  
126-128, Iași, Romania

**Sysadmin** June 2005 - August 2010  
XCT.RO ONLINE

Management of servers and network  
Software/hardware testing  
Website developer - php, Perl, MySQL/PgSQL +  
wpress/textpattern/osCommerce  
Installing and configuring servers and  
workstations, switches and routers  
Maintaining the network for a small ISP with ±100  
customers

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Name and address of employer: SC HOL.RO SRL,  
C-tin Rădulescu Motru 25, 4rd district, Bucharest

## </> INDIVIDUAL PROJECTS

**helm-charts**  
(<https://github.com/SysOPSRO/helm-charts>)

Personal [charts \(https://charts.sysops.ro/\)](https://charts.sysops.ro/) I use  
for work and other projects. Right now it's only one  
package, busybox-httdp, which I specifically use to  
deliver the CA cert for K8s clusters deployed with  
the digitalocean-cluster-setup mentioned below.

**digitalocean-cluster-setup**  
(<https://github.com/SysOPSRO/digitalocean-cluster-setup>)

Needed an easy way to add RBAC (auth) to an  
existing k8s DigitalOcean cluster by bundling  
some open source tools into a simple to deploy  
helm repo.

**legacy-cloud-to-docker ()**  
eZLO LTD

Backported to docker with Alpine an app that  
required to be built and ran on Ubuntu 12.04 or  
Debian Jessie.

Managed to make it build in 4 steps via Gitlab CI  
and then run in docker or podman, using nginx as  
a reverse proxy.

## **encrypted-firmware-retrieval ()**

eZLO LTD

We needed to have a method to deliver embedded device firmware through a secured (or not) connection, but having the datastream protected in a dynamic way, so that every device downloading the firmware will be downloading different content, decrypting it locally after the download.

## **encrypted-backup ()**

eZLO LTD

Created an algorithm to encrypt the backup containing the critical files stored on an embedded device.

## **getPermissions ()**

eZLO LTD

Created an AWK script that was used to decode a base64 string and parse the encapsulated json, checking for certain variables and settings stored in the object.

## **OnCall manager ()**

Took LinkedIn's implementation of oncall and adapted it so it supports authenticating against database stored users. Created a roster managing script that fills the database per team needs. Code will be pushed online eventually.

## **motionpie** 2015 - 2016 (<https://github.com/alecs/motionpie>)

Ported the stack for Banana M3 PRO. Initially it was only working on Raspberry PI, and I only had BananaPI's. I had to use a different kernel and also adapt some build parameters. I also updated some packages that were installed by default.

## **fup.sh** (<https://github.com/alecs/fupsh>) 2013

While having a smallish ISP, the users were connecting through PPtP, and we needed a way of fairly sharing the outbound bandwidth between users.

There were also other methods, like using a VM and apply QoS on the traffic through it, but this was good enough at the time.

## **smokeping-plugins** (<https://github.com/alecs/smokeping-plugins>)

I was in need of a plugin that was small and fast and could run on a small monitoring system that I already had. So I created a minimal Perl plugin, that works with smokeping; the plugin monitors the current latency of a MySQL server.

## ■ GROUP PROJECTS

**Private datacenter cloud (Orange France) ()**  
eZLO LTD

Designed the architecture to run our solution in a private cloud, via virtual machines running Red Hat Linux on VMWare nodes.

Led all the aspects related to the project: meetings, design, porting from Ubuntu to Red Hat, installation, setup monitoring (passive and active).

**AWS SmartHome Cloud w private mobile APN in AT&T ()**

eZLO LTD

Our client was manufacturing and selling an alarm panel, with no WiFi capability - only 3g/4g SIM. We had to make a setup that was secure and accommodated client requests.

The SIM was provisioned in a different APN, with no access to DNS or any external service; it was only allowed to access specific IP addresses (which were private)

**trodesk-fork**  
(<https://github.com/SysOPSRO/trodesk>)

Needed an easy to manage service desk like alternative, since the team was big at that time.

Took the open source truedesk, adapted it to docker initially per this comment (<https://github.com/polonel/trodesk/issues/326#issuecomment-760354190>) and then also did a patch to have mobile UI working.

Have some other patches that were not published yet, including requirement to have tags to create a ticket, helm(k8s) deployment, nginx delivery of static content - ie only /api/ is delivered by trodesk itself.

**i-MSCP**  
(<https://github.com/SysOPSRO/imscp>)

OSS Hosting control panel, to which I contributed a few minor changes.

**aws-elk-billing**  
(<https://github.com/SysOPSRO/aws-elk-billing>)

Tools for Loading and Visualizing GCP and AWS  
Detailed Billing with ELK(Elasticsearch, Logstash,  
Kibana)

### **Analytics ()**

eZLO LTD

Gathering data from out cloud platforms, to be  
able to display metrics of the most important  
aspects of the business.

### **Logs download interface (for customer care) ()**

eZLO LTD

Using OSS, created a protected web portal to help  
customer care download logs from the client  
owned devices, so they help the client (and  
development team) debug any issues.

## **SKILLS & PROFICIENCY**

**QEMU XEN Proxmox OpenVZ LXC Docker**

**Kubernetes k3s podman**

**MySQL Administration PgSQL Administration**

**LAMP management Perl BASH ANSI C**

**Networking (IPv4) CISCO L2/L3 JunOS**

**Mikrotik iptables FreeBSD PF pfSense**

**OpenSense IpCOP OpenVPN IPsec**

**WireGuard Terraform helm**

## 🏆 HONORS & AWARDS

**Oracle DBA** 2013  
Mind CTI

## 💬 VOLUNTEER EXPERIENCES

**OpenSuse OBS Packager** 2020 - current  
Iasi, Romania

**TUIASI Network Admin** 2010 - 2013  
Iasi, Romania

**LTV Iasi CS Competition** 2011 - 2012  
Iasi, Romania

**ALT Linux packaging team** 2009 - 2013  
Iasi, Romania

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