

# Vucomir Ianculov

## DevOps Consultant & Infrastructure Engineer

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### PROFILE

Self-employed DevOps & Infrastructure Architect. Proven track record of building and managing production infrastructure at scale — from 200k+ IoT devices and 50+ microservices to blockchain networks and enterprise datacenter migrations. Equally comfortable architecting AWS environments across 60+ services, managing bare-metal servers, or writing custom Go tooling.

Key highlights:

- \$85k/month in combined infrastructure cost savings through optimization and autoscaling
- 200k+ connected devices managed as DevOps / Infrastructure Architect (Telly — smart TV platform)
- 50+ microservices across ECS, EC2, Lambda with full CI/CD pipeline built from scratch
- 60+ AWS services in production including Bedrock, Step Functions, Redshift, OpenSearch
- Autoscaling architecture handling traffic spikes up to 1M requests while cutting costs 60%
- Polkadot/Substrate blockchain infrastructure for 4 ecosystem clients (Aventus, Truth Network, VOW Token, Energy Web)
- 200+ HP-UX server datacenter migration for Siemens, BBC, Coca-Cola HBC, Adidas (via Atos)

### EXPERIENCE

**Telly** 2022 – Present

DevOps / Infrastructure Architect

Smart TV / media tech startup • [telly.com](https://telly.com)

- DevOps / Infrastructure Architect managing production environment for 200k+ connected smart TV devices
- Built the entire CI/CD pipeline from scratch using GitHub Actions with automated testing and deployments
- Manages 50+ microservices across ECS, EC2, and Lambda with full observability (CloudWatch, X-Ray)
- Designed IoT device provisioning and certificate management using AWS IoT Core
- Full AWS footprint: EC2, ECS, Lambda, CloudFront, S3, RDS, DocumentDB, ElastiCache, DynamoDB, SQS, SNS, Kinesis Firehose, Redshift, OpenSearch, Cognito, API Gateway, WAF, GuardDuty, Security Hub, Inspector, CloudTrail, Bedrock, Step Functions, Managed Airflow, MediaConvert, and 30+ more services
- Infrastructure-as-Code with Terraform; automation with Python

**Aventus / Truth Network / VOW Token / Energy Web** 2022 – Present

DevOps / Infrastructure Architect

Enterprise blockchain / Polkadot parachain ecosystem • [aventu.io](https://aventu.io)

- DevOps / Infrastructure Architect managing Polkadot/Substrate solochain and parachain infrastructure for 4 ecosystem clients
- Built the entire infrastructure from scratch — EKS clusters, networking, security, monitoring, and CI/CD
- Reduced monthly AWS costs from \$60k to \$20k through infrastructure optimization and right-sizing
- Deployed and secured blockchain nodes across dev, testnet, and mainnet environments
- Managed EKS clusters running dApps with ArgoCD GitOps deployments
- Built substrate-bootstrap (Go) for automated node bootstrapping and chain initialization
- Built avn-cloud-node for containerized Aventus Network node deployment
- Built EBS snapshot pipelines with event-driven architecture (CronJob → VolumeSnapshot → EventBridge → SQS → controller)
- Windows Authenticode code signing pipeline using AWS KMS (RSA 4096) with DigiCert OV certificates
- Node lifecycle management with Ansible-based EC2 provisioning and configuration
- Reusable Terraform modules for infrastructure-as-code; ArgoCD and Jenkins as shared CI/CD platform
- Deployed identical solochain and parachain infrastructure across 4 ecosystem clients

**Riskline** 2018 – Present

DevOps / Infrastructure Architect

Travel risk intelligence • [riskline.com](https://riskline.com)

- DevOps / Infrastructure Architect managing AWS infrastructure with multiple environments and applications

- ECS-based application deployments with full CI/CD pipelines
- Disaster recovery strategy using RDS snapshots with automated restore procedures
- Built DB restore tooling for dev/staging from production RDS snapshots with data sanitization
- MaxScale database proxy for connection pooling and read/write splitting
- Percona XtraBackup for MySQL/MariaDB hot backups
- ZFS-based filesystem snapshots with export/import tablespaces for fast database cloning

## **Softpro** 2016 – Present

### DevOps / Infrastructure Architect — Managed Hosting

Romanian software company • Full managed infrastructure

- Full managed hosting — end-to-end infrastructure responsibility
- Set up and maintain production environments including Docker containerization and orchestration
- Built CI/CD pipelines for automated testing, building, and deployment
- Implemented monitoring with Prometheus, Grafana, and Zabbix with alerting
- Deployed ELK stack (Elasticsearch, Logstash, Kibana) for centralized logging
- Configured multi-region backups with automated verification and retention policies
- Manage ongoing OS updates, security patching, hardening, and vulnerability scanning

## **Azets** 2015 – 2022 (7 years)

### Head of Operations & DevOps Technical Lead

Accounting & business services • Timișoara, Romania

- Rose from DevOps Technical Lead (2015–2019) to Head of Operations (2019–2022)
- Reduced monthly infrastructure costs from \$25k to \$10k by implementing autoscaling that handled traffic spikes up to 1M requests
- Led operations and DevOps teams, providing technical guidance and mentorship
- Managed relationships with external service providers — cloud providers and data centers
- Developed and managed the operations and DevOps budgets
- Developed and maintained disaster recovery and business continuity plans
- Selected and implemented tools and technologies for DevOps and Development teams
- Ensured systems and processes were secure and compliant with regulatory requirements
- Collaborated with Development and QA teams to integrate DevOps into the software development lifecycle
- Communicated with senior management stakeholders to align operations goals with business objectives
- Built automated DB restore pipelines from RDS snapshots to dev/staging with data sanitization
- Managed MaxScale DB proxy for MySQL/MariaDB connection routing and high availability
- Percona XtraBackup for hot backups; ZFS snapshots with tablespace export/import for fast DB cloning

## **Dell** 2013 – 2015

### Unix System Administrator

Bucharest • End-client: Enterprise Holdings (Vanguard / National / Alamo)

- Managed HP-UX & RedHat servers for Enterprise Holdings (Vanguard / National / Alamo)
- Administration of N/Vpars HP-UX 10.20, 11.00, 11.11, 11.23, and 11.31
- Administration of AIX and Linux systems
- Metro Cluster administration (ServiceGuard)
- Developed various operational tools and scripts for automation
- IT operations based on ITIL, on-call troubleshooting

## **Atos** 2010 – 2013

### Unix System Administrator

Timișoara • End-clients: Siemens, BBC, Coca-Cola HBC, Adidas

- Led datacenter migration of 200+ HP-UX servers
- OS upgrades from HP-UX 11.23 to 11.31 (IA) on Superdome V/NPar
- Administration of IA Superdomes 1/2, RP/X servers, and N/Vpars 11.23–11.31
- Administration of RAC ServiceGuard and Metro Cluster using EMC VMAX storage
- Storage administration using SYMCLI SRDF/BCV
- Server cloning via Ignite-UX
- Developed various tools and scripts for operational automation
- IT operations based on ITIL, on-call troubleshooting, server moves and migrations

## **OPEN SOURCE**

github.com/DevHatRo — Go-based infrastructure tools and Helm charts:

- ClamAV-API — Antivirus scanning API with gRPC, Docker support, and published Helm chart. Streaming scan support for large files.
- tf-state-move — Interactive Terraform state resource migration CLI. Available via go install, Homebrew, and binary releases.
- zero-trust-proxy — Zero Trust reverse proxy over mTLS with Docker-ready deployment
- ipfailover — IP monitoring daemon with automatic DNS failover updates
- argocd-proxy-api — ArgoCD Proxy API for managing deployments programmatically
- Helm charts published at [devhatro.github.io/helm-charts](https://devhatro.github.io/helm-charts)

## **TECHNICAL SKILLS**

**Cloud & Infra:** AWS (60+ services in production), Hetzner, Terraform, Ansible, Linux (RedHat, Ubuntu, HP-UX, AIX)

**Containers:** Kubernetes (EKS, AKS), Docker, ArgoCD, Helm, Blue-Green Deployments

**CI/CD & GitOps:** GitHub Actions, GitLab CI, Jenkins, ArgoCD, Bitbucket

**Monitoring:** Prometheus, Alertmanager, Grafana, Zabbix, ELK Stack, CloudWatch, X-Ray

**Programming:** Go, Python, Bash

**Databases:** PostgreSQL, Aurora, DocumentDB, DynamoDB, Redshift, ElastiCache, MySQL, MySQL Cluster

**Blockchain:** Polkadot / Substrate, Solochain / Parachain, node lifecycle management, chain bootstrapping

**Enterprise:** ServiceGuard, Metro Cluster, EMC VMAX (SYMCLI SRDF/BCV), Ignite-UX, N/Vpars, IA Superdomes, ITIL, DR/BCP

## **EDUCATION**

**Bachelor's in Computer Science** — West University of Timișoara

## **LANGUAGES**

Romanian (native) • Serbian (native) • English (C2 proficient)