DAVID ETI

DevOps & Cloud Infrastructure Engineer

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Work Authorisation: Belgium Student Residence Permit | Languages: English (Fluent), Dutch (Basic – actively learning)

PROFESSIONAL SUMMARY

Cloud & Infrastructure Engineer with hands-on experience designing, deploying, and debugging production-grade AWS infrastructure using Terraform, Docker, ECS Fargate, and GitHub Actions CI/CD pipelines. Delivered a multi-container real-time application with Redis Pub/Sub, ALB path-based routing, OIDC authentication, and Trivy container scanning. Currently extending infrastructure toward Kubernetes (EKS), Helm-based deployment workflows, and Grafana observability. Open to DevOps, Cloud, and SysAdmin roles across Belgium and the Netherlands.

TECHNICAL SKILLS

Cloud & IaC	AWS (ECS Fargate, ECR, IAM, ALB, VPC, CloudWatch, S3, SSM, Secrets Manager) · Terraform · Infrastructure as Code (IaC)
Containers	Docker · Multi-stage builds · Docker Compose · Trivy · Kubernetes · Helm
CI/CD	GitHub Actions · OIDC Authentication · Immutable image tagging · Automated ECS deployments · Pipeline security gates
Observability	CloudWatch · Structured JSON logging · ALB Health Checks · Grafana · Prometheus · Deployment circuit breakers
Networking	TCP/IP · DNS · DHCP · NAT · Subnetting · VPC Design · Security Groups · ALB · Path-based routing · WebSocket scaling
SysAdmin	Linux (Ubuntu) · Windows Server 2025 · Active Directory Domain Services · VMware Workstation · WSL2
Scripting	Bash · Python · PowerShell
Databases	MongoDB Atlas · Redis · ElastiCache · SSM-based secrets management
Methodologies	Agile · Cost-aware infrastructure · Least-privilege IAM · DevSecOps · GitOps

PROJECT EXPERIENCE

Novagram — Cloud Infrastructure & DevOps Project | Personal Project *2025 – Present*

github.com/EtiDavid/Novagram · Node.js · React · Socket.IO · MongoDB Atlas · Redis · Docker · ECS Fargate · Terraform · GitHub Actions

- Architected multi-container deployment on AWS ECS Fargate with ALB path-based routing — frontend (Nginx) and backend (Node.js) as independent services with separate scaling policies and target groups.
- Designed modular Terraform infrastructure: VPC, public/private subnets across two AZs, IAM execution and task roles, security groups, ALB listeners, ECS cluster, CloudWatch log groups, and SSM Parameter Store.
- Built GitHub Actions CI/CD pipeline with OIDC authentication — eliminating stored AWS credentials. Stages: test → Docker build → Trivy scan → immutable SHA tag → ECS deploy → health check verification.
- Implemented Redis Pub/Sub via Socket.IO Redis adapter to distribute WebSocket messages across multiple ECS task instances — solving the horizontal scaling problem for stateful real-time connections.
- Applied least-privilege IAM: execution role (ECR pull, CloudWatch write, SSM read) separated from task role (runtime AWS access). Trivy scanning with documented CVE deferral policy per vulnerability.
- Built /health endpoint checking MongoDB and Redis readiness — returns structured 503 degraded status so ALB routes away from unhealthy instances before users are impacted.
- Currently extending infrastructure toward Kubernetes (EKS) and Helm-based deployment workflows to support orchestration scalability and infrastructure portability.
- Shipped v2/v3 features: Redis-backed presence (online/away/offline with TTL), contact request flow, message delivery ticks (sent/delivered/read), S3 presigned avatar uploads, admin group management.

Windows Server & Linux Home Lab | Infrastructure Lab Project *2025 – Present*

VMware Workstation · Windows Server 2025 · Ubuntu · Active Directory · WSL2

- Configured Windows Server 2025 Domain Controller with Active Directory Domain Services, DNS, and Group Policy Objects (GPO) — simulating enterprise SysAdmin environment.
- Built member server and Windows client VM joined to domain; implemented OUs, user accounts, and GPO-enforced policies across the domain fleet.
- Resolved VBS/Hyper-V and VMware VPMC conflicts on Windows 11 Home using paired batch scripts to toggle between VMware and WSL2/Docker modes — demonstrating real hypervisor-level troubleshooting.
- Running structured Linux administration curriculum targeting RHCSA — covering file systems, user management, networking, systemd, and shell scripting on Ubuntu VMs.

PROFESSIONAL EXPERIENCE

Immersive Experiences Motion graphics designer Intern | Barco *Feb 2026 – Jun 2026*

- Produced motion graphics and technical visual content for enterprise immersive display solutions — gaining direct exposure to large-scale AV production infrastructure.
- Coordinated across cross-functional pipelines with content teams, AV engineers, and technical stakeholders — strengthening troubleshooting, delivery management, and production coordination skills.

EDUCATION

BA Visual Effects | Howest University of Applied Sciences *2022 – 2026*

Relevant focus: *Systems Design, Technical Pipelines, Scripting, Procedural Workflows*
Graduation Project: *Procedural Lightning FX System in Houdini*

CERTIFICATIONS & TRAINING

✓ Docker Fundamentals

✓ GitHub Actions CI/CD

✓ Terraform Fundamentals

✓ AWS ECS Fargate Deployment

✓ Windows Server 2025 Administration (Kevin Brown)

- Microsoft Azure Fundamentals AZ-900 (In Progress)
- Certified Kubernetes Administrator — CKA (Planned)
- AWS Solutions Architect Associate (Planned)