

ABARCHIHI Abdessamade

Cloud DevOps Engineer / SRE / Platform Engineer

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PERSONAL PROFILE

AWS-focused Cloud/DevOps Engineer with hands-on experience operating highly available, multi-AZ production infrastructure (EKS, Aurora, VPC, Lambda, SQS, S3) for high-transaction, regulated platforms. Skilled in Infrastructure as Code, CI/CD automation, security scanning, and cost optimization, with additional experience across Azure and OCI.

EDUCATION & CERTIFICATIONS

State Engineering Degree – Cloud & Distributed Systems 2022 – 2025

National Institute of Posts and Telecommunications (INPT) – Rabat, Morocco

Preparatory Classes (CPGE) – Industrial & Technology Sciences 2020 – 2022

Technical High School – Settat, Morocco

Certifications

- **Certified Kubernetes Administrator (CKA)** - Cloud Native Computing Foundation. [\[verify\]](#)
- **Certified Kubernetes Application Developer (CKAD)** - Cloud Native Computing Foundation. [\[verify\]](#)
- **Oracle Cloud Infrastructure Foundations Associate** - Oracle. [\[verify\]](#)

EMPLOYMENT EXPERIENCE

Cloud & DevOps Engineer — *CashPlus* (Casablanca, Morocco) May 2026 – present

- Operate AWS infrastructure (EKS, ECS, EC2) for core banking and monétique services, 20,000+ transactions daily.
- Architect highly available, multi-AZ environments with VPC, Aurora, DynamoDB, maintaining 99.9%+ payment uptime.
- Led an end-to-end migration to OCI for a national-scale logistics platform handling domestic and international parcel transfers, including a DynamoDB-to-Oracle NoSQL data migration, optimized for cost and performance.
- Establish secure VPN connectivity with banking and payment partners regionally, supporting 10+ external integrations.
- Run CI/CD on self-hosted runners with OIDC federation for keyless AWS auth, deploying from a private Nexus registry.
- Embed SAST and DAST security scanning into CI/CD pipelines, catching vulnerabilities and reducing CVE exposure pre-deployment across 15+ services.
- Manage Terraform state with remote backends and state locking, enabling safe team collaboration across AWS and OCI.
- Manage AWS IAM access control and partner with cross-functional engineering teams to align delivery with core banking release cycles.
- Apply FinOps practices, including resource right-sizing, across the AWS estate, cutting monthly costs by roughly 20% while scaling serverless workloads.

Technologies: AWS (EC2, ECS, EKS, VPC, Aurora, DynamoDB, Lambda, SES, WAF, IAM, CloudTrail, CloudWatch), OCI, Terraform, SAST/DAST, OIDC, Nexus, VPN, FinOps, PCI-DSS.

Cloud & DevOps Engineer — *Leyton* (Casablanca, Morocco, Hybrid) Feb 2025 – May 2026

- Built Jenkins pipelines for 10+ projects across multiple stacks, cutting average deployment time from hours to minutes.
- Designed serverless pipelines with Lambda, SQS, and S3, processing 200+ events daily for event-driven workflows.
- Replaced scheduled polling with S3 and Lambda event triggers, cutting notification latency from 60 seconds to under 2.
- Migrated a 5-node Kubernetes cluster from v1.28 to v1.33 with zero downtime, using ETCD-backed rollback safety.
- Scaled workloads with HPA between 2 and 10 replicas based on demand, cutting infrastructure costs by roughly 30%.
- Tuned PostgreSQL connection handling with pgPool pooling, boosting query throughput by 35% under peak concurrent load.
- Automated load testing across 5 servers, simulating 300+ concurrent users to validate stability ahead of every release.
- Versioned Helm charts for 4+ applications stored in a managed Nexus registry, reducing deploys to a single command.
- Provisioned a 3-node Kubeadm cluster to support distributed, multi-node workloads for Large Language Model inference.

Technologies: Jenkins, GitLab, SonarQube, Docker, Kubernetes, Kubeadm, Terraform, Sentry, MinIO, Prometheus, Grafana, AWS (Lambda, SQS, CloudWatch, S3, Secrets Manager), Odoo, pgBadger, pgPool.

- Provisioned a secure 3-tier Azure environment with private VNets, Azure DNS, and Container Apps for the application.
- Automated GitHub Actions pipelines for containerized services, with daily backups cutting recovery time roughly in half.

Technologies: Terraform, Azure Container Apps, VNet, GitHub Actions, Docker, Azure PostgreSQL.

TECHNICAL SKILLS

Cloud Platforms: AWS, Microsoft Azure, Oracle Cloud, GCP, OpenStack.
AWS Services: EC2, ECS, EKS, VPC, Aurora, DynamoDB, Lambda, S3, SQS, SES, IAM, WAF, CloudWatch, Secrets Manager.
Infrastructure as Code: Terraform, Ansible, Vagrant.
Containers & Orchestration: Kubernetes (CKA, CKAD), Docker, Helm, Kubeadm, OpenShift.
CI/CD & DevOps: Jenkins, GitLab CI, GitHub Actions, Azure DevOps, ArgoCD, FluxCD, SonarQube, Git.
Observability: Prometheus, Grafana, Sentry, Application Insights, pgBadger.
Security: AWS WAF, Azure Key Vault, HashiCorp Vault, RBAC, OIDC, IAM, SAST/DAST, Network Policies, Check Point CloudGuard, Keycloak.
Languages: Python, Bash, Java, JavaScript.

TECHNICAL SIDE PROJECTS

KubeCortex: AI-Driven Kubernetes Management github.com/Abdessamade03/kube-cortex ↑

- Built a multi-cluster Kubernetes management and monitoring platform inspired by Rancher.
- Developed a diagnostic engine with LiteLLM and RAG to analyze logs and suggest automated fixes.

Technologies: Kubernetes, Python, FastAPI, LiteLLM, RAG, Helm.

Martial Apps: Azure Infrastructure for AI Buddy Catalyst Labs [Freelance, Remote](#)

- Architected Terraform-managed Azure infrastructure across 3 environments, hosting a full-stack NestJS/Next.js application on AKS and ACA.
- Secured the stack with a private VNet, Azure Key Vault, and OIDC-based CI/CD, removing plaintext credentials and long-lived secrets.

Technologies: Azure (AKS, Container Apps, VNet, Key Vault), Terraform, GitHub Actions, OIDC.

SmartGrocy: Agentic AI Deployment on Azure [Freelance, Remote](#)

- Provisioned Azure Container Apps infrastructure with Terraform for an agentic reasoning engine.
- Secured production with Private Links and Managed Identities; tracked flows with Application Insights.

Technologies: Azure, Terraform, Gemini API, LangGraph.

ACTIVITIES & INTERESTS

- **Vice President, Social Affairs Club (INPT):** Organized humanitarian caravans for remote Atlas families and Al Haouz earthquake relief; coordinated volunteers and sponsorships.
- **Design Cell Leader, INPT Olympiades 2024:** Led visual identity team; delivered Photoshop & Illustrator workshops to 50+ students.
- **Sports:** Captain of INPT football team; finalist of INPT Olympiades 2023.
- **Freelance Graphic Design:** Built brand identities and social media visuals for 20+ clients.

LANGUAGES

English | French | Arabic