Ahmad M. Waddah

Platform Engineer | Linux, Django, DevOps, Cloud

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PROFESSIONAL SUMMARY

Platform Engineer with 6+ years of experience designing, automating, and operating Linux-based production systems. Hands-on across the stack: Rocky Linux, AlmaLinux, and Ubuntu administration (systemd, networking, firewalls, SSH hardening), infrastructure as code with Ansible, KVM/QEMU virtualization, Docker containerization, and GitHub Actions CI/CD. Builds and deploys Django applications with HTMX, PostgreSQL, Celery, and Redis, backed by pytest suites and automated quality gates. Operates Hetzner Cloud infrastructure end to end — provisioning, Nginx reverse proxy, TLS, monitoring with Prometheus and Grafana, and backup automation. Focused on reproducible infrastructure, observability, and reliable delivery.

CORE COMPETENCIES

Linux & Server Administration:
Rocky/AlmaLinux/Ubuntu, systemd, cron, users/permissions, log management, package management (dnf/yum/apt), networking (ss, firewalld, UFW, SELinux), SSH hardening, fail2ban, logrotate

Cloud & Networking:
Hetzner Cloud VPS, Nginx reverse proxy, Let's Encrypt/TLS, DNS, firewalls (UFW/firewalld), AWS fundamentals (Cloud Practitioner)

Databases & Operations:
PostgreSQL optimization, SQLite, database design, Redis, backup automation, Prometheus, Node Exporter, Grafana monitoring

Virtualization & IaC:
KVM/QEMU, libvirt, virt-install, Kickstart, cloud-init, multi-VM orchestration, declarative VM specs, Ansible roles/playbooks/Vault, Hetzner Cloud infrastructure

Python & Django:
Django, Django REST Framework, Celery + Redis, Django templates, HTMX, HTML5, CSS3, Vanilla JavaScript, Chart.js, SASS/SCSS, responsive design

Containers & Automation:
Docker, Docker Compose, GitHub Actions CI/CD, Ansible, Bash scripting, Git, GitHub

Testing & Quality:
pytest, pytest-django, coverage reporting, Black, ruff, isort, pre-commit hooks

KEY PROJECTS

AMW-ShowCases
Portfolio and blog platform hosted on Hetzner Cloud. Django/HTMX application deployed behind Nginx with Let's Encrypt TLS, Gunicorn under systemd, UFW and fail2ban hardening, logrotate, Ansible Vault secrets, and a GitHub Actions provisioning workflow.
Django · HTMX · Hetzner Cloud · Nginx · Let's Encrypt · systemd · Ansible Vault · GitHub Actions
GitHub: github.com/AhmadMWaddah/AMW-ShowCases

DigitalWallet
Fintech dashboard on Django 5.2 LTS with HTMX and PostgreSQL. Client/staff portal separation, atomic transactions, fraud detection, Celery + Redis asynchronous PDF statements via ReportLab, and analytics dashboards.
Django 5.2 · HTMX · PostgreSQL · Celery · Redis · ReportLab
GitHub: github.com/AhmadMWaddah/DigitalWallet

ansible-vm-provisioning
Ansible-provisioned multi-tier environment across web, app, and database tiers. Roles cover Docker installation, Nginx reverse proxy, PostgreSQL hardening, vault-encrypted secrets, and GitHub Actions CI/CD.
Ansible · Docker · Nginx · PostgreSQL · Ansible Vault · GitHub Actions
GitHub: github.com/AhmadMWaddah/ansible-vm-provisioning

enterprise-linux-setup
Three-tier Rocky Linux 9 environment on KVM/QEMU (web, app, db) with hardened configuration, automated cron backups, systemd services, and Prometheus + Node Exporter + Grafana dashboards.
Rocky Linux 9 · KVM/QEMU · systemd · cron · Prometheus · Node Exporter · Grafana
GitHub: github.com/AhmadMWaddah/enterprise-linux-setup

KVM_Spin_Ups
Pure Bash IaC tool for KVM/QEMU provisioning: kickstart unattended installs, multi-VM orchestration, declarative VM specs, SHA-512 password hashing, SSH-only root login disabled. Zero to running VM in under 10 minutes on Rocky Linux and AlmaLinux.
Bash · KVM/QEMU · libvirt · Kickstart · IaC
GitHub: github.com/AhmadMWaddah/KVM_Spin_Ups

AMW_Django_ERP
Production-grade ERP: employee identity, inventory with WAC valuation, sales and purchasing workflows, policy-based IAM, audit logging, and HTMX UI. 11 phases, 259 tests, PostgreSQL, Redis, Celery, Docker, and GitHub Actions CI/CD.
Django · PostgreSQL · Redis · Celery · Docker · GitHub Actions · pytest
GitHub: github.com/AhmadMWaddah/AMW_Django_ERP

Pulse_Feed
Real-time social platform on Django, HTMX, and WebSockets with Redis channel layer and PostgreSQL. Server-rendered HTML with instant notifications and no JavaScript framework.
Django · HTMX · WebSockets · Redis · PostgreSQL · Docker
GitHub: github.com/AhmadMWaddah/Pulse_Feed

SecScan
Ubuntu security scanner wrapping rkhunter and chkrootkit, parsing results into actionable reports.
Bash · rkhunter · chkrootkit · Linux
GitHub: github.com/AhmadMWaddah/SecScan

SysMaint
One-command Ubuntu maintenance: package updates, cleanup, and structured logging with error handling.
Bash · apt · systemd · logging
GitHub: github.com/AhmadMWaddah/SysMaint

Linux Automation Infrastructure
Ansible multi-tier deployment: Docker setup, Nginx reverse proxy, PostgreSQL hardening, vault-encrypted secrets, and GitHub Actions CI/CD.
Ansible · Docker · Nginx · PostgreSQL · Ansible Vault · GitHub Actions
GitHub: github.com/AhmadMWaddah/ansible-vm-provisioning

PROFESSIONAL EXPERIENCE

Operations & Technical Lead

International Educational Products Exporter | Jan 2019 – Present | Cairo, Egypt

- **Built Python and Bash automation** for high-volume data workflows, reducing a recurring 4-hour weekly task to under 5 minutes (95% reduction).
- **Developed data validation tools** and Excel-based automation, eliminating duplicate entries across large datasets.
- **Managed operational configuration** across five international markets, standardizing data structures and business rules.
- **Built responsive page layouts** and dynamic content structures with HTML5, CSS3, and JavaScript.
- **Served as primary technical liaison** for platform and API issue resolution, producing structured problem reports and escalation handling.

TECHNICAL WRITING

Terraform + Ansible: Deploy Django Without Manual Server Steps — Infrastructure as code for reproducible Django deployments.
amw.work.gd/blog/terraform-ansible-deploy-django-without-manual-server-steps/

A Working CI Pipeline for Django: What Actually Needs to Run — Tests, linting, and security scanning with GitHub Actions.
amw.work.gd/blog/a-working-ci-pipeline-for-django-what-actually-needs-to-run/

HTMX Lets You Skip the Frontend Framework — How It Works — Server-rendered HTML fragments instead of JSON APIs and heavy JavaScript.
amw.work.gd/blog/htmx-lets-you-skip-the-frontend-framework-how-it-works/

Why Django ORM + PostgreSQL Indexing Defines Query Speed — Index design and query performance for PostgreSQL-backed Django applications.
amw.work.gd/blog/why-django-orm-postgresql-indexing-defines-query-speed/

How I Deploy My Django App: One VM, Ansible, Docker — Provisioning a single Hetzner VM with Ansible and Docker, written as reproducible code.
amw.work.gd/blog/how-i-deploy-my-django-app-one-vm-ansible-docker-and-what-i-learned-writing-it-down/

When the Scanners Came Knocking: A Production Security Retrospective — Hardening a production Django deployment after automated vulnerability scans.
amw.work.gd/blog/production-security-retrospective-scanner-incident/

EDUCATION & CERTIFICATIONS

Al Zaytoon Wireless Institute — Post-Secondary Diploma in Telecommunications & Radio Systems (GMDSS) | 2.5-year program
AWS Cloud Practitioner — Credly Badge | Cloud fundamentals, AWS services, deployment models

Note: Based in Giza, Egypt (GMT+2). Available remotely and flexible across time zones.