Ameer Hamza

Linux Systems Engineer · Infrastructure, Monitoring & Security

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SUMMARY

Linux systems engineer with 2+ years running production telecom infrastructure, as part of a team that manages 350+ servers (bare metal, VMs, containers and cloud VMs across multiple providers), and 4 years of freelance work. I build and operate bare-metal, Proxmox and VMware environments, load-balanced web tiers, replicated MySQL and MongoDB, and Prometheus/Grafana monitoring, and I bring a penetration tester's eye to everything I deploy. 67 orders on Fiverr and Upwork, 5.0★ from 23 reviews.

EXPERIENCE

Linux System Engineer · Hoboetech Pvt. Ltd. · Lahore — Jul 2024 – Present

- Part of the infrastructure team that runs and maintains 350+ servers (bare-metal hosts, VMs, containers and cloud VMs across multiple providers), covering builds, patching, monitoring, incident response and disaster recovery.
- Run a 4-node Proxmox VE cluster with HA, watchdog fencing and ZFS replication every 15 minutes, keeping 16 critical VMs and containers on automatic failover; upgraded it from Proxmox VE 8 to 9 one node at a time.
- Built the infrastructure for a six-application telecom messaging platform across 20+ servers: OS installs, networking, HAProxy load balancing and replicated MySQL and MongoDB.
- Provisioned an 18+ server, multi-zone environment on VMware Cloud Director with edge firewalls, NAT and IPsec VPN tunnels between zones, plus cross-zone replication for disaster recovery.
- Deployed a 3-node Wazuh SIEM cluster and onboarded 70+ servers, with log collection matched to each server's services, active response for brute-force and web attacks, file-integrity monitoring with YARA scanning, vulnerability detection and WhatsApp alerts.
- Wrote and open-sourced Prometheus exporters for Kannel, smppbox and KSMPPD with Grafana dashboards and 29 alert rules, giving per-customer and per-operator-link visibility across the SMS gateway fleet.
- Brought 18 bare-metal servers and 40+ LXC containers under Grafana monitoring, and centralised logs with Loki, Graylog and ELK, with alerts on critical log patterns.
- Support A2P/P2P messaging traffic for national mobile operators and enterprise customers: SMPP routing, load balancing and log analysis.
- Maintain backup servers and disaster-recovery runbooks; automate builds and configuration with Ansible, Bash and Python.

Linux & Security Engineer · Fiverr & Upwork · Remote — Oct 2022 – Present

- Completed 67 orders on Fiverr and Upwork with a 5.0★ average across 23 reviews, including repeat clients who came back for months.
- Took three AI-infrastructure projects open source for a US startup: the client handed over the code, and I handled history audits, repository structure and GitHub SEO (names, descriptions, topics), licensing, Conventional Commits and squash-merge rules, branch rulesets with CODEOWNERS, Dependabot, secret scanning and private vulnerability reporting, CI and release workflows, and community files.
- Taught penetration testing with Kali Linux one to one to students in the US, UK, Poland and the Gulf.
- Built and hardened Linux servers, fixed Docker and container problems, and ran web and Active Directory penetration tests with written reports.

DevOps Intern · The Dev Corporate (TDC) · Lahore — Jan 2023 – Mar 2023

- Deployed containerised applications with Docker and Kubernetes and practised CI/CD with Jenkins and infrastructure as code with Terraform.
- Administered Linux servers and deployed workloads on AWS (EC2, ELB, Auto Scaling, Route 53).

Cybersecurity Trainee · Corvit Systems · Lahore — Mar 2022 – Sep 2022

- Completed a six-month cybersecurity programme (NAVTTC, grade A+) covering penetration testing methodology and Linux administration.
- Configured, deployed and hardened Cisco ASA/ASAv, Huawei NGFW, WSA, ESA and WAF, plus switches and routers.

SELECTED PROJECTS

Proxmox VE HA cluster with automatic failover

Infrastructure · HA

A 4-node production cluster where every critical service has a failover partner and storage replicates every 15 minutes, upgraded from Proxmox VE 8 to 9 one node at a time. 16 guests under HA · ≤15 min replication · 3 cluster links

Open-source monitoring for SMS gateways

Monitoring · Open source

Prometheus exporters, Grafana dashboards and alert rules for Kannel, smppbox and KSMPPD. Built for production, then open-sourced under Apache-2.0. 3 exporters · 70+ panels / dashboard · 29 alert rules

Production platform for a telecom messaging service

Infrastructure · Databases

Infrastructure for a six-application enterprise messaging platform across 20+ servers: OS builds, HAProxy, replicated MySQL and MongoDB, monitoring and disaster recovery. 20+ servers · 6 applications · 18 + 40 hosts monitored

Multi-zone cloud environment on VMware Cloud Director

Cloud · Networking

An 18+ server environment for a telecom communications platform across availability zones, with edge firewalls, NAT, IPsec tunnels between zones and cross-zone replication. 18+ servers · Multi-zone · IPsec between zones

Centralised logging for a production fleet

Observability

One place to search every log (Apache, syslog, SSH sessions, network devices, Kannel and custom apps) with retention rules, dashboards and alerts on critical patterns. Loki + Promtail · Graylog / ELK · Alerts on log patterns

Network security & Active Directory lab, and how I run assessments

Security · Pentesting

A segmented lab with pfSense, an Active Directory domain, Linux and Windows clients and OpenVAS, where I practise the attacks I test for. Plus my method for client web and AD assessments. pfSense + AD domain · OpenVAS / GVM · Web & AD testing

SKILLS

- **Linux & Infrastructure:** RHEL / Rocky, Ubuntu, Debian, Proxmox VE, VMware vCD, ZFS · LVM · NFS, HAProxy, Nginx, Apache2, Ansible, Docker, AWS
- **DevOps & Automation:** Ansible, Docker, Docker Compose, GitHub Actions, Jenkins, Bash, Python, PM2, AWS, Kubernetes, Terraform, Cloudflare
- **Databases & High Availability:** MySQL, MongoDB, Redis, Dragonfly, Replication, Failover, Backups, DR runbooks
- **Monitoring, Logging & Telecom:** Prometheus, Grafana, Alertmanager, Loki, Graylog, ELK, Node-RED, Kannel, SMPP, SIP
- **Security & Penetration Testing:** Wazuh SIEM, FIM · YARA, Kali Linux, Metasploit, OpenVAS / GVM, Nessus, Nikto, OWASP ZAP, Wireshark, pfSense, Cisco ASA, Hardening
- **Open-Sourcing Production & Company Software:** Repo structure & naming, GitHub SEO: description & topics, Licensing, Secret & history audit, Conventional Commits, Squash-merge strategy, Branch rulesets, CODEOWNERS, Dependabot, Secret scanning, SECURITY.md, GitHub Actions, SemVer releases, Issue forms & labels, Discussions

EDUCATION

BS (Hons) Computer Science · Government College University (GCU), Lahore

2020 – 2024

A four-year computer science degree with a strong systems core: operating systems, computer networks, databases and algorithms, the foundations I now use every day on production servers.

CERTIFICATIONS

- **IBM Cybersecurity Analyst Professional Certificate**, IBM · Coursera · Jan 2023
- **Certificate in Cyber Security**, NAVTTC · Corvit · Sep 2022
- **Cybersecurity Capstone: Breach Response Case Studies**, IBM · Coursera · Dec 2022
- **Network Security & Database Vulnerabilities**, IBM · Coursera · Aug 2022
- **Cybersecurity Roles, Processes & OS Security**, IBM · Coursera · Aug 2022
- **Introduction to Cybersecurity Tools & Cyber Attacks**, IBM · Coursera · Aug 2022
- **The Bits and Bytes of Computer Networking**, Google · Coursera · Aug 2022
- **HCIA-Cloud**, Huawei · Apr 2022
- **HCIA-Security**, Huawei · 2022
- **Cisco CCNA (200-301) Cert Prep 1: Network Fundamentals and Access**, LinkedIn Learning · Jun 2024
- **Advanced Kali Linux**, LinkedIn Learning · Nov 2022
- **Introduction to Ethical Hacking**, Great Learning · Jul 2022
- **Docker Essentials**, LinkedIn Learning

LANGUAGES

English (professional), Urdu (native), Hindi