KHAWAR BAIG

Islamabad, Pakistan | +92 310 9696200,03339008120 | khawarbaig1654@gmail.com | [GitHub Profile](#)

PROFESSIONAL SUMMARY

Experienced **DevOps & Infrastructure Engineer** with a strong background in **cloud computing, virtualization, database management, networking, and automation**. Proficient in **MariaDB Galera Cluster administration, API testing (Postman), system monitoring (Nagios, Icinga2), and cloud-based infrastructure (AWS, Azure, Proxmox, VMware)**. Adept at **managing high-availability environments, CI/CD automation, and ensuring seamless IT operations**.

CORE SKILLS

Infrastructure & Cloud Technologies: IaaS, PaaS, SaaS, AWS, Azure, Proxmox, VMware
Database Administration: MariaDB, MySQL, Galera Cluster, HAProxy, Replication
Networking & Security: pfSense Firewall, VLANs, ACLs, VPN, HAProxy, Apache Reverse Proxy
Monitoring & Troubleshooting: Nagios, Icinga2, System Logs, Performance Optimization
DevOps & Automation: CI/CD Pipelines, Jenkins, Docker, PowerShell, Bash Scripting
Windows & Active Directory: Server 2016/2019, Group Policy, AD Federation Services (ADFS), Azure AD
Application & API Testing: Postman, REST APIs, SOAP APIs
Project & Task Management: Jira, Trello

PROFESSIONAL EXPERIENCE

Nordek BlockChain (Singapore)| Remote | *March 2025-June 2025(freelancer]*

- Managing and maintaining infrastructure and VMs on **DigitalOcean** for production and development environments.

- Performed routine server maintenance, patching, and backup strategies to ensure high availability and reliability.

- Implemented infrastructure-as-code using **Terraform**.

- Utilized **Kurtosis** to orchestrate, test, and package complex **blockchain infrastructure environments**, ensuring reproducible and isolated development and testing environments.

- Developed and executed **integration and end-to-end test suites** for blockchain-based repositories.

- Automated the **build and deployment pipelines** using CI/CD tools (e.g., GitHub Actions, GitLab CI, Jenkins), integrated with Kurtosis to validate service behavior in multi-container setups.
- Collaborated closely with the development team to support deployment of web applications and microservices.

Direct Debit System FZ LLC, Dubai

DevOps & Infrastructure Engineer *(July2024 – March2025)*

- **Infrastructure Management:** Handling **private cloud infrastructure** on RHEL Edge, ensuring server security, performance, and uptime.
- **MariaDB Cluster Administration:**
  - Performed routine **cluster maintenance, patching, and graceful stop/start operations**.
  - Managed **single-node, multi-node, and full-cluster recovery** to maintain high availability.
- **CI/CD & Application Deployment:**
  - Automated **deployment pipelines** for production environments, ensuring seamless updates on RHEL OS.
  - Configured and maintained **CI/CD workflows** to enhance deployment efficiency.
- **Networking & Security:**
  - Configured **firewalls, ACLs, VLANs**, and optimized network performance.
  - Managed server access controls and security policies.
- **Database Operations:**
  - **Optimized database queries**, handled backend transactions, and ensured data integrity.
  - Worked on **payment tracking, troubleshooting merchant transaction issues**, and reprocessing failed Direct Debit Authority (DDA) requests.

Webdoc Pvt Ltd, Islamabad

VAS/Network/Infrastructure Engineer *(May 2022 – 2024)*

- **Cloud & Virtualization Management:**
  - Managed **on-premises, public (AWS, Azure), and private cloud (Proxmox, VMware)** environments.
  - Configured & maintained **KVM, Proxmox, Hyper-V, and VMware ESXi** virtual machines.
- **Windows & Active Directory Administration:**
  - Administered **Windows Server (2016/2019/2022), Group Policy, IAM policies, and Azure AD**.
  - Managed **Active Directory Sites, Services, Trusts, and FSMO roles**.
- **Linux & Open-Source Infrastructure:**
  - Configured **Nagios Core, Icinga2 monitoring**, and resolved server issues.
  - Automated system administration tasks using **PowerShell and Bash scripting**.
- **Database & High-Availability Clusters:**
  - Administered **MariaDB Galera Cluster, MySQL Replication, and HAProxy for load balancing**.
  - Implemented **backup & disaster recovery strategies** for databases and AD services.
- **Networking, Security & Firewall Management:**

- - Managed **pfSense firewall, VLAN-level security, and VPN configurations**.
  - Deployed **forward/reverse proxy configurations (Apache, HAProxy)** for optimized traffic management.

Mercurial Minds, Islamabad

System Admim / Network Support Engineer *(May 2020 – Feb 2022)*

- **System Monitoring & Performance Management:**
  - Utilized **Nagios Core** for real-time monitoring of servers and network performance.
- **Database & Cluster Management:**
  - Troubleshooting **MariaDB Galera Cluster issues**, optimizing database performance and availability.
- **Server & Networking Administration:**
  - Configured **Apache proxy, Proxmox virtualization, and Linux-based services** (Debian, Ubuntu, RHEL).
  - Managed **on-premises networks, including switch configurations and virtual machines**.

EDUCATION

🎓 **Master of Computer Science (MCS) – Northern University, Nowshera** *(March 2013 – September 2015)*
🎓 **Bachelor of Computer Science (BSCS) – University of Peshawar** *(August 2010 – September 2012)*

PROJECTS

Zong/Ufone (Health Insurance, VAT, RSA, HBS, MIS)

- **Infrastructure Setup:** Configured **Linux-based virtual machines** for VAS deployments.
- **Database Management:** Set up **database clustering & replication** for high availability.
- **Security & Networking:** Deployed **firewall rules, VLAN segmentation, and reverse proxy configurations**.

CERTIFICATIONS & TRAINING

- AWS Certified Solutions Architect (In Progress)
- RHCSA – Red Hat Certified System Administrator *(Trained)*
- MariaDB Cluster & High Availability Training(Trained)
- Master API testing using Postman(Certified)
- Ethical Hacking and Cyber Security(Certified)
- CISCO CCNA (Router,Switch)(Certified)

TOOLS & TECHNOLOGIES

- **Cloud & Virtualization:** AWS, Azure, Proxmox, VMware, Hyper-V, KVM
- **Database & Query Management:** MariaDB, MySQL, Galera Cluster, HAProxy
- **Networking & Security:** pfSense, VLANs, VPN, HAProxy, Firewall Management
- **Monitoring & Troubleshooting:** Nagios, Icinga2, Performance Optimization
- **DevOps & Automation:** Jenkins, Docker, Kubernetes, PowerShell, Bash
- **API Testing & Development:** Postman, REST APIs, SOAP APIs
- **Project Management:** Jira, Trello, Agile

WHY HIRE ME?

✔ **Strong Infrastructure & Database Management Expertise** – Hands-on experience with **cloud computing, high-availability clusters, networking, and automation**.
✔ **Proven Troubleshooting Skills** – Expert in diagnosing **server, database, and network issues** for optimal performance.
✔ **Security-Focused Mindset** – Experience in **firewall configurations, IAM, and proactive system monitoring**.
✔ **Collaborative & Agile-Oriented** – Strong background in working with **DevOps teams, cloud providers, and development teams**.