

# KHAWAR BAIG

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## 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.

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## 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

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## PROFESSIONAL EXPERIENCE

### Direct Debit System FZ LLC, Dubai

DevOps & Infrastructure Engineer (August 2024 – Present)

- **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.
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## **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.
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## **Mercurial Minds, Islamabad**

System Admin / 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.
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## **EDUCATION**

🎓 Master of Computer Science (MCS) – Northern University, Nowshera (March 2013 – September 2015)

## 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**.
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## CERTIFICATIONS & TRAINING

- **AWS Certified Solutions Architect (In Progress)**
  - **RHCSA – Red Hat Certified System Administrator (Planned)**
  - **MariaDB Cluster & High Availability Training**
  - **Master API testing using Postman**
  - **CISEthical Hacking and Cyber Security**
  - **CISCO CCNA (R&S)**
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## 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, ITIL Processes
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## 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**.