Carlos Iván Barragán González

Cloud & Infrastructure Engineer · DevOps · SRE

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SUMMARY

Infrastructure engineer with **8+ years** in **Linux**, **virtualization** and **data centers**. Currently focused on **cloud migrations** (VMware, OpenShift, GCP), with junior-level production experience in **Kubernetes**, **Terraform** and **CI/CD with GitHub Actions**.

PROFESSIONAL EXPERIENCE

Cloud & Business Continuity Implementation Engineer (Remote) — Ebunti / DRPMéxico Jan 2025 – Present

- **Migrated 200+ workloads** (P2V, V2V, V2P) for 20+ clients to **VMware vCloud Director**.
- Moved VMs from VMware and Proxmox to **OpenShift Virtualization (SNO)** and **GCP**: disk conversion, **S3** upload and bootable images.
- **API automation** on vCloud Director across 70–80 tenants: resource validation down from **~1 h to ~2 min**, with Power BI reports.
- Operated **Kubernetes**, **OpenShift SNO**, **Ceph** and **Cloudian** clusters: health checks, troubleshooting and maintenance.
- **CI/CD with GitHub Actions** and **IaC with Terraform** for deployments and provisioning.
- Built **multi-tenant vDC** networking on **NSX**: segmentation, routing, firewall, NAT and 10+ site-to-site **IPsec VPNs**.
- **S3 object storage** (Ceph, Cloudian, Wasabi, MinIO): deployment, onboarding and data migration.
- Delivered backup and recovery with **Veeam** (BaaS, DRaaS), including failover tests.

SysAdmin/DevOps/Datacenter (Remote) — Ebunti / DRPMéxico Jan 2022 – Jan 2025

- Ran **Linux (RHEL 7–9, Ubuntu)** and **Windows Server** in production on **vCloud Director**, **ESXi** and **Proxmox**.
- **IaC and automation** with **Terraform** and **Ansible**, plus Bash, Python and PowerShell scripting.
- **CI/CD with GitHub Actions** and service deployments on **Kubernetes**; version control with **Git**.
- **Data center** work: **rack** installs, cabling, out-of-band management (**iDRAC**, **iLO**) and **DCIM/IPAM** docs (NetBox).
- **Monitoring** with **Prometheus**, **Grafana**, Datadog and PRTG.
- Access and security: **Active Directory** and **IPsec VPN** (WatchGuard).
- Troubleshot network, services, storage and OS issues for customers.

Computer Systems Engineer (Per project) — Autotransportes TUFESA Jan 2021 – Jan 2022

- Owned IT infrastructure for branches and **data centers** across 4 states (Jalisco, Nayarit, Colima, Sinaloa).
- Brought up **servers in new branches**: **rack** installation, cabling and configuration.
- Remote server management with **iDRAC** and **iLO**; monthly infrastructure audits.
- **Active Directory**: access and security policies.
- Automated admin tasks with **PowerShell** and **Bash**.

Jr. Test Engineer (Hybrid) — IBM Feb 2019 – Nov 2020

- **IBM Power9** and **Elastic Storage System** (ESS3K, ESS5K) clusters for **high availability** and load balancing.
- **RAID** arrays (0, 1, 5, 6, 50, 60) with IBM Spectrum RAID.
- Scripted **I/O** and hardware stress tests; diagnosed and replaced **disks** and **DIMMs**.
- Out-of-band management via **IPMI** and **CIMC**; node-to-node networking.
- Automated image deployment with **Docker**, **Podman** and **Bash**.
- Managed **RHEL 8**, Fedora and CentOS on physical and virtual hosts.

Test Analyzer (On-Site) — IBM Jan 2018 – Feb 2019

- Configured **IBM Power7/8/9** servers to customer specs.
- Installed **high-speed switches** and server cabling.
- Installed **RHEL 7**, Fedora and CentOS across multiple nodes.
- **I/O**, PCB functional and **HIPOT** electrical tests.
- Automated tests with **Bash** and **Python**.

TECHNICAL SKILLS

Cloud & Virtualization: Google Cloud (GCP), VMware vCloud Director, vCenter, ESXi, NSX, Proxmox, QEMU/KVM, OpenShift Virtualization; basic AWS, Azure and DigitalOcean
Containers & Orchestration: Kubernetes, OpenShift (SNO), Docker, Podman, LXC/LXD
IaC & Automation: Terraform, Ansible, Bash, Python, PowerShell
CI/CD & Version Control: GitHub Actions, Git, GitHub
Monitoring & Observability: Prometheus, Grafana, Datadog, PRTG
AI & LLMs: Claude Code, OpenAI Codex, Google Antigravity, Orca (ADE), Ollama, MCP
Storage: S3 object storage (Ceph, Cloudian, Wasabi, MinIO), NAS (NFS, SMB), SAN (iSCSI, Fibre Channel), IBM Spectrum RAID (0, 1, 5, 6, 10, 50, 60), IBM Elastic Storage System (ESS3K, ESS5K)

Backup & Recovery: Veeam Backup & Replication, Bacula, Duplicati, replication, immutable repositories, DRaaS
Operating Systems: Windows Server (2012, 2016, 2019, 2022), Linux (RHEL 7-9, Ubuntu, SUSE, Fedora, CentOS)
Network Protocols/OSI Model: DNS, HTTP, HTTPS, SSL/TLS, SSH, NTP, DHCP, VPN, SFTP/FTP, LACP, LAG, SMTP, SNMP, LDAP, TELNET, RDP, SMB, NFS, TCP/UDP, IP, ICMP, IPSec, ARP
XDR/EDR and Firewalls: Sophos XDR, Sophos Firewall, pfSense, OPNsense
Web services: Apache, Nginx, SSL Certificates, Proxy/Reverse Proxy, HAProxy, Squid
Databases: MySQL, MongoDB, MSSQL, IBM DB2, MariaDB
Infrastructure Management: Active Directory, IPAM, DCIM, FreeIPA
Hardware & Data Center: Dell, HPE, Cisco UCS and IBM Power (7, 8, 9) servers; out-of-band management (iDRAC, iLO, IPMI, CIMC); rack and cabling; disk and DIMM diagnostics; HIPOT
Work Methodology: DevOps, Scrum, Kanban
Technical Documentation: Infrastructure audits, Configuration and installation manuals, Technical Memories
Services: IaaS, BaaS, DRaaS, SaaS, S3, MSP

PROJECTS

- **Homelab: Proxmox** with a **Kubernetes** cluster, monitored by **Prometheus** and **Grafana**. Lab for GCP, Terraform and OpenShift.
- **This resume as code:** Content in **YAML**, static site with **Astro**, **GitHub Actions CI** and a **Netlify** deploy preview for every PR.

EDUCATION

University of Guadalajara — CUCEI – University Center of Exact and Engineering Sciences 2019 – 2025
B.Eng. in Computer Engineering (graduated)

Proulex — Language Center 2023 – Present
English (B2)

CERTIFICATIONS

RHCE - Red Hat Certified Engineer · RHCE - Red Hat Certified Engineer in Enterprise Linux · RHCE - Red Hat Certified Engineer in Ansible · RHCSA - Red Hat Certified System Administrator · RHCASA - Red Hat Certified Advanced System Administrator in Ansible · VMCE - Veeam Certified Engineer · Broadcom - Kubernetes Fundamentals · Sophos Central Endpoint and Server Protection Certified Engineer v4.0 · Broadcom Partner Certification - Proven Professional - VMware vSphere - Pre-Sales · Designing and Implementing a Microsoft Azure AI Solution · HPE - Artificial Intelligence Essentials · VSP-SV - VMware Sales Professional: Server Virtualization 2021 · VTSP-SV - VMware Technical Solutions Professional: Server Virtualization 2021 · VOP-SE - Subscriptions Expert 2022

IN PROGRESS

Google Cloud Associate Cloud Engineer (ACE) Certification · Terraform – Infrastructure as Code (IaC) · Red Hat OpenShift Certification (EX280) · Cybersecurity practice and CTF solving

ADDITIONAL INFORMATION

Languages: Spanish (native) · English (B2)
Applied AI: Daily use of **AI agents** for infrastructure and automation: **Claude Code**, **OpenAI Codex**, **Google Antigravity** and **Orca** (ADE); local models with **Ollama**; tool integration via **MCP**.