

# Marlon Mejia

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## Skills

- **Tools:** Terraform, Ansible, Docker, Jenkins, AWS CodePipeline, Active Directory, Github Actions
  - **Operating Systems:** Linux, Windows
  - **Programming:** Bash, Python, Powershell
  - **Software:** Jira, Grafana, Splunk, Humio
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## Certifications

- RHCSA - Apr 08, 2022
  - EX200 Red Hat Certified System Administrator - Apr 08, 2022
  - AWS SAA-C03 - March 31, 2023
  - CompTia Security+ - November 02, 2020
  - API Security Architect - Jan 20 2024
  - CompTia A+ - May 22, 2020
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## Bloomberg LP

### Datacenter Operations Engineer

*Nov 2020 - Present 45HRS per Week*

- **Data Center Operations:**
  - Rack and Stack: Installed and configured servers and network equipment.
  - Decommissioning: Managed server and cable removal, data sanitization, and disposal.
- **Issue Diagnosis and Resolution:**
  - Address Layer 1 & 2 connectivity issues across 1000+ servers, switches, routers, and firewalls.
  - Resolve issues across operating systems, including Windows and Linux (Red Hat, Debian) to ensure consistent and reliable functionality.
- **Automation:**
  - Led a project to automate case opening and log gathering across multiple systems by utilizing **REST APIs** and **Python**.
  - Reduced operation time from over 20 minutes to just 30 seconds per task, saving approximately 1690 hours annually.

- **Legacy Modernization:** Contribute to the overhaul of outdated programs and documentation with **Python**, **Bash**, **Git**.
- **Containerization:** Develop over 50 **Dockerfiles** to containerize and facilitate consistent deployment and testing of **Python** and **Bash**.
- **Incident Management:** Utilize **Jira** to plan, track, support tickets, and manage incidents, ensuring efficient resolution.
- **Monitoring and Analysis:** Servers and Network Devices across data-centers, tracking disruptions, resource utilization, and power consumption using **Grafana**, **Splunk**, and **Humio**.
- **Cross-Team Collaboration:** Collaborate across multiple technical teams to deliver Agile-based projects, ensuring seamless communication and coordination across multiple Datacenter sites.
- **Data Center Optimization:** Execute regular audits of data center operations, identifying improvement opportunities and implementing strategies to enhance performance and reduce costs.
- **System Maintenance and Upgrades:** Perform routine maintenance, hardware upgrades, firmware updates, and patch management, to ensure peak system performance.

## NYI - New York Internet

### Datacenter Technician

*Jul 2020 - Nov 2020 45HRS per Week*

- **Customer Support:** Provided remote technical support, including device configuration, troubleshooting, and optimization.
  - **Network Monitoring:** Monitored over 1000 devices using **LogicMonitor**, **ConnectWise**, and **Meraki**. resolved outages and network issues.
  - **Automation:** Automated Google Drive tasks with **Python** scripts using Drive **API**.
  - **Hardware Management:** Installed and organized hardware, performed cabling and tested with Fluke equipment.
  - **Customer Interaction:** Communicated with clients about services and provided performance tips.
  - **Documentation:** Documented server setups and task methodologies for efficient handovers.
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## Side Projects

### CI/CD Project for AWS and GitHub Pages

- **Objective:** Developed a robust CI/CD pipeline to automate the deployment of a static website hosted on AWS.
- **Technologies Used:**

- **AWS Services:** Utilized S3 for object storage, CloudFront for content distribution, and Route 53 for domain and DNS management. Implemented SSL certificates using AWS Certificate Manager for enhanced security.
- **Development:** Created content in Markdown for ease of editing and used **pandoc** to convert Markdown files into multiple formats such as PDF and DOCX.
- **Automation:** Implemented CI/CD pipelines using CodePipeline and GitHub Actions to automate the deployment and testing processes, ensuring seamless updates and multi-format document generation.
- **Outcome:** Achieved a streamlined and automated workflow for static website deployment and maintenance, resulting in increased efficiency and reduced manual intervention.

### Cloud Proxy Server (Flowchart)

- **Objective:** Designed and automated the deployment of secure, scalable cloud infrastructure on Oracle Cloud to expose local resources.
- **Technologies Used:**
  - **Infrastructure as Code:** Automated the provisioning and management of cloud resources on Oracle Cloud with Terraform.
  - **Configuration Management:** Utilized Ansible to automate the setup and configuration of Wireguard VPN and NGINX on the provisioned infrastructure.
  - **Reverse Proxy:** Implemented a reverse proxy to securely route traffic to a Grafana local endpoint and a local website through a Wireguard connection between an OPNsense firewall and the OCI instance.
  - **Security:** Deployed CrowdSec on OPNsense to protect the reverse proxy, enhancing security and mitigating potential threats.
- **Outcome:** Established a robust, automated infrastructure that securely exposed local resources while enhancing performance and security. The solution reduced manual configuration efforts and improved the overall reliability and protection of the hosted services.

### Automated Provisioning with Proxmox, Terraform, and Ansible

- **Objective:** Streamlined the provisioning and configuration of LXC containers and VM instances on Proxmox to enhance infrastructure management and automation.
- **Technologies Used:**
  - **Provisioning:** Utilized Terraform to automate the creation of LXC containers and VM instances on Proxmox, enabling scalable and efficient infrastructure deployment.
  - **Configuration Management:** Applied Ansible for post-provisioning configuration and management, ensuring uniform setup and opera-

tional consistency.

- **Backups:** Set up automated backups using **Kopia**, with infrastructure code securely stored in GitHub for version control and disaster recovery.
- **Outcome:** Achieved a highly automated and efficient infrastructure management process, significantly reducing manual intervention, enhancing configuration consistency, and ensuring reliable backup and recovery.