Marlon Mejia

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Skills

- **Tools**: Terraform, Ansible, Docker, Active Directory
- **CI/CD**: Jenkins, Github Actions, AWS CodePipeline
- **Operating Systems**: Linux (RedHat, Debian), Windows, Unix
- **Programming**: Bash, Python, Powershell
- **Monitoring**: Grafana, Splunk, Humio, Prometheus, Influxdb

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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

Bloomberg LP

Datacenter Operations Engineer

Nov 2020 - Present Fulltime

- **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- **Legacy Modernization**: Contribute to the overhaul of outdated programs and documentation with **Python**, **Bash**, **Git**.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 datacenters, 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 Fulltime

- **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.

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 (Diagram)

- **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.