Marlon Mejia

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Bloomberg LP

Datacenter Operations Engineer *Nov 2020 - July 2024 - 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 by over ***98%***, from more than ***20 minutes to just 30 seconds*** per task.
- **Legacy Modernization**: Contribute to the overhaul of outdated programs and documentation with **Python**, **Bash**, **Git**.
- **Containerization**: Develop **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.
- **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.

Skills

- **Tools**: Docker, Active Directory, Excel, Command Line
- **Infrastructure-as-Code**: Terraform, Ansible
- **CI/CD**: Jenkins, Github Actions, AWS CodePipeline
- **Operating Systems**: Linux (RedHat, Debian), Windows, Unix, iOS
- **Programming**: Bash, Python, Powershell
- **Monitoring**: Grafana, Splunk, Humio, Prometheus, Influxdb
- **Databases**: MariaDB, MySQL, NoSQL
- **Cloud**: AWS, ECS, EC2, VPC, IAM, cloud-init
- **Networking**: IP, TCP, BGP, Server Load Balancers, Firewalls, ACLs, DNS, DHCP, IPAM, LDAP, NFS

Certifications

- 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

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 notifiying of any threats via webhooks.
- **Outcome**: Established a robust, automated infrastructure that securely exposed local resources while enhancing performance and security.

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 operational consistency.
  - **Backups**: Set up automated backups using **Kopia**, with infrastruc-

ture 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.

STIG Compliance Configuration for Rocky Linux 9

- **Objective**: Ensure Rocky Linux 9 adheres to DISA STIG Guidelines for RHEL 9, enhancing system security and compliance.
- **Tools Used**: STIG Viewer, OpenSCAP, oscap, cscc
- **Outcome**: Successfully configured a government-compliant, highly secure operating system.

Killercoda Labs

- **Objective**: Leveraged to create a sandbox environemtn to guide users through step-by-step setups of specific technologies, serving as an interactive learning platform.
- **Outcome**: Created educational hands-on labs leveraging virtualization to support and train emerging tech talent.