Logan Mancuso

Senior Automations Engineer

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B.S. Computer Science — University of South Carolina, Columbia

Experience Summary

Cloud Infrastructure Engineer with over eight years of experience designing, automating, and managing multi-region infrastructure in AWS and Azure. Proven success in leading DevSecOps initiatives, using modern Infrastructure-as-Code practices. Delivering production-ready, high-availability platforms through Kubernetes-based orchestration, and CI/CD.

Technical Skills

Infrastructure as Code & Automation — *Terraform, Packer, Ansible, Chef, Puppet*
CI/CD & DevOps Tooling — *GitLab Pipelines, Helm, GitHub Actions, Azure DevOps*
Containerization & Orchestration — *Kubernetes (EKS, AKS, K3s), Docker Swarm, Podman, LXC/LXD*
Programming & Scripting — *GoLang, Python, Java, Powershell, Bash, C/C++*
Monitoring & Logging — *SumoLogic, Grafana, Open Telemetry, Prometheus, Loki*
Cloud Platforms — *AWS (EC2, VPC, IAM, S3, EKS), Azure (VMs, VNets, AKS)*

Professional Experience

Sr. Automations Engineer — *AWS & Azure Cloud* *Jun 2022 – Present*

Lead architect and maintainer of multi-cloud infrastructure-as-code systems supporting global deployments across AWS and Azure, with an emphasis on resilience, scalability, and automation

- Developed Terraform modules to provision infrastructure across 5 global AWS regions and 3 availability zones, maintaining 99.95% SLA uptime.
- Integrated observability tooling (SumoLogic, Prometheus, Grafana, Loki) into cloud workloads to enable proactive monitoring and alerting.
- Collaborated with security and compliance teams to enforce IAM policies for refined access control.

DevSecOps Engineer — *Azure Government Cloud & Air-Gapped Datacenter* *Sep 2019 - Jun 2022*

Led a team in deploying and maintaining a secure, air-gapped infrastructure for the Oklahoma Real ID system. Designed and implemented robust CI/CD automation, spanning four environments with rolling red & black deployments.

- Managed CI/CD workflows across four isolated environments using Azure Pipelines and Ansible.
- Presented production release plans to the state-level Change Control Board, including risk assessments, rollback strategies, and justification of system changes.
- Collaborated directly with developers and state IT stakeholders to align infrastructure delivery with compliance, identity verification, and security objectives of the Real ID initiative.

Linux Systems Administrator — *High Performance Computing Datacenter* *Mar 2016 - Sep 2019*

Supported AI research initiatives for a 250-node high-performance computing cluster. Balanced resource allocation, physical infrastructure, and networking management for job orchestration and concurrency.

- Allocated GPU (CUDA) resources across research workloads; implemented SLURM queues for fine-grained scheduling of compute-intensive jobs.
- Maintained Fibre Channel storage network supporting high-throughput access to training datasets.
- Deployed Canonical MAAS (Metal-as-a-Service) to automate provisioning of bare-metal Linux nodes across the cluster.

About Me

I am a homelab enthuseist, exploring first principals, in datacenter design, to better deploy container workloads at home. My most recent project manages a three node proxmox cluster with telemety collection, and logging of self-hosted applications.