

Vijay T. Manickam

Phone: (202) 570-4301

Address: 14052 Gared Drive, Glenwood, MD 21738

Email: vijay@emvsys.com

LinkedIn: [linkedin.com/in/vijaym](https://www.linkedin.com/in/vijaym)

Clearance: Active MBI | Eligible for and willing to be processed for Secret / TS

Citizenship: U.S. Citizen

Professional Summary

DevOps / Cloud Engineer and Senior DevSecOps Technical Lead with 20+ years designing, automating, and optimizing secure infrastructure for mission-critical federal programs in highly regulated environments. Deep hands-on with Infrastructure as Code (Terraform, Ansible), container orchestration (Kubernetes, OpenShift, Docker), CI/CD (Jenkins, GitLab CI/CD, GitHub Actions), and strong Linux systems administration. Experienced across AWS, Azure, and GCP. PMP-certified, active MBI clearance, and Secret-eligible.

Technical Expertise

Category	Skills
Cloud Platforms	AWS, Azure, GCP
Infrastructure as Code	Terraform, Ansible, Cloud-init
Containers & Orchestration	Kubernetes, Red Hat OpenShift, Docker, Helm, Service Mesh
CI/CD & Automation	Jenkins, GitLab CI/CD, GitHub Actions, Git, pipeline templates, ServiceNow integration
Linux Systems Administration	RHEL, Debian, Ubuntu; OS upgrade planning & implementation, troubleshooting, hardening
Scripting	Python, Bash, PowerShell, Groovy, YAML, JSON
Security & Compliance	AppScan (SAST/DAST), Nexus IQ,

	SonarQube, Qualys, TLS/SSL, PKI, OAuth/SAML, security automation
Monitoring & Observability	Prometheus, Grafana, Splunk, AppDynamics, Jaeger
Databases	PostgreSQL, Oracle, NoSQL
Tooling	GitLab, GitHub, Maven, NPM, Nexus Repository, SSH, VS Code

Professional Experience

AptNexus LLC | Washington, DC

Senior DevSecOps / Cloud Technical Lead: | October 2023 – Present

- Lead secure infrastructure delivery for the IRS Enterprise Digital Notices (END) system, engineering a containerized COTS platform on Red Hat OpenShift with identity management, document generation, and PostgreSQL.
- Design, deploy, and maintain infrastructure with Infrastructure as Code, provisioning and configuring compute, storage, and network resources in a highly regulated federal environment.
- Developed a proof-of-concept migrating Jenkins pipelines to GitHub Actions, evaluating cloud-native CI/CD modernization.
- Executed a controlled, zero-downtime production cutover ahead of a December 2025 legacy retirement deadline.

Senior DevSecOps Engineer: | April 2022 – October 2023

- Orchestrated end-to-end CI/CD delivery pipelines for the IRS DISM project office, automating deployment for hundreds of enterprise projects.
- Led large-scale Linux OS upgrade and modernization, migrating hundreds of projects from RHEL6 to RHEL7 with zero-downtime operations.
- Standardized CI/CD with Infrastructure as Code using Jenkins pipeline templates and Ansible automation integrated with ServiceNow.
- Integrated security automation (SonarQube, Nexus IQ, AppScan SAST/DAST, Qualys) into CI/CD, enabling shift-left DevSecOps in a secure environment.

JSL Inc | Washington, DC

Senior DevSecOps Consultant: | January 2019 – April 2022

- Architected DevOps transformation for the IRS Return Review Program (RRP), a mission-critical fraud detection system.
- Automated software delivery and led Agile DevOps implementation with continuous integration and deployment.
- Modernized legacy configuration management with CI/CD best practices.

Senior Configuration Management Consultant: | July 2014 – December 2018

- Led enterprise solution architecture and gap analysis for the IRS ACA CDR program.
- Implemented automated deployment and CI/CD for mission-critical tax processing systems.
- Modernized Java build processes, migrating projects from ANT to Maven.

Homelab / Continuous AWS & Kubernetes Practice

- Operate a multi-node Proxmox lab running Kubernetes and k3s clusters provisioned end-to-end with Terraform and Ansible.
- Practice AWS resource provisioning (compute, networking, IAM, container workloads), GitOps with ArgoCD, and Helm-based deployments.
- Maintain Prometheus/Grafana observability and Linux administration across the environment.

Earlier Experience (1996 – 2014)

Senior architect and technical lead roles delivering configuration management, CI/CD, and solution architecture for federal and enterprise clients including the U.S. Census Bureau (DADS), Department of Education (EDCAPS), HHS (HIGLAS), Boeing Defense Systems, and IRS CADE2 — consistently achieving CMMI Level 3 / SEI Level 3 compliance.

Education & Certifications

- B.S., Computer Science and Mathematics | McMaster University, Hamilton, Canada
- PMP — Project Management Professional

Key Qualifications Alignment

Enzo Tech Requirement	Vijay's Match
Terraform + IaC automation	Terraform + Ansible, enterprise +

	continuous practice
Kubernetes + Docker	Kubernetes, OpenShift (prod), Docker, Helm
CI/CD (Jenkins or GitLab CI/CD)	Jenkins (hundreds of projects), GitLab CI/CD, GitHub Actions
Strong Linux systems administration	RHEL/Debian/Ubuntu; RHEL6→7 migration, OS upgrade planning
Secure / regulated environment	20+ yrs federal (IRS, Census, HHS, Dept of Education)
AWS (EC2, EKS, ECS, IAM, VPC, CloudFormation)	AWS provisioning + container workloads (homelab + skill); Terraform for IaC
Active Secret clearance	Active MBI; U.S. Citizen; eligible and willing to be processed for Secret