

TOMAS CRUZ

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PROFESSIONAL SUMMARY

Cloud Engineer with 10+ years of expertise architecting secure, automated, and cost-optimized infrastructure on AWS and Azure. Proven leader in designing and implementing strategic solutions including large-scale cloud migrations, Infrastructure-as-Code (IaC) platforms, and event-driven automation systems. Combines deep technical proficiency in Terraform, Python, and serverless technologies with a track record of enhancing operational efficiency, ensuring compliance, and reducing cloud spend across regulated environments like AWS GovCloud

CERTIFICATIONS

AWS Certifications:

- Cloud Practitioner, Solutions Architect – Associate & Professional, Developer Associate, SysOps Administrator Associate, Security – Specialty, AI Practitioner

HashiCorp:

- Terraform Associate

Microsoft Azure:

- Azure Fundamentals (AZ-900), Azure Administrator Associate (AZ-104), Azure Developer Associate (AZ-204)

TECHNICAL SKILLS

- **Cloud Platforms:** AWS (GovCloud & Commercial), Microsoft Azure
- **Infrastructure-as-Code & Automation:** Terraform, CloudFormation, AWS CDK, Ansible, AWS CLI, Azure CLI, Boto3
- **Scripting Languages:** Python, Bash, PowerShell
- **DevOps & CI/CD:** GitHub Actions, GitLab CI, AWS CodeDeploy, Azure DevOps, Git, Bitbucket
- **Monitoring, Security & Logging:** CloudWatch, CloudTrail, Azure Monitor, Log Analytics, Splunk, Dynatrace, Wiz, Delinea
- **Virtualization:** VMware vSphere, Citrix
- **Operating Systems:** Amazon Linux, Red Hat Enterprise Linux (RHEL), Windows Server (2012-2022)
- **AWS Services:** EC2, VPC, S3, Route53, Lambda, RDS, DynamoDB, CloudFront, IAM, SNS, SQS, API Gateway, Systems Manager, EventBridge, Security Hub, ECS, ELB/ALB
- **Azure Services:** Azure AD (Entra ID), Virtual Machines, App Registrations, Load Balancers, VNets, Resource Groups, Storage Accounts, Azure Functions, Event Hubs, Service Bus, Subscription Management
- **Project Management Tools:** Jira, ServiceNow, Azure DevOps

CORE COMPETENCIES

- Cloud Infrastructure Architecture (AWS & Azure)
- Infrastructure-as-Code (Terraform, CloudFormation, CDK)
- DevOps Automation & CI/CD Pipelines
- Cloud Security, Compliance & Cost Optimization
- Serverless & Event-Driven Architecture

- Hybrid & Multi-Cloud Integration
- Cloud Migration & Modernization

PROFESSIONAL EXPERIENCE

Sr. Cloud Engineer

Smartronix (SMX) | Remote | February 2022 – Present

- Architect, maintain and deploy automation pipelines using Terraform, Python, Lambda, and EventBridge to enhance cloud security posture, compliance monitoring, and operational efficiency for the **State of Massachusetts Medicaid Management Information System (MMIS)**
- Implemented Dynatrace monitoring and create custom dashboards for the **State of Massachusetts Medicaid Management Information System (MMIS)** and **MassHealth Provider Online Service Center (POSC)**, configuring AWS integrations (EC2, S3, EFS), Control-M extension for batch jobs, and developing custom DQL dashboards to visualize infrastructure health, while managing two EC2-based ActiveGates for metric collection and extension deployment
- Develop serverless applications processing GitHub Dependabot alerts and AWS Security Hub findings, automatically creating Jira tickets and tracking remediation status through DynamoDB for complete audit trails for the **State of Massachusetts Paid Family and Medical Leave (PFML)**
- Design and implement end-to-end VM provisioning automation workflow leveraging Terraform, VMware vSphere, Python, and Ansible for dynamic deployment from templates based on user-defined parameters for **State of Massachusetts Trial Courts (MATC)**
- Create reusable Bash utilities and Python scripts to streamline resource provisioning, configuration management, and environment cleanup across development, test, and production landscapes for **State of Massachusetts Paid Family and Medical Leave (PFML)**
- Engineered for the **State of Massachusetts Trial Courts (MATC)** a hybrid Windows Certificate Authority and AWS infrastructure automation using PowerShell Task Scheduler, S3, CloudFront, and IAM to automatically synchronize and distribute Certificate Revocation Lists from on-premises CA servers

Lead Cloud Engineer

Huntington Ingalls Industries (HII - Mission Technologies) / Alion Science | Remote | February 2021 – February 2022

- Orchestrated migration of legacy systems including Koha library platform to AWS cloud infrastructure using EC2 instances with RDS MySQL backend and cloudformation ensuring zero data loss and minimal service disruption for US Army Pacific (**USARPAC(Hawaii)**)
- Delivered significant cost optimization through Lambda-based EC2 and RDS scheduling automation using Python and Boto3, implementing intelligent startup scripts that reduced non-production infrastructure costs by 40%
- Designed and implemented an Infrastructure-as-Code (IaC) pipeline to automate the provisioning of secure AWS GovCloud tenant environments. This solution ensured compliance, accelerated deployment cycles, and provided consistent infrastructure management for **AFSOC** missions
- Developed automated cost reporting solution using Python and Boto3 Cost and Usage Report (CUR) API, delivering formatted financial summaries to Teams collaboration channels for management budget tracking and forecasting for the **CMS project (Countermeasures, Risk Analysis Products and Services)**
- Architected and automated a cross-region synchronization system to maintain service discovery for ECS-based APIs. The solution automatically detected new load balancer endpoints in GovCloud and updated corresponding Route53 records in the Commercial region, ensuring zero-downtime deployments and seamless user access in a segmented cloud architecture for the **CMS project (Countermeasures, Risk Analysis Products and Services)**

Cloud Operations Engineer III

DXC Technology | Remote | *March 2018 – March 2021*

- Provided comprehensive day-to-day AWS and Azure infrastructure support for several state Medicaid programs such as **Mississippi MMIS, Virginia Vaxix, Maine OMS, VT**, managing their mission-critical healthcare applications and services
- Managed complex cloud networking including VPCs, VNets, subnets, route tables, Elastic Load Balancers, security groups, and network ACLs across multi-region AWS and Azure deployments
- Delivered Infrastructure-as-Code solutions using both Terraform and CloudFormation, enabling consistent, repeatable, and version-controlled infrastructure deployments
- Administered Azure Active Directory including user provisioning, group management, conditional access policies, and IAM configurations for secure access control
- Performed advanced log analysis and configured comprehensive alerting through CloudWatch, CloudTrail, and Azure Log Analytics to proactively identify and resolve infrastructure issues

Platform Engineer II

Cox Automotive Inc./Dealertrack/Autotitle Express | Metairie, LA | *March 2012 – March 2018*

- Managed enterprise VMware vSphere virtualization environment hosting 300+ Windows Server and Linux virtual machines across development, test, staging, and production environments
- Contribute in AWS cloud migration initiative utilizing AWS Server Migration Service to migrate on-premises workloads to EC2, planning and executing phased migrations minimizing business disruption
- Deployed Ansible for enterprise-wide configuration management and automated patching across both Windows and Linux server fleets, reducing manual effort by 60% while improving compliance
- Integrated Splunk Cloud for centralized logging and analytics, creating custom dashboards, alerts, and reports for comprehensive infrastructure monitoring and troubleshooting

EDUCATION

Bachelor of Science – Computer Systems Technology

Tulane University, New Orleans, Louisiana | Graduated: May 2012

PROJECT HIGHLIGHTS

- **Serverless Security & Compliance Automation:** Engineered event-driven pipelines (APIGateway/Lambda/EventBridge) to auto-process GitHub Dependabot & AWS Security Hub findings into Jira tickets with DynamoDB audit trails, ensuring continuous compliance for **State of Massachusetts Paid Family and Medical Leave (PFML)**
- **Cross-Region Service Discovery for Containerized APIs:** Automated DNS synchronization (Route53) between AWS GovCloud (ECS/ALB) and Commercial regions via Lambda, guaranteeing zero-downtime deployments and seamless access in a segmented architecture (**CMS**)
- **Legacy Application Cloud Migration:** Orchestrated the complete lift-and-shift migration of the Koha library system to AWS (EC2/RDS) using Infrastructure-as-Code (CloudFormation), achieving zero data loss and minimal disruption (**USARPAC**)

- **Secure Multi-Tenant GovCloud Platform:** Led the design of an IaC pipeline (CloudFormation) for provisioning compliant AWS GovCloud tenant environments for **AFSOC**, standardizing and accelerating secure infrastructure deployment
- **Cloud Cost Optimization Engine:** Developed Lambda-based scheduling automation for non-production EC2/RDS resources, reducing associated costs by 40% for **AFSOC Suasman, Cats** and **CAP** programs
- **Full-Stack VM Provisioning Automation:** Created an end-to-end IaC workflow using Terraform, vSphere, Python, and Ansible to dynamically provision and configure VMs from templates based on user parameters for the **State of Massachusetts Trial Courts (MATC)**
- **Hybrid Cloud Certificate Authority Sync:** Engineered for **State of Massachusetts Trial Courts (MATC)** automation (PowerShell/S3/CloudFront) to synchronize and distribute Certificate Revocation Lists (CRLs) from on-premises Windows CA to hybrid AWS infrastructure
- **AI-Driven Network Provisioning Chatbot:** Designed and deployed a serverless AI bot integrated with Microsoft Teams using Amazon Q Developer and AWS serverless services (Lambda, Secrets Manager). The solution allows engineering teams to query Infoblox IPAM APIs to dynamically allocate and manage CIDR ranges for AWS environments across multiple regions. Infrastructure and deployment pipelines were automated using Terraform, enabling secure credential management, automated provisioning workflows, and improved operational efficiency for network address management.