KODY BAKER

ALEXANDRIA, VA | P: 4109997996 | Kody.Bkr@gmail.com (Clearable)

EDUCATION

FROSTBURG STATE UNIVERSITY   Frostburg , MD
Bachelor of Science   Aug 2018 - April 2022
Major in Information Technology; Minors in Secure Computing
Distinct Honors Cum Laude ; Dean's List 2018-2022
Relevant Coursework: Data Analysis, Algorithms, Operating Systems, Python, ,Network Segmentation & Security

NORTHUMBRIA SCHOOL OF LAW   NorthUmbria Upon Tyne, UK
Study Abroad Program in International Law Program   Jul 2022 - Jan 2023
Honorable Mentions: University of the year 2022 , Awarded Full CIE Rowe Scholarship

TECHNICAL SKILLS

Cloud Platforms: AWS, Azure, GCP
Infrastructure as Code (IaC): Terraform, Terragrunt, Ansible
Containerization & Orchestration: Kubernetes (EKS, AKS, GKE), Docker
DevOps Tools: GitLab + Runner,, Prometheus, Grafana, Loki, Splunk, Elastic Stack , Hashicorp Packer
Security & Compliance: FedRAMP, NIST, Trend Micro DSM, Nessus, Hashicorp Vault , Burp Suite, Aqua Security.
Programming/Scripting: Python, Bash
Networking: TCP/IP, OSI Model, VPC, VPN, DNS, HTTP/HTTPS, Load Balancing

PROFESSIONAL EXPERIENCE

IDEASCALE. (Crowd Sourcing B2B SaaS Company)   Remote
Site Reliability Engineer   April 2023 – June 2024

- Operated within the systems operations team, managing and maintaining Kubernetes (EKS) clusters, ensuring high availability, deploying application updates, troubleshooting failures, and optimizing infrastructure performance.
- Built observability pipelines with Prometheus, Grafana, and Loki, utilizing metrics and dashboards to visualize system health.
- Administered, optimized, and secured Debian based Linux systems, performing advanced configurations, troubleshooting, and ensuring system availability and compliance with operational requirements.
- Optimized CI/CD pipelines for Golang microservices on AWS EKS, leveraging GitHub Actions runners to automate weekly builds, testing, and deployments with Docker, Helm, and Terraform for seamless cloud-native integration.
- Participated in a 24/7/365 on call to ensure constant uptime and adhere to SLAs across six regions and thousands of global users.

COALFIRE (Industry Leading Cyber Security Advisory Firm)   Remote
Cloud Security Infrastructure Engineer   Jun 2024 – Present

- Spearheaded FedRAMP certification initiatives for enterprise SaaS clients, ensuring compliance with NIST 800-53 controls and ATO requirements.
- Designed and deployed multi-cloud architectures (AWS, Azure, GCP) aligned with Zero Trust principles, integrating SecOps tools (Trend Micro, Tenable suite) for threat detection and vulnerability management.
- Engineered CI/CD pipelines with GitLab runners and DevSecOps practices.
- Drafted and maintained Terraform code for multi-cloud infrastructure provisioning, implementing reusable modules to standardize deployments across projects.
- Administered and monitored cloud-based systems, ensuring high availability, performance, and security compliance.
- Contributed to repository management by building and refining Terraform modules, creating standardized configurations for networking, security groups, and logging integrations.
- Built and automated infrastructure provisioning using Packer to create optimized AMI images, leveraging Bash and Ansible for configuration, hardening, and deployment, ensuring consistency and scalability across cloud environments.

PROFESSIONAL PROJECTS

Kubernetes Migration Initiative
Amazon Web Services   May 2023 – Nov 2023

- Migrated Dockerized microservices to Kubernetes, leveraging Istio for secure pod-to-pod communication and Fargate to implement more intelligent scaling , resulting in the reduction of operational overhead by 15%.
- Deployed Terraform modules for EKS provisioning, enabling consistent multi-regional (US/DE/CA/GOV) deployments with Terragrunt.
- Implemented a meticulous blue-green deployment strategy to migrate a legacy Docker-based architecture to Amazon EKS, ensuring a seamless transition without any downtime.
- Crafted and Utilized Granfana dashboards to monitor and inspect system health and latency.

FedRAMP HIGH & DoD IL5 CSP Reference Architecture (RADD)

Amazon Web Services & Microsoft Azure   July 2024 – Aug 2024
- Designed a DoD Impact Level 5 (IL5)-compliant multi cloud architecture, integrating Azure's Government Cloud and AWS GovCloud with secure interconnects, encrypted VPN gateways, and boundary protection aligned with NIST 800-53 and FedRAMP High controls.
- Implemented Azure best practices for IAM and Microsoft Entra, designing and architecting Zero Trust frameworks with Conditional Access controls and YubiKey-based authentication for enhanced security.
- Configured Azure Sentinel , Defender and log analytics for cloud native SIEM and Insights for APM monitoring.
- Led weekly cross-functional engineering syncs, using SCRUM framework to guide the progress of the project.
- Collaborated with Cross functional teams and various department level stakeholders on design choices, project resourcing and potential project blockers.

GCP Cloud Native Architecture Design & Build

Google Cloud Platform   Oct 2024 – Dec 2024
- Conducted a comprehensive gap analysis for a financial services Cloud Service Provider (CSP) targeting federal government contracts, identifying 15+ security and architectural deficiencies in their existing commercial offering against FedRAMP High and FIPS 140-2 compliance requirements.
- Designed a reference architecture using GCP-native services, including Google Kubernetes Engine (GKE), and Cloud Identity-Aware Proxy (IAP), to modernize the CSP's containerized control plane while adhering to Google's Architecture Framework best practices.
- Developed and deployed Terraform infrastructure to provision resources across the management plane, implementing Google Chronicle SIEM & SOAR for centralized log ingestion, threat detection, and automated incident response.

ADDITIONAL

- HashiCorp Certified: Terraform Associate (003)
- Azure Networking Engineer Associate (Sitting Feb, 19th)
- AWS Certified Advanced Networking Specialty (In Progress)