

Abhijit Thakur

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PROFESSIONAL SUMMARY

Senior DevSecOps and Cloud Security Engineer with 8+ years at IBM Cloud, embedding security into CI/CD pipelines, hardening container platforms, and automating compliance across production infrastructure. Owned pipeline security and audit certification (SOC 2, HIPAA, PCI-DSS, ISO 27001, FedRAMP) for a PaaS platform spanning 20+ OpenShift clusters and 5,500+ nodes. Background combines hands-on DevSecOps engineering (SAST/DAST integration, container hardening, policy-as-code, infrastructure automation) with security operations at scale (EDR/SIEM, incident response, CIS benchmarks). Built agentic AI automation (IBM BOB) to streamline recurring security and compliance workflows.

CORE COMPETENCIES

DevSecOps and Pipeline Security: CI/CD hardening (Terraform, Travis CI, Tekton), SAST (SonarQube, Mend, Contrast), DAST (OWASP ZAP), dependency scanning, secure build processes, supply chain security, GitOps workflows

Container and Cloud Security: OpenShift, Kubernetes, Istio service mesh, mTLS, RBAC, namespace isolation, pod security (SCCs), container image scanning, IBM Cloud (Public/Hybrid), AWS, Azure

Security Operations and Tooling: CrowdStrike EDR, Uptycs EDR, QRadar SIEM, Sysdig, CIS Benchmarks, incident response, runbook development, on-call operations

Automation and Observability: Python, Bash, Terraform, PromQL, Sysdig dashboards, IBM BOB (agentic AI automation), IBM Endpoint Manager

Identity and Access Management: SAML, OAuth 2.0, OIDC, SSO, RBAC, TLS 1.2, SSL certificate lifecycle, PingFederate

Compliance Frameworks: SOC 2, HIPAA, PCI-DSS, ISO 27001, FFIEC, HiTrust, FedRAMP, GDPR/CCPA

WORK EXPERIENCE

IBM Cloud

Sep 2016 – Present

Senior DevSecOps / Cloud Security Engineer, IBM Cloud Observability & Cloud Foundry Austin, TX

- Hardened CI/CD pipelines using Terraform and Travis/Tekton: integrated SAST (SonarQube, Mend, Contrast) and DAST (OWASP ZAP) scanning into every build stage, automated deployment validation with policy enforcement, and implemented rollback mechanisms to reduce configuration drift and manual intervention.
- Secured a microservices platform across 20+ OpenShift clusters and 5,500+ nodes running Istio service mesh, enforcing mTLS, RBAC policies, namespace isolation, and pod security via Security Context Constraints (SCCs). Platform supported 1M+ log lines/hour at 99% uptime SLA.
- Managed dependency scanning and secure build processes across CI/CD pipelines, hardening the software supply chain by enforcing artifact integrity checks and vulnerability remediation before production deployment.
- Deployed and administered CrowdStrike and Uptycs EDR across 5,500+ nodes; built QRadar SIEM dashboards, correlation rules, and alert triage workflows for real-time threat detection and response.
- Built and maintained on-call incident response rotation for 2+ years: authored runbooks from scratch for Kafka and OpenSearch clusters on OpenShift, resolving 90% of Sev1 incidents within SLA across 20+ enterprise clients.
- Developed Python and Bash automation to enforce CIS benchmarks, address server hardening gaps, and automate OS patching for ~3,000 servers via IBM Endpoint Manager, reducing manual patching effort by 90%.
- Applied IBM BOB agentic AI to automate recurring security and compliance workflows, cutting task throughput time by 30% and ensuring timely closure of compliance actions across audit cycles.
- Led audit certifications (SOC 2, HIPAA, PCI-DSS, ISO 27001, FFIEC, HiTrust, GDPR) achieving 100% compliance across IBM Public Cloud PaaS; served as primary security liaison with auditors and cross-functional engineering teams.

- Built Sysdig monitoring dashboards and PromQL-based observability tooling to detect performance anomalies and assess deployment success rates at scale.

FedEx Services

Jan 2013 – Sep 2016

Technical Analyst, Identity and Access Management

Memphis, TN

- Led enterprise-wide Web SSO implementation using Oracle Access Manager (OAM) with SAML, OAuth 2.0, and OIDC protocols via PingFederate, enabling secure authentication across 100+ internal and external applications.
- Managed and upgraded PingFederate to support high-volume authentication for 50+ vendor integrations; enforced SHA-2/TLS 1.2 security standards across all enterprise applications.
- Managed SSL certificate lifecycle for Apache, WebLogic, and PingFederate servers; reduced unplanned downtime across critical authentication services.
- Developed automation scripts for log management and resource optimization, reducing manual operational overhead.

PROJECTS

ComplianceGuard – AI-Powered Policy-as-Code Compliance Agent

- Designed and built an agentic AI system using Anthropic Claude API and Python that performs automated compliance drift detection against declarative YAML policy baselines, queries live Docker container state, classifies violations, and generates cryptographically signed audit reports with AI-driven remediation recommendations.

Personal Dietician – AI-Powered Nutrition and Meal Planning Platform

- Built a full-stack, self-hosted nutrition management application using Python (FastAPI, APScheduler, SQLite) with a vanilla JavaScript frontend, integrating Claude Sonnet API for AI meal planning, computer vision food logging (fridge inventory detection, receipt scanning, plate photo macro estimation), and workout-aware scheduling with real-time push notifications via ntfy across two user profiles.

EDUCATION

University of Memphis – Master of Science, Computer Science 2011 – 2012 | *Memphis, TN*

University of Pune, India – Bachelor of Engineering, Computer Science 2005 – 2008 | *Pune, India*

CERTIFICATIONS

- IBM Cloud Security Focal Badge (IBM)
- Certified DevSecOps Professional (CDP), Practical DevSecOps – In Progress