NICHOLAS WOLK

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> *"Optimizing System Performance & Establishing Seamless Production Environments using IT Proficiencies."*

Senior Cloud & DevOps Engineer with 10+ years of progressive experience designing, securing, and automating cloud infrastructures in enterprise environments. Proven record of leading large-scale AWS migrations, building resilient CI/CD pipelines, and implementing security-first solutions aligned with compliance standards (CIS, NIST, FedRAMP). Adept at mentoring engineers, reducing operational toil through automation, and driving measurable improvements in system reliability, cost efficiency, and compliance readiness. Recognized for quickly mastering new technologies and proactively expanding expertise—recently advancing skills in Airflow orchestration, containerization with Docker, and modern cloud-native practices. Trusted as both a hands-on engineer and a collaborative leader who thrives on solving complex problems while continuously learning and evolving to meet emerging challenges.

CORE COMPETENCIES

Cloud Infrastructure Management - AWS Multi-Account, Multi-Environment
Identity & Access Management (IAM) - Role-based access, policy design, secrets management
Security & Compliance - IAM, FedRAMP, NIST, CIS Benchmarks, SOC Audit Support, Vulnerability Management
Operational Leadership - Incident response, monitoring, logging, operational excellence
Systems Administration (Windows & Linux) - Hardening, GPO, Active Directory, automation
Infrastructure-as-Code - CloudFormation, Terraform, Ansible, Python, Bash, PowerShell, Jinja
CI/CD Pipeline Development - Bamboo, Bitbucket, Git
Automation & Orchestration - Airflow, Lambda, scripting
Containers & Serverless - Docker, AWS Lambda
Collaboration & Cross-Team Leadership - Mentoring engineers, compliance/security partnership, cross-functional initiatives
Agile Delivery & Collaboration - JIRA, Scrum practices, cross-functional coordination

TECHNICAL SKILLS

Cloud: AWS (EC2, S3, RDS, Lambda, Route 53, CloudWatch, IAM, KMS, SNS/SQS)
IaC & Automation: AWS CloudFormation, Terraform, Ansible, Python, PowerShell, Bash, Jinja
Monitoring & Observability: Grafana, Splunk, AWS CloudWatch
DevOps Tooling: Bamboo, Bitbucket, Git, Artifactory, CyberArk, JIRA
Security: IAM, PKI, SSL/TLS, Secrets Management, Vulnerability Scanning (Black Duck, Fortify)
OS & Systems: Windows Server (GPO, Hardening, Patching), Linux (RHEL, Ubuntu), Active Directory

EDUCATION

Bachelor of Science in Business Administration (BSBA), Specialization: Management Information Systems

Bloomsburg University | Bloomsburg, PA

- **Activities:** Bloomsburg University Club Member - Association of Information Technology Professionals

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

KubeCon + CloudNativeCon - Professional development in containerized and cloud-native practices	**2023**
Astronomer Certification DAG Authoring for Apache Airflow, Astronomer	**2023**
Astronomer Certification for Apache Airflow Fundamentals, Astronomer	**2022**
AWS Certified Solutions Architect - Associate Certification, Amazon Web Services (AWS)	**2021**

Actively pursuing advanced cloud and security certifications to deepen expertise and expand skillset.

PROFESSIONAL EXPERIENCE

ScreenHero ✦ Remote

Lead Full Stack Mobile Developer   **2024 - Present**
- Designed and delivered a cloud-integrated mobile application leveraging Firebase for authentication and secure data storage.
- Implemented CI/CD best practices for app deployment, ensuring reliable releases and rapid issue remediation.
- Drove scalability and resiliency improvements by building modular, secure, and cloud-native architecture.

Macquarie Group ✦ Philadelphia, PA

Cloud Infrastructure/Solutions Engineer   **2018 - 2023**
- Leveraged CloudFormation, Terraform, and Ansible to provision and configure cloud and hybrid environments, ensuring consistent and repeatable deployments.
- Automated builds, testing, and releases with Bamboo CI/CD pipelines, **reducing deployment time by 60%**.
- Directed cross-functional engineering initiatives to improve governance across multi-account, multi-environment AWS infrastructures.
- Migrated legacy on-premises Sitecore infrastructure to AWS (EC2, S3, RDS, CloudFront), **cutting operational costs by 25%.**
- Implemented real-time monitoring dashboards (Grafana, Splunk, CloudWatch), **improving SLA adherence by 35%.**
- Designed automated failover and alerting systems to increase resiliency for critical financial applications.
- Led patch management and vulnerability remediation strategies across Windows and Linux environments, ensuring alignment with FedRAMP, CIS, and NIST controls.
- Mentored junior engineers by reviewing work, establishing engineering standards, and conducting training sessions, **reducing onboarding time by 40%.**
- Collaborated with compliance and security teams to align infrastructure designs with regulatory frameworks and mitigate operational risks.
- Authored technical documentation and architecture diagrams in Confluence and Visio, and presented solutions to technical and business stakeholders to drive alignment and understanding.
- Piloted and evaluated new automation and monitoring tools to modernize cloud environments and enhance resiliency.

DevOps Engineer   **2016 - 2018**
- **Reduced manual provisioning time by 80%** using AWS CloudFormation templates and automation scripts.
- **Eliminated 200+ hours** of annual toil by converting legacy AutoSys batch jobs to Apache Airflow with alerting/monitoring.
- **Improved build quality by 30%** with automated testing and validation scripts integrated into CI/CD pipelines.
- Assisted auditors during SOC audits, providing technical evidence, access reviews, and remediation documentation to demonstrate compliance with security frameworks and ensure audit readiness.
- Enhanced patch management efficiency by scripting CRON-based updates and compliance checks across hybrid Windows/Linux environments.
- Took ownership of patching cycles and incident remediation workflows across hybrid environments.
- Applied Infrastructure-as-Code practices with CloudFormation, Terraform, and Ansible to expand automation strategies across hybrid environments.
- Facilitated patch management strategy by coordinating scanning, prioritization, and remediation of vulnerabilities across Windows and Linux servers.
- Enhanced operational support and incident response readiness by developing automated monitoring and escalation processes that reduced downtime.

System Support Analyst   **2010 - 2016**
- Supported 5,000+ end users across Windows and Linux systems, **maintaining 99.9% uptime.**
- **Cut incident resolution time by 50%** through automated AD account provisioning and streamlined escalation workflows.
- Managed disaster recovery drills and compliance monitoring for Active Directory and critical financial systems. Led incident response coordination with cross-team stakeholders to ensure rapid recovery and lessons-learned integration.
- Monitored compliance for regulated financial environments, ensuring audit-readiness through consistent patching and remediation practices.
- Administered GPOs and performed system hardening to strengthen security baselines across Windows environments.

Lincoln Financial Group ◆ Philadelphia, PA

System Support Analyst   **2007 – 2010**

- Supported enterprise systems, Citrix, and financial applications while administering user accounts and network services.