ANDREAS MERTEN

DEVOPS / PLATFORM TEST ENGINEER

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Expertise / Skills

- Cloud Platforms: AWS, Azure, GCP
- Containerization & Orchestration: Kubernetes, OpenShift, Docker, Podman
- CI/CD & Automation: Jenkins, GitLab CI, GitHub Actions, Python3, Shell Scripting
- Infrastructure as Code: Terraform, Ansible
- Monitoring & Observability: Prometheus, Grafana, ELK Stack
- Security: TLS Certificate & Secret Management,
- Blue-Green Deployments, Security-by-Design
- Systems & Networking: Linux, Windows Server
- Firewalls, DNS
- Identity & Access Management: Okta, JumpCloud, Authentik, Keycloak, ADFS, Microsoft Entra ID
- API Testing & Validation: Postman
- Collaboration & Version Control: Git, GitHub, Jira,
- Confluence, MS Outlook, Teams, Slack
- Agile & DevOps Methodologies

Open Source Contributions

Infoset-ng
Contributor
August 2017 – Feb 2018
- Performed Unit Testing, Debugging and Technical Documentation.
- Contributed to the development of an all-purpose data gathering application.
- Collaborated in the design infrastructure and deployment of MySQL based back-end.
- Implemented database connection pooling to reduce the load on the database server when experiencing high transaction volumes.
- Assisted with the set up and maintenance of the organization's network agents

PROFESSIONAL SUMMARY

I am an accomplished DevOps and Platform Test Engineer with over seven years of experience deploying, testing, and maintaining robust on-premises and cloud-based applications. I have contributed to seamless migrations of legacy systems, automated infrastructure tasks, and improved operational efficiency through Kubernetes, Docker, and Python scripting. My experience includes developing CI/CD pipelines and managing cloud infrastructure across AWS, Azure, and GCP.

I have practical experience implementing Blue-Green deployment strategies to support seamless releases and minimize downtime. Additionally, I have extensive experience in TLS certificate management, as well as secret management and rotation. I focus on building and designing systems with security integrated from the start, ensuring reliability, scalability, and compliance throughout the development lifecycle.

Key Achievements:
- Optimized application performance and accelerated release cycles.
- Improved operational efficiency.
- Designed and maintained internal infrastructure for the Aspera WebApps team, ensuring reliable, reproducible, and secure environments.
- Prioritized security by proactively reviewing software versions and dependencies to ensure long-term support (LTS) and high standard compliance.

Experience
DEVOPS & PLATTFORM TEST ENGINEER (Band 8)
Aspera, an IBM Company – San Francisco, CA
Feb. 2020 – Present
- Implemented automation and parallel testing, reducing QA cycle times and accelerating release schedules.
- Key contributor to the release cycles of HSTS, AsperaProxy, HTTP-Gateway, and OTFV (Out-of-file-validation) virus detection ensuring stability and timely delivery.
- Enhanced product performance and customer satisfaction by contributing to Faspex5 versions 5.0.0 through 5.0.14.
- Created turnkey test environments, reducing setup time by 50%
- Enabled parallel deployments across all supported OS versions, improving team efficiency.
- Helped Architect and implement high-availability Faspex5 deployments. Responsible for validation testing for both on-prem (MariaDB Galera) and cloud (RDS HA) ensuring compatibility.
- Managed and successfully drove the annual DISA Security STIG testing to completion as the sole engineer for the past five years.
- Coordinated with External Security Teams and Pentest Teams for annual security Testing for entire WebApp Portfolio.
- Developed, maintained, and Dockerized automation scripts to streamline workflows.
- Led AWS cloud deployments and applied CI/CD pipelines using Jenkins for core and legacy web applications.
- Conducted comprehensive validation testing across distributed systems, containers, and cloud infrastructure.

Education and training
IBM Apprenticeship Program
Feb 2019 - Feb 2020
- Completed an intensive hands-on program specializing in software development, quality assurance, and testing methodologies.
- Acquired practical experience in deploying, testing, and maintaining enterprise applications in both on-premises and cloud environments.
- Developed foundational skills in DevOps practices, automation, and continuous integration pipelines, establishing a strong entry into the technology field.