

# SECRETS

AT

# SCALE

A PRACTITIONER'S GUIDE TO MANAGING SECRETS  
ACROSS THE FULL SOFTWARE DELIVERY LIFECYCLE



ACCESS CONTROL  
& IAM



SECRET  
ROTATION



AUDITING &  
COMPLIANCE



CI/CD  
INTEGRATION



MULTI-CLOUD  
& HYBRID



INFRASTRUCTURE  
AS CODE



THREAT MODELS &  
INCIDENT RESPONSE



— STEVE T. —

# Secrets at Scale

A Practitioner's Guide to Managing Secrets Across the Full Software Delivery Lifecycle

Steve T. Team Publications

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# A Practitioner's Guide to Managing Secrets Across the Full Software Delivery Lifecycle

**About this book:** This book is a comprehensive, practitioner-focused guide to secrets management across the full software delivery lifecycle. It covers development, testing, staging, production, cloud-native, hybrid, and on-premises environments with hands-on implementation guidance, real-world architectures, threat models, secret rotation, access control, auditing, compliance, CI/CD integration, Kubernetes, containers, infrastructure as code, multi-cloud deployments, incident response, and operational best practices. You will find step-by-step tutorials, code examples, diagrams, case studies, anti-patterns, and tool comparisons that enable engineers, DevOps teams, platform engineers, and security professionals to securely manage secrets at scale.

# Introduction

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## Secret Access Policies: Time-Bound Access, Just-In-Time Provisioning

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## **Emergency Access Procedures and Break-Glass Patterns**

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# Chapter 11: Incident Response – When Secrets Are Compromised

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## Detection: Monitoring for Secret Exposure in Logs, Repos, and Dark Web

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## Forensic Investigation: Tracing Secret Usage and Identifying Scope of Compromise

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## **Tabletop Exercises and Incident Simulation**

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# **Chapter 12: The Future of Secrets Management – Zero Trust, Confidential Computing, and Beyond**

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# Conclusion

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