

SERVER AUTOMATION WITH PYTHON



THE **2026** EDITION

MODERN INFRASTRUCTURE WORKFLOWS
FOR CLOUD-NATIVE, AI-AUGMENTED,
AND IMMUTABLE SYSTEMS



SSH & REMOTE
AUTOMATION



CONFIGURATION
MANAGEMENT



CLOUD SDKs
& MULTI-CLOUD



GITOPS &
CI/CD PIPELINES



IMMUTABLE
INFRASTRUCTURE



SECURITY &
COMPLIANCE



CHAOS ENGINEERING
& RESILIENCE



AI-AUGMENTED
DEVELOPMENT

DMITRY SERGIEYEVICH SOKOLOV



Server Automation with Python: The 2026 Edition

Modern Infrastructure Workflows for Cloud-Native, AI-Augmented, and Immutable Systems

Steve T. Publications

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<https://leanpub.com/serverautomationwithpythonthe2026edition>

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Modern Infrastructure Workflows for Cloud-Native, AI-Augmented, and Immutable Systems

About this book: Server automation has evolved far beyond cron jobs and shell scripts. In 2026, the infrastructure engineer's toolkit spans SSH libraries, cloud SDKs, GitOps control planes, chaos engineering frameworks, and AI-assisted coding agents. This book is a comprehensive, production-focused guide for intermediate to advanced practitioners who want to build scalable, resilient, and secure automation architectures using Python. From Fabric and Ansible Python APIs through boto3, Azure SDK, and Google Cloud client libraries, from immutable infrastructure pipelines through GitOps workflows, self-healing systems, chaos engineering, and AI-augmented development, every chapter delivers practical code examples, error handling patterns, performance optimization techniques, and real-world case studies reflecting the emerging industry landscape of 2026. Whether you are an individual developer modernizing your infrastructure workflows or part of an enterprise team building automation at scale, this book provides the depth and breadth you need to operate confidently in today's hybrid, cloud-native, AI-informed world.

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