

OPENCLAW

IN

PRODUCTION

A COMPLETE GUIDE TO SECURELY DEPLOYING,
OPERATING, AND SCALING SELF-HOSTED
AI AGENTS



SECURE
BY DESIGN



RELIABLE
OPERATIONS



REAL-TIME
MONITORING



RESILIENT
BY DEFAULT



SCALE
WITH CONFIDENCE

STEVE T.

Running OpenClaw in Production

A Complete Guide to Securely Deploying, Operating, and Scaling Self-Hosted AI Agents

Steve T. Team Publications

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Introduction: The Production Mindset

The first time I watched an OpenClaw agent autonomously execute shell commands, send Slack messages, and answer questions across WhatsApp and Telegram simultaneously, I felt something between awe and dread. Awe because it worked. Dread because I had not yet thought through what would happen if someone else figured out how to talk to it.

OpenClaw is an open-source AI agent project hosted on GitHub at <https://github.com/openclaw/openclaw>, distributed as the `openclaw` npm package. As of mid-2026 it has accumulated well over 100,000 stars, making it one of the fastest-growing repositories on the platform. That kind of adoption brings attention from well-meaning users, curious researchers, and yes, attackers. The default configuration that makes onboarding delightful is deliberately permissive. It assumes you are the only person talking to your agent, you trust everything it touches, and you will remember to tighten things up before putting it in front of the internet. That assumption holds for a weekend project. It does not hold for a production service handling real conversations, real data, and real consequences.

This book is about crossing that line. About taking an OpenClaw instance from “it works on my machine” to “it works reliably, securely, and observably in production.” It covers the full lifecycle: choosing hardware, installing, configuring, connecting channels and LLMs, containerizing for deployment, hardening against threats, monitoring performance, managing secrets, backing up state, updating safely, and recovering from failures.

The audience is broad by necessity. OpenClaw runs on everything from a \$5 VPS to a Kubernetes cluster with custom operators. Some readers will be sysadmins who have never touched an AI model. Others will be ML engineers who need to understand networking and container orchestration. This book meets both audiences where they are, building from fundamentals to advanced operations without skipping the parts that matter for production readiness.

Here is how to use this book:

- **Chapters 1 through 3** build your mental model. You will understand OpenClaw’s architecture, what it actually does when a message arrives,

and how every piece of configuration connects to the whole. This is not optional reading if you want to debug production issues later.

- **Chapters 4 through 6** cover integration: authentication, channels, and LLM providers. These are where most real-world deployments spend their time tuning.
- **Chapters 7 through 8** handle deployment infrastructure: containers, Kubernetes, networking, and TLS. This is where development environments diverge from production reality.
- **Chapters 9 through 10** address security and observability. These are the chapters that separate a hobby project from a production service. Read them carefully.
- **Chapters 11 through 12** cover operations: backups, updates, performance tuning, compliance, and the day-to-day discipline of running OpenClaw reliably.

Every chapter includes concrete configuration examples, real commands you can run, and references to official documentation for deeper dives. The code snippets assume a Linux or macOS host with Node.js 24 installed. Windows users should follow along using WSL2, which provides a compatible environment.

One important caveat: OpenClaw moves fast. New features, configuration keys, and security findings appear regularly. The information in this book reflects the state of OpenClaw as of mid-2026, anchored to specific versions where possible. When you encounter something that does not match, check `docs.openclaw.ai` for the latest reference, and remember that the principles in this book (least privilege, defense in depth, observability) apply regardless of version.

Let us begin.

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Supported Cloud Providers: OpenAI, Anthropic, Google, OpenRouter, and Others

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Provider Configuration with Auth Profiles and Failover Chains

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Model Selection Trade-Offs: Quality vs Cost vs Latency vs Privacy

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