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OpenClaw Series — Central Hub

10 Guides to Deploy Your Self-Hosted AI Agent Network

Complete index: installation, security, agents, LLM, automation, RAG

Mars 2026

Table of Contents

OpenClaw is not another conversational assistant. It's a self-hosted AI agent runtime — a platform that transforms an isolated assistant into a team of autonomous agents operating on your infrastructure.

1. Introduction — OpenClaw as the OS for AI Agents

Most organizations begin their AI journey with conversational interfaces: ChatGPT, Claude, Gemini. These tools remain fundamentally stateless: no persistent memory, no infrastructure access, no autonomous action capability.

OpenClaw operates on a radically different model. The agent has a persistent local workspace — a versioned directory that serves as its working space, memory, and registry of all its actions.

Fundamental distinction: you don't consult OpenClaw, you delegate responsibilities to it.

■ *Per Gartner 2025, 67% of CIOs are evaluating autonomous AI agent solutions — but only 12% have deployed in production. Self-hosted represents the pragmatic path to controlling the attack surface.*

2. The 10-Step Progression

• **Steps 1-2** — Understand the ecosystem and lay foundations (installation, workspace, first skills)

• **Steps 3-4** — Secure the architecture before going further (auth, SSL, secrets vault)

• **Steps 5-6** — Configure agents and evaluate available LLM models

• **Steps 7-8** — Extend with local LLMs and automate operations

• **Steps 9-10** — Advanced architectures — long-term memory and vector databases (RAG)

3. The 10 Series Guides

B1 — Agent Network: Field Report

The OpenClaw concept from scratch: persistent workspace, self-hosted, and why an agent network changes automation.

blog.botum.ca/openclaw-reseau-agents-retour-terrain/

B2 — Installation & Workspace

Complete Linux installation, activating first skills, first operational agent in 30 minutes.

blog.botum.ca/openclaw-installation-workspace-premier-agent/

B3 — Securing in Production

Auth, HTTPS Nginx reverse proxy, network isolation, sandboxing. Complete security checklist.

blog.botum.ca/openclaw-securiser-auth-ssl-reverse-proxy-vault/

B4 — Secrets & Vault

Structuring SOUL.md and agent files without exposing secrets. Credentials vault integration.

blog.botum.ca/openclaw-secrets-credentials-vault-contexte-ia/

B5 — Configuring First Agents

JARVIS, HERMES, CHRONOS: identities, shared workspace, inter-agent communication protocols.

blog.botum.ca/openclaw-configurer-premiers-agents-jarvis-hermes-chronos/

B6 — OpenClaw vs ChatGPT vs Claude API

Structured comparison: direct API vs SaaS vs self-hosted. Decision criteria by context.

blog.botum.ca/openclaw-vs-chatgpt-vs-claude-api-comparatif/

B7 — DeepSeek & Local LLM

Deploy a local LLM with Ollama. Zero inference cost, absolute privacy, intelligent routing.

blog.botum.ca/openclaw-deepseek-llm-local-open-source-couts-api/

B8 — Automating Operations

Crons, triggers, task queues, escalations. Multi-agent orchestration patterns in production.

blog.botum.ca/openclaw-automatiser-operations-crons-triggers-files-taches/

B9 — Memory & Context

Memory.md, compactions, hierarchical memory HOT/WARM/COLD. Continuity over weeks.

blog.botum.ca/openclaw-memoire-contexte-memory-md-compactions-long-terme/

B10 — Databases & RAG

PostgreSQL, pgvector, RAG pipeline. Semantic search over internal docs and emails.

blog.botum.ca/openclaw-bases-donnees-postgresql-rag-recherche-semantique/

4. Upcoming Series Announced

• **AI Insights Series** — Tech monitoring, LLM benchmarks, comparative analyses for objective decisions.

• **VMware → Alternatives Series** — Post-Broadcom migration: Proxmox, OpenStack, Harvester — field reports.

• **Infrastructure Security Series** — Zero trust, hardening, open-source SIEM, advanced OPNsense.

• **Enterprise Kubernetes Series** — GitOps, observability, cloud cost management in production.

Deploy OpenClaw in Production with BOTUM

These 10 guides cover the essentials. In production, every AI agent deployment has its constraints — sizing, security, memory management, business integrations. BOTUM teams guide organizations from audit to production.

Contact: www.botum.ca/contact

Series hub: blog.botum.ca/openclaw-hub-complete-series-10-guides

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