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Register

OpenClaw Training: Local AI Agent

2 days (14 hours)

Overview

OpenClaw is a local AI agent designed to automate tasks (file analysis, script generation, support assistance) while keeping your data on your workstation. Ideal for prototyping AI workflows, integrating internal tools, and reducing dependence on the cloud.

This training aims to enable participants to install, configure, and run OpenClaw in a professional context: equipped agents, controlled execution, prompt and permission management. The focus is on reproducibility, traceability, and security of use.

The approach is resolutely practical: guided demos, workshops on creating an agent (tools, memory, rules), then a real-life scenario (automation of Dev/IT tasks). Deliverables include a functional configuration, a set of prompts/rules, and a mini-project for a local agent ready to be adapted.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Install and validate a local OpenClaw environment.
- Configure an agent (roles, rules, memory, settings).
- Connect tools (CLI, files, scripts) in a controlled manner.
- Design robust prompts and execution safeguards.
- Test, debug, and document an agent workflow.

Target audience

- Software developers and engineers
- DevOps/SRE/system administrators
- Technical project managers and tooling experts
- Data/AI practitioners wishing to industrialize agents

Prerequisites

- Proficiency with a terminal (basic commands, environment variables).
- Basic knowledge of Git and project management.
- Basic knowledge of Python or JavaScript.
- Understanding of APIs/JSON and common file formats.

Technical prerequisites

- Computer with 16 GB RAM recommended
- Linux, macOS, or Windows (WSL2 recommended).
- Administrator access to install dependencies, runtime, and tools.
- A code editor and terminal (Bash/Zsh/PowerShell).
- Available disk space for models, caches, and logs (at least 10 GB).

OpenClaw training program: Local AI agent

[Day 1 - Morning]

Install and start OpenClaw locally

- Understand the architecture: agent, tools, memory, models, sandbox
- Prepare the environment: OS prerequisites, Python/Node, GPU/CPU, environment variables
- Install OpenClaw and verify proper functioning (CLI, logs, health check)
- Configure a local model: choice of backend (e.g., Ollama/llama.cpp), parameters (context, temperature)
- Hands-on workshop: Complete installation and execution of a first agent locally.

[Day 1 - Afternoon]

Designing an agent: prompts, tools, and safeguards

- Structure instructions: role, objectives, constraints, output format
- Connecting tools: executing commands, file access, internal HTTP calls
- Managing the context: segmentation, summaries, token limits, memory strategy
- Implementing safeguards: permissions, allowlists/denylists, timeouts, quotas
- Hands-on workshop: Create a "DevOps assistant" agent capable of diagnosing a service via local logs.

[Day 2 - Morning]

Local RAG: connecting OpenClaw to your documents

- Prepare sources: PDF/Markdown, cleaning, chunking, and metadata
- Index locally: embeddings, choice of store (SQLite/FAISS), update strategy
- Configure search: top-k, filters, reranking, citations, and traceability
- Evaluate quality: question sets, hallucination rate, simple metrics (precision@k)
- Hands-on workshop: Build an "internal support" agent that responds from a local document database.

[Day 2 - Afternoon]

Industrialize: observability, security, and packaging

- Observability: structured logs, tool traces, metrics (latency, tokens, errors)
- Testing and validation: scenarios, non-regression testing, prompt sets, golden outputs
- Security: secrets, isolation, access control, prompt injection prevention on tools/RAG
- Local deployment: systemd/Docker service, configuration by environment, memory backup
- Hands-on workshop: Packaging the agent in local service with configuration, logs, and end-to-end testing
  end.

Target companies

This training is intended for both individuals and companies, small or large, wishing to train their teams in a new advanced IT technology or to acquire specific business knowledge or modern methods.

Positioning at the start of training

The positioning at the start of the training course complies with Qualiopi quality criteria. Once they have finalized their registration, learners receive a self-assessment questionnaire that allows us to assess their estimated level of proficiency in different types of technologies, as well as their expectations and personal objectives for the upcoming training course, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could be problematic for the monitoring and smooth running of the training session.

Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training course.