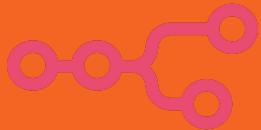


N8N



20/01/2026

What is N8N?

A **low-code** platform for building **automated workflows** using **drag-and-drop** nodes

Connects apps/services via **triggers** (webhooks, schedules, chat) and **actions** (API calls, data processing, notifications)

Supports logic (IF, routing), integrations, and AI/LLM steps inside the same workflow

Goal: automate repetitive processes in a way that is reusable and easy to modify

N8N vs KNIME

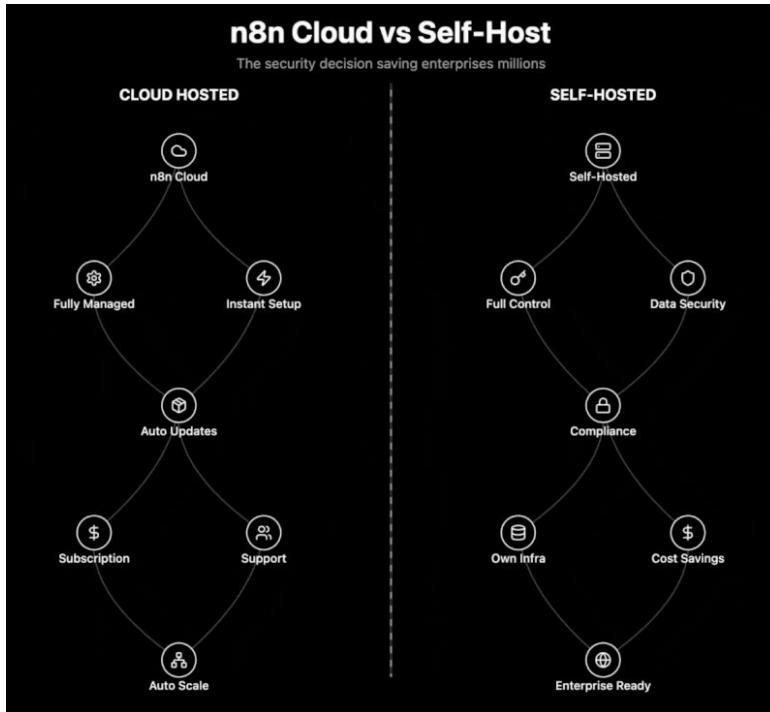
n8n (Automation & Integration)

- Primary focus: **workflow automation** across apps/services
- Strengths: **integrations**, event-driven flows, routing/IF logic, orchestration, LLM/agent pipelines
- Typical outputs: messages, API responses, tickets, database updates, automated reports

KNIME (Data Analytics & ML Pipelines)

- Primary focus: **data analytics and machine learning workflows**
- Strengths: **data prep**, feature engineering, modeling, evaluation, reproducible analysis
- Typical outputs: cleaned datasets, model performance results, dashboards/exports

Where to use?



- 1) **Localhost (your computer)** - setup require Docker/Node.js
- 2) **Self-hosted (your own server)** - you are responsible for deployment, security, updates, and uptime
- 3) **n8n Cloud (managed service)** – used in this lab
 - n8n hosts and maintains the platform for you (no server setup)
 - Best for: fastest start, reliable uptime, easy sharing/collaboration
 - **In this lab:** use the **14-day free trial** to build workflows without installation

Start automating today

Full name

Company email

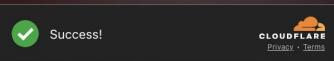
Confirm email address

Password

Account name

.app.n8n.cloud

Keep up with our constant improvements through our newsletter



Start free 14-day trial

By continuing, you agree to our [terms and conditions](#).
[Privacy policy](#).

Registration & Free Trial Activation (n8n Cloud)

Go [here](#).

Let's Drag, Drop, and Automate

What we will build in n8n (using the built-in Chat UI)

Lab 8.1 – PubMed Q&A Chatbot

- Input: a natural-language question in chat
- Workflow: validate the request → create a structured PubMed search plan → call PubMed APIs → format a concise answer with citations (PMID/title/journal/year) → respond in chat.

Lab 8.2 – Document-based RAG Chatbot

- Input: either (a) upload a document, or (b) ask a question
- Workflow:
 - Upload path: load document → chunk text → create embeddings → store in a vector database
 - Question path: retrieve relevant chunks → generate an answer grounded in retrieved text → respond in chat.