

Agentic Tools

Agent Development

- Microsoft: [10 Lessons teaching everything you need to know to start building AI Agents](#)
- Kaggle: [5-Day AI Agents Intensive Course with Google | Kaggle](#)
- Google: [Agent Development Kit](#)

Top AI Agents Platforms

No code ? Low code AI ??????

Self-Hosted

1. [n8n](#)
2. [CrewAI](#)
3. [Dify](#)
4. [LangFlow](#) - ????? RAG ? AI ?????

Cloud-Based

- [Coze](#)
- [Zapier](#)
- [Make](#)

n8n

- <https://n8n.io/>
- Doc: <https://docs.n8n.io/hosting/>
- [Automate Your Home Lab with n8n Workflow Automation and AI - Virtualization Howto](#)
- [?n8n ??????????????????????Webhook ????????????](#)
- [????????n8n AI ??0????????? — \(AI Agent | LLM | RAG | Webhook| AI ??????????\) - YouTube](#)

Community Nodes

- [Install and manage community nodes | n8n Docs](#)

PDF to Image

- [n8n-nodes-pdf2image](#)
- [n8n-nodes-pdfconvert](#)

n8n Installation

On a laptop (small level)

- YOUR_TIMEZONE: `Asia/Taipei` or `America/Chicago` or `America/New_York`

```
docker volume create n8n_data

docker run -it --rm \
  --name n8n \
  -p 5678:5678 \
  -e GENERIC_TIMEZONE="<YOUR_TIMEZONE>" \
  -e TZ="<YOUR_TIMEZONE>" \
  -e N8N_ENFORCE_SETTINGS_FILE_PERMISSIONS=true \
  -e N8N_RUNNERS_ENABLED=true \
  -v n8n_data:/home/node/.n8n \
  docker.n8n.io/n8nio/n8n
```

Quick Start Examples

Basic Data Access

```
{{ $json.fieldName }}           // Get field from current item
{{ $('Node Name').item.json.field }} // Data from specific node
{{ $json.items?.[0] }}         // Safe array access
```

Date Functions

```
{{ $now.format('YYYY-MM-DD') }} // 2024-01-15
{{ $now.plus({days: 7}) }}      // 7 days from now
{{ $now.diff('2024-01-01', 'days') }} // Days between dates
```

String Manipulation

```
{{ $json.name.toLowerCase() }}           // convert to lowercase
{{ $json.email.split('@')[0] }}          // Username from email
{{ $json.text.slice(0, 50) }}            // First 50 characters
```

Array Processing

```
{{ $json.items.length }}                 // Count array items
{{ $json.items.filter(item => item.active) }} // Filter items
{{ $json.items.map(item => item.name) }}    // Extract field from all items
```

? Nodes ? binary ??

- [Analyze any Video, Image or PDF with Gemini and n8n \(Step-by-Step\) - YouTube \(Gemini API - Http Request\)](#)

?? Code node

```
return{
  json: {},
  binary: $('On Form submission').item.binary
}
```

Gmail Trigger

- [I Made an Email Auto-Responder to Conquer my Writer's Block | by Nicolas CHOURROUT | Medium](#)

MCP

- [Building AI Agents with Google ADK, FastAPI, and MCP - DEV Community](#)
- [Awesome MCP Servers](#)

No Code Tools

- [Airtable](#) - ??????
 - [?????????? Airtable????????????????????](#)
- [CodeGraph](#) - ?????????? AI ??????????
- [GitNexus](#) - ? GitHub ??????????

Tool Calling

- [Mastering LLM Tool Calling: The Complete Framework for Connecting Models to the Real World - MachineLearningMastery.com](#)

Alternatives to OpenClaw

Hermes Agent

The self-improving AI agent built by Nous Research. It's the only agent with a built-in learning loop — it creates skills from experience, improves them during use, nudges itself to persist knowledge, searches its own past conversations, and builds a deepening model of who you are across sessions.

- <https://github.com/nousresearch/hermes-agent>

DeerFlow

DeerFlow (Deep Exploration and Efficient Research Flow) is an open-source super agent harness that orchestrates sub-agents, memory, and sandboxes to do almost anything — powered by extensible skills.

- <https://github.com/bytedance/deer-flow>

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