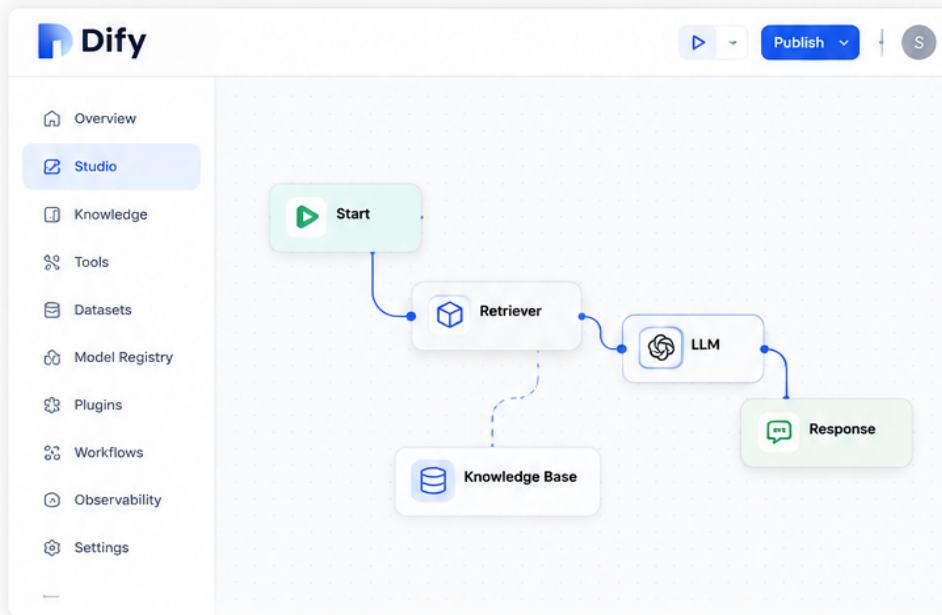


THE COMPLETE GUIDE TO

Dify

FROM ZERO TO PRODUCTION —
BUILDING, DEPLOYING, AND SCALING
AI APPLICATIONS



MODEL REGISTRY

- GPT-4o
- Claude 3.5
- Llama 3.1 70B
- Qwen 2.5 72B

RAG & KNOWLEDGE

- Documents
- Datasets
- Retrieval
- Chunking

OBSERVABILITY

- Traces
- Logs
- Metrics
- Evaluations


VISUAL
WORKFLOWS


RAG &
KNOWLEDGE


AGENTS &
TOOLS


INTEGRATIONS


DEPLOYMENT
& SCALE


SECURITY &
OBSERVABILITY

STEVE T.

The Complete Guide to Dify

From Zero to Production – Building, Deploying, and Scaling AI Applications

Steve T. Team Publications

This book is available at <https://leanpub.com/thecompleteguidetodify>

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About This Book

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Introduction

You have a problem. It is not a lack of ideas. It is a lack of time. You want to build an AI-powered feature, but the path from idea to production is littered with infrastructure decisions, model provider API keys, RAG pipeline tuning, agent orchestration, observability hooks, and deployment plumbing. Every new project starts with the same question: how do I get this running fast without sacrificing quality?

Dify was built for that exact moment. It is the open-source platform that lets you go from “I have a prompt” to “I have a production API endpoint” in hours instead of weeks. The platform combines a visual workflow designer, a rich model registry, built-in RAG, agent capabilities, and full observability into one cohesive stack. It supports hundreds of proprietary and open-source models, integrates with external APIs and databases, and deploys on everything from a single Docker container to a multi-region Kubernetes cluster.

This book is not a marketing brochure. It is a practical, hands-on guide written for developers, data scientists, and technical product managers who want to build AI applications with Dify. You will learn how to install it, configure it, design workflows, build agents, integrate external systems, deploy securely, and scale for real-world workloads. Every chapter includes concrete examples, real configurations, and lessons learned from production deployments.

The journey starts with understanding what Dify is and why it matters. Then we dive deep into its architecture so you understand the “why” behind every design decision. Next, we walk through installation, configuration, and building your first application. From there, we cover workflow design, integrations, deployment, security, scaling, and troubleshooting. The final chapters bring it all together with real-world use cases, best practices, and a look at where Dify is heading.

By the end of this book, you will be able to:

- Install and configure Dify on any infrastructure
- Build AI applications using text generation, chat, agent, and workflow modes

- Design complex multi-step workflows with conditionals, loops, and parallel execution
- Integrate external APIs, databases, and file storage
- Deploy Dify securely with proper SSL, monitoring, and scaling
- Troubleshoot common issues and optimize performance
- Apply best practices for prompt engineering, RAG, and agent design

Let us begin.

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