

AZURE AI SEARCH AND FOUNDRY IQ

GROUNDING ENTERPRISE AI
ON YOUR OWN DATA



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BOOK TEASER · FREE DIGITAL EDITION

Azure AI Search and Foundry IQ

Launches September 30, 2026

The complete 321-page digital edition will be free. A printed edition will additionally be available on Amazon.

What is inside this teaser

- About the book and its production-focused retrieval approach
- The public, keyless code repository
- About Jannik Reinhard
- The complete table of contents: 17 chapters across 4 parts

Jannik Reinhard · Microsoft MVP: Security (Intune) + AI Platform (Azure AI Services)

jannikreinhard.com/books/azure-ai-search-foundry-iq/

About the Book

Every useful enterprise AI system has the same secret behind it, and it is not the model. It is retrieval — the ability to find the right few paragraphs, out of everything your organization knows, and put them in front of the model at the moment it answers. Get that right and a general model becomes an expert on *your* business. Get it wrong and you have a confident, fluent, well-branded way of being wrong at scale.

This book is about getting it right, on the Microsoft stack. The two tools at its center are **Azure AI Search** — the search and retrieval engine that used to be called Azure Cognitive Search — and **Foundry IQ**, the newer knowledge layer that sits on top of it and gives your agents *agentic retrieval*: the ability to plan a query, run several searches in parallel, rerank, and return a merged, cited answer. Azure AI Search is the muscle; Foundry IQ is the brain that decides how to use it.

I wrote this the way I work: hands-on, with real projects you can rebuild in your own subscription. We start from first principles — what retrieval is and why RAG beats fine-tuning for most enterprise problems — then build a real index end to end: ingest your data, chunk it, vectorize it with an embedding model, design the fields and scoring, and enrich it with skillsets. Then we query it properly, with full-text, vector, and hybrid search, the semantic ranker, and Foundry IQ's agentic retrieval. Finally we take it to production: grounding Foundry agents and Copilot Studio on your knowledge, securing it with RBAC and document-level permission trimming, and keeping it fast, fresh, and affordable.

You do not need to be a search specialist to start; basic Azure familiarity helps. Whether you are a developer building a RAG application, an architect designing a knowledge platform, or an admin who has been asked to “ground Copilot on our documents,” there is a path through this book for you. I checked the technical content against Microsoft's public documentation in mid-2026. This area moves fast — verify current availability, prices, limits, and retirement dates before a production decision.

The code

Every code listing in this book — the REST calls, the Python, the index and skillset definitions, the queries — is on GitHub as a runnable file, organized by chapter, so you can clone it and run it against your own service instead of retyping from the page:

<https://github.com/JayRHa/ai-search-foundry-iq-code>



The files are keyless from the start — they authenticate with `DefaultAzureCredential`, so there is no admin key to paste anywhere. Each one names the environment variables it needs and adds the small bit of setup the book explains in prose. If something drifts after printing, that repository is where I keep it current.

About the Author



Jannik Reinhard is a Microsoft MVP for Security and Intune and for AI Platform and Foundry. Today he works as an AI Engineer at Epic Fusion, focusing on Microsoft Foundry, AI agents, retrieval and knowledge platforms, Azure automation, security, and cloud architecture.

Before Epic Fusion, Jannik worked at BASF — one of the world’s largest chemical companies — as a Lead Architect and Technical Lead, where he led technical teams and built AI solutions for a global enterprise of 120,000 users. He was working on enterprise AI before the current hype: he started testing GPT-3 right after its release and was one of the early Azure OpenAI customers. Since then he has tested new models and platform features as they shipped — which is also how he learned to check what still works when a demo becomes a production service.

Jannik holds a stack of Microsoft certifications and is an active Microsoft Certified Trainer. He maintains many public repositories, contributes to open source, blogs at **jannikreinhard.com**, speaks at conferences around the world, and mentors young professionals. This is his third book, after *AI, Automation and Analytics: Transforming Device Management with Intune* and *Microsoft Foundry*. All three share the same idea: explain the topic practically enough that the reader can go and build it.

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Azure AI Search and Foundry IQ: Grounding Enterprise AI on Your Own Data

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Published by: Jannik Reinhard, 76855 Annweiler, Germany.

First edition published 2026.

Product names, screenshots, prices, and preview/GA status reflect the state of the Microsoft cloud as it was verified in mid-2026. Cloud services change continuously; treat any dated fact as dated and recheck the linked source before you rely on it in production.

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