

OpenAI API 端点架构对比

Chat Completions API

传统行业标准

客户端状态

完整 messages
手动管理

工具调用

严格参数
手动处理

请求格式

JSON only
标准接口

生态兼容

广泛支持
成熟稳定

✓ 精确状态控制

✓ 广泛兼容性 ✓ 成熟生态

✗ 状态管理复杂 ✗ 工具集成繁琐

VS

Responses API

下一代解决方案

服务端状态

store: true
自动管理

内置工具

web_search
computer_use

多格式支持

JSON + HTML
灵活调用

智能优化

自动处理
性能提升

✓ 简化开发流程

✓ 内置工具丰富 ✓ 状态自动管理

✗ 新功能 ✗ 生态待完善

Api Quser Guide

Daniel Jacobson, Greg Brail, Dan Woods

Api Quser Guide:

Experts' Guide to OS/400 & I5/OS Security Carol Woodbury, Patrick Botz, 2004 **Mastering Java and Advanced Software Development** Aditya Pratap Bhuyan, 2024-07-25 Mastering Java and Advanced Software Development A Comprehensive Guide to Technical Interview Preparation is your ultimate resource for excelling in software development interviews and advancing your career Covering a wide range of topics including Java programming J2EE Spring Spring Boot cloud technologies SDLC project management software engineering configuration management Java optimization memory management data structures algorithms databases RDBMS SQL NoSQL database architecture and Java security this book provides detailed questions and answers to help you master the core concepts and advanced practices essential for modern software development Equip yourself with the knowledge and confidence to tackle technical interviews and build robust scalable applications **Spring Data** Mark Pollack, Oliver Gierke, Thomas Risberg, Jon Brisbin, Michael Hunger, 2012-10-12 You can choose several data access frameworks when building Java enterprise applications that work with relational databases But what about big data This hands on introduction shows you how Spring Data makes it relatively easy to build applications across a wide range of new data access technologies such as NoSQL and Hadoop Through several sample projects you ll learn how Spring Data provides a consistent programming model that retains NoSQL specific features and capabilities and helps you develop Hadoop applications across a wide range of use cases such as data analysis event stream processing and workflow You ll also discover the features Spring Data adds to Spring s existing JPA and JDBC support for writing RDBMS based data access layers Learn about Spring s template helper classes to simplify the use of database specific functionality Explore Spring Data s repository abstraction and advanced query functionality Use Spring Data with Redis key value store HBase column family MongoDB document database and Neo4j graph database Discover the GemFire distributed data grid solution Export Spring Data JPA managed entities to the Web as RESTful web services Simplify the development of HBase applications using a lightweight object mapping framework Build example big data pipelines with Spring Batch and Spring Integration **Undisturbed REST** Michael Stowe, 2015-05-07 Believe it or not building an API is the easy part What is far more challenging is to put together a design that will stand the test of time while also meeting your developers needs After all no matter how well written your code may be without a strong foundation you will find your API quickly failing Undisturbed REST works to tackle this issue through the use of modern design techniques and technology showing how to carefully design your API with your users and longevity in mind taking advantage of a design first approach while incorporating best practices and hard lessons learned After reading Undisturbed REST you ll have a strong understanding of APIs best practices and available tooling for designing prototyping sharing documenting and generating tooling such as SDKs around your API More importantly you ll be equipped to design and build an API not just for today but one that can stand the test of time and lead your application into tomorrow *Learning Azure API Management* Naman Sinha, 2024-08-28

DESCRIPTION Azure API Management is a powerful platform that facilitates developers and organizations to create, manage, and secure APIs. This book will guide you through the entire API lifecycle from designing and developing APIs to publishing, managing, and securing them. This guide to Azure API Management offers a detailed exploration of the platform covering everything from basic concepts to advanced features. It teaches you how to create, manage, and secure APIs, including topics like API products, subscriptions, versions, policies, security, and user management. Filled with practical examples and hands-on exercises, it is perfect for developers and IT professionals aiming to build and manage reliable APIs using Azure. The step-by-step instructions and clear explanations make it easy to master Azure API Management and achieve your API development goals. With a focus on practical application, this guide goes beyond theory, giving you the tools and knowledge you need to tackle real-world challenges. By the end of this book, you will be equipped with the skills to build and manage robust APIs that drive business success, making it an essential resource for anyone working in today's API-driven landscape.

KEY FEATURES Learn the basics of digital infrastructure, including cloud computing, Microsoft Azure, and REST APIs. Build web APIs from scratch and use Microsoft Azure API Management to deploy and secure them. Get a practical, example-based guide for understanding the full API development process.

WHAT YOU WILL LEARN Build and deploy a simple web API in .NET Core and Azure. Set up an enterprise-grade API ecosystem, scale efficiently, and manage large APIs using the infrastructure and deployment options. Monitor APIs using the monitoring section's crucial insights about API performance and usage. Safe updates and transparent API evolution using the versions and revisions feature. Ensure secure, consistent, and efficient API behavior using policies.

WHO THIS BOOK IS FOR This book is geared towards Azure developers, DevOps engineers, backend engineers, and anyone interested in building, managing, and securing APIs on the Azure platform. Whether you are a seasoned professional or just starting your journey in API management, this book provides the knowledge and skills you need to succeed.

TABLE OF CONTENTS 1 Introduction to Azure 2 API Overview 3 Introduction to Azure API Management 4 Building My First API 5 APIM in Focus: Navigating the Basics 6 APIs and Products 7 Users, Groups, and Subscriptions 8 Versions and Revisions 9 Policies 10 Monitoring 11 Infrastructure and Deployment 12 Security and Automation

APIs: A Strategy Guide Daniel Jacobson, Greg Brail, Dan Woods, 2012. Creating channels with application programming interfaces. Cover

API Testing and Development with Postman Dave Westerveld, 2021-05-07. Explore the world of APIs and learn how to integrate them with production-ready applications using Postman and the Newman CLI. Key Features: Learn the tenets of effective API testing and API design. Gain an in-depth understanding of the various features Postman has to offer. Know when and how to use Postman for creating high-quality APIs for software and web apps.

Book Description Postman enables the exploration and testing of web APIs, helping testers and developers figure out how an API works. With Postman, you can create effective test automation for any APIs. If you want to put your knowledge of APIs to work quickly, this practical guide to using Postman will help you get started. The book provides a hands-on approach to learning the implementation and associated

methodologies that will have you up and running with Postman in no time Complete with step by step explanations of essential concepts practical examples and self assessment questions this book begins by taking you through the principles of effective API testing A combination of theory coupled with real world examples will help you learn how to use Postman to create well designed documented and tested APIs You ll then be able to try some hands on projects that will teach you how to add test automation to an already existing API with Postman and guide you in using Postman to create a well designed API from scratch By the end of this book you ll be able to use Postman to set up and run API tests for any API that you are working with What you will learn Find out what is involved in effective API testing Use data driven testing in Postman to create scalable API tests Understand what a well designed API looks like Become well versed with API terminology including the different types of APIs Get to grips with performing functional and non functional testing of an API Discover how to use industry standards such as OpenAPI and mocking in Postman Who this book is for The book is for software testing professionals and software developers looking to improve product and API quality through API test automation You will find this book useful if understand APIs and want to build your skills for creating testing and documenting APIs The book assumes beginner level knowledge of JavaScript and API development [Learn REST APIs: Your Guide to how to Find, Learn, and Connect to the REST APIs that Powers the Internet of Things Revolution.](#) Tony Gaitatzis, 2019-12-07 Learn how REST APIs work This book will teach you what REST APIs are why they are useful and how to use them to build more scalable faster more efficient applications In this book you will learn What is a REST API How are REST APIs used Why are REST APIs useful How REST works with HTTP Anatomy of a REST Request and Response Status messages Best Practices How to create read update and delete data Where to find REST API **API Management** Brajesh De, 2017-03-17 Maximize the impact of your assets and business services by providing APIs for developers and other users The journey described in this book starts with identifying business assets As part of the API team you then need to identify and define the requirements of traffic management security mediation and orchestration You also must define metrics for the analytics to measure the success of the overall API program API documentation and the ease of developer onboarding also determine the success of the APIs Finally monetization of these APIs leads to revenue generation for the enterprise Author De an expert in building and managing API solutions provides enterprise architects designers and technologists with insight into the world of APIs and the various technical aspects of building and managing an effective API management solution API Management Developing and Managing APIs for your Organization Introduces the basics of APIs and highlights their value Provides an overview of technologies for building an API management solution and defines the requirements including how to build a RESTful API Offers design principles for building developer friendly APIs Explains how to secure your APIs Shows how to use API analytics to measure the success of your APIs Demonstrates how to monetize APIs Finally API Management touches on various technical nuances of creating distributing and managing an API This book will not only help you learn how to design

build deploy and manage an API for an enterprise scale but also generate revenue for your organization What You ll Learn Discover the API life cycle Design and develop APIs Implement API security Test your APIs Deploy and monitor your APIs Who This Book Is For Enterprise architects technology enthusiasts security architects and operations specialists **API Development** Sascha Preibisch,2018-11-12 Implement application programming interface API usability security availability reliability and scalability to extend your company s market and potentially generate revenue Businesses know they need to extend their markets into the digital world and expose internal data to the Internet This book shows how stakeholders within an organization can make it a successful journey Stakeholder needs are not identical and departments experience difficulties discussing requirements with each other due to their different fundamental understanding of the process The goal of this book is to introduce a common language for all business groups developers security experts architects product managers around APIs and provide an overview of all aspects that need to be considered when exposing internal data Most of the content in this book is based on feedback from real world enterprise customer questions challenges and business scenarios Practical guidance is provided on the business value of APIs the general requirements to know and how to undertake an audience based implementation You will learn how to protect access to data as well as API error handling documentation management integration and more What You ll Learn Know the types of APIs and their business and technical requirements The main benefits of APIs including business value loose coupling and frequent updates Protect access to APIs through role based access attribute based access and rate limiting Distinguish between OAuth and OpenID Connect and know how they both work Manage API error handling including what should and should not be handled Understand the distinction between runtime dynamic data and static data Leverage external APIs as part of your own APIs Who This Book Is For API developers API security experts software architects product owners and business owners *Getting Started with IBM API Connect: Scenarios Guide* Alex Seriy,Bhargav Perepa,Christian E. Loza,Christopher P. Tchoukaleff,Gang Chen,Ilene Seelemann,Kurtulus Yildirim,Rahul Gupta,Soad Hamdy,Vasfi Gucer,IBM Redbooks,2016-09-08 IBM API Connect is an API management solution from IBM that offers capabilities to create run manage and secure APIs and microservices By using these capabilities the full lifecycle of APIs for on premises and cloud environments can be managed This IBM Redpaper™ publication describes practical scenarios that show the API Connect capabilities for managing the full API life cycle creating running securing and managing the APIs This Redpaper publication is targeted to users of an API Connect based API strategy developers IT architects and technical evangelists If you are not familiar with APIs or API Connect we suggest that you read the Redpaper publication *Getting Started with IBM API Connect Concepts Architecture and Strategy Guide* REDP 5349 before reading this publication **Principles of Web API Design** James Higginbotham,2021-12-08 The Full Lifecycle Guide to API Design Principles of Web API Design brings together principles and processes to help you succeed across the entire API design lifecycle Drawing on extensive in the trenches experience leading consultant James Higginbotham helps

you align every stakeholder on specific outcomes design APIs that deliver value and scale the design process from small teams to the entire organization Higginbotham helps you bring an outside in perspective to API design to reflect the voices of customers and product teams map requirements to specific and well organized APIs and choose the right API style for writing them He walks through a real world example from the ground up offering guidance for anyone designing new APIs or extending existing APIs Deliver great APIs by getting your design processes right Gain agreement on specific outcomes from design teams customers and other stakeholders Craft job stories conduct EventStorming and model capabilities Identify the right APIs and organize operations into coherent API profiles Choose the best styles for each project REST gRPC GraphQL or event based async APIs Refine designs based on feedback from documenters testers and customers Decompose APIs into microservices Mature your API program implementing design and management processes that scale This guide is invaluable for anyone involved in planning or building APIs architects developers team leaders managers in single and multi team environments and any technical or business professional delivering API as a product offerings Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details **API**

Development with Laravel Adegoke Akintoye,2025-09-26 API Development with Laravel is your quick start guide to understanding and developing APIs in Laravel Concepts are presented in an easy to follow and digestable manner The concepts are not only clearly explained but practical examples are used to show how they are implemented During the course of this book you ll learn how to build a RESTful Payment Processing API of your own The book is written in a straight forward manner ensuring your time is not wasted We will start with an a general introduction to APIs before focusing on RESTful APIs in particular We then look at setting up our development environments after which we will look at why Laravel is a tool of choice for API development exploring Laravel concepts for API development We ll then start the implementation of our project using concepts we have learned Finally we ll look at how to deploy our project You Will Learn To Develop Laravel powered RESTful APIs Build a Payment Processing API Test your APIs Deploy your APIs Document and version control your APIs Make APIs secure with security best practices This Book Is For Anyone interested in acquiring knowledge about API development The ideal reader should possess the ability to navigate a computer s file system as well as the skills to create open and manage files and folders Additionally familiarity with web browsers and the capability to navigate between different websites is essential A willingness to use the command line and an understanding of basic programming concepts particularly in PHP is also recommended

The Modern API Guide Pradyun Pinapala,2025-10 **Designing API-First Enterprise Architectures on Azure** Subhajit Chatterjee,2021-08-24 Innovate at scale through well architected API led products that drive personalized predictive and adaptive customer experiences Key FeaturesStrategize your IT investments by modeling enterprise solutions with an API centric approachBuild robust and reliable API platforms to boost business agility and omnichannel deliveryCreate digital value chains through the productization of your APIsBook Description API

centric architectures are foundational to delivering omnichannel experiences for an enterprise With this book developers will learn techniques to design loosely coupled cloud based business tier interfaces that can be consumed by a variety of client applications Using real world examples and case studies the book helps you get to grips with the cloudbased design and implementation of reliable and resilient API centric solutions Starting with the evolution of enterprise applications you ll learn how API based integration architectures drive digital transformation You ll then learn about the important principles and practices that apply to cloud based API architectures and advance to exploring the different architecture styles and their implementation in Azure This book is written from a practitioner s point of view so you ll discover ideas and practices that have worked successfully in various customer scenarios By the end of this book you ll be able to architect design deploy and monetize your API solutions in the Azure cloud while implementing best practices and industry standards What you will learn

Explore the benefits of API led architecture in an enterprise
Build highly reliable and resilient cloud based API centric solutions
Plan technical initiatives based on Well Architected Framework principles
Get to grips with the productization and management of your API assets for value creation
Design high scale enterprise integration platforms on the Azure cloud
Study the important principles and practices that apply to cloud based API architectures

Who this book is for This book is for solution architects developers engineers DevOps professionals and IT decision makers who are responsible for designing and developing large distributed systems Familiarity with enterprise solution architectures and cloud based design will help you to comprehend the concepts covered in the book easily

Mastering Postman Oliver James, 2023-04-17 Build test debug document and publish APIs faster throughout the entire lifecycle Mastering Postman is the ultimate guide for anyone looking to streamline their API development process Whether you re a seasoned developer or just starting this book will take you through every step of the API lifecycle and equip you with the knowledge and tools to create better APIs faster Starting with API design the book covers the best practices for creating intuitive easy to use and scalable APIs Before deploying you ll learn how to use Postman to test your APIs thoroughly and ensure they re working as intended The book then delves into API documentation and mocking showing you how to create comprehensive documentation that s easy to understand and use You ll also learn how to use Postman to mock your APIs allowing you to test your code in a safe environment before deploying it to production Focusing on Python Flask and JavaScript coding Mastering Postman teaches you how to build powerful efficient and easy to use APIs You ll also learn about implementing API governance integration publishing and the Postman CLI in detail Throughout the book you ll find practical examples real world scenarios and tips and tricks to help you become more productive and efficient as you work on your APIs Whether you re a developer a product manager or a technical writer Mastering Postman will give you the skills and knowledge you need to create APIs that are robust reliable and easy to use With this book as your guide you ll be able to streamline your API development process and deliver better APIs faster than ever before

Key Learnings Streamline API development process with Postman for faster delivery Learn API design testing

documentation and mocking with real world examples Build APIs using Python Flask and JavaScript for better performance Master API governance integration and publishing with Postman Leverage Postman CLI for advanced API testing and automation Collaborate efficiently using Postman collections environments and workspaces Table of Content API LifeCycle and Postman API Design API Development API Testing API Security Using Postman CLI API Documentation Publishing API Integration API Performance API Governance Advanced API Developer Skills Audience Mastering Postman is ideal for developers and software engineers who want to build end to end APIs efficiently and effectively It is suitable for both beginners new to API development and experienced developers who want to master their API development testing debugging and integration skills Before reading this book you should understand web development HTTP protocol and API concepts

Enterprise API Management Luis Weir, 2019-07-23 A strategy and implementation guide for building deploying and managing APIs Key Features Comprehensive end to end guide to business driven enterprise APIs Distills years of experience with API and microservice strategies Provides detailed guidance on implementing API led architectures in any business Book Description APIs are the cornerstone of modern agile enterprise systems They enable access to enterprise services from a wide variety of devices act as a platform for innovation and open completely new revenue streams Enterprise API Management shows how to define the right architecture implement the right patterns and define the right organization model for business driven APIs Drawing on his experience of developing API and microservice strategies for some of the world s largest companies Luis Weir explains how APIs deliver value across an enterprise The book explores the architectural decisions implementation patterns and management practices for successful enterprise APIs as well as providing clear actionable advice on choosing and executing the right API strategy in your enterprise With a relentless focus on creating business value Luis Weir reveals an effective method for planning building and running business products and services with APIs What you will learn Create API strategies to deliver business value Monetize APIs promoting them through public marketplaces and directories Develop API led architectures applying best practice architecture patterns Choose between REST GraphQL and gRPC style API architectures Manage APIs and microservices through the complete life cycle Deploy APIs and business products as well as Target Operating Models Lead product based organizations to embrace DevOps and focus on delivering business capabilities Who this book is for Architects developers and technology executives who want to deliver successful API strategies that bring business value *Digital Transformation and Modernization with IBM API Connect* Bryon Kataoka, James Brennan, Ashish Aggarwal, Matt Roberts, 2022-01-14 Successfully execute a strategic roadmap of digital transformation and modernize your enterprise with a proven API led agile implementation approach by unlocking the full range of features in IBM API Connect Version 10 Key Features Explore techniques to design and deliver valuable customer centric APIs using API Connect Manage your APIs with improved security and optimal performance across many channels Uncover hidden capabilities that help improve business agility and management within your API ecosystem Book

Description IBM API Connect enables organizations to drive digital innovation using its scalable and robust API management capabilities across multi cloud and hybrid environments With API Connect s security flexibility and high performance you ll be able to meet the needs of your enterprise and clients by extending your API footprint This book provides a complete roadmap to create manage govern and publish your APIs You ll start by learning about API Connect components such as API managers developer portals gateways and analytics subsystems as well as the management capabilities provided by CLI commands You ll then develop APIs using OpenAPI and discover how you can enhance them with logic policies The book shows you how to modernize SOAP and FHIR REST services as secure APIs with authentication OAuth2 OpenID and JWT and demonstrates how API Connect provides safeguards for GraphQL APIs as well as published APIs that are easy to discover and well documented As you advance the book guides you in generating unit tests that supplement DevOps pipelines using Git and Jenkins for improved agility and concludes with best practices for implementing API governance and customizing API Connect components By the end of this book you ll have learned how to transform your business by speeding up the time to market of your products and increase the ROI for your enterprise What you will learn Use API Connect to create manage and publish customer centric API led solutions Run CLI commands to manage API configuration and deployments Create REST SOAP and GraphQL APIs securely using OpenAPI Support OAuth and JWT security methods using policies Create custom policies to supplement security Apply built in policies to transform payloads Use CLIs and unit testing hooks within DevOps pipelines Find out how to customize Analytics dashboards and Portal User Interface Who this book is for This book is for developers and architects who want to achieve digital transformation using IBM API Connect and successfully execute the strategic roadmap of enterprise modernization while effectively managing their API ecosystem A solid understanding of what RESTful services and APIs can do and where to implement API security is necessary to get started Experience in application development and basic knowledge of microservices container orchestration and cloud environments will help you to get the most out of this book

[Building an API Product](#) Bruno Pedro, 2024-01-25 Unlock the power of APIs with expert guidance and techniques for successfully creating testing and maintaining products that align with customers and stand out in the market Key Features Understand the complete API product lifecycle from planning to implementation release and maintenance Design and support API products that distinguish themselves on the market by meeting user needs Implement actionable techniques for developing testing and securing a successful API product Purchase of the print or Kindle book includes a free PDF eBook Book Description The exponential increase in the number of APIs is evidence of their widespread adoption by companies seeking to deliver value to users across diverse industries making the art of building successful APIs an invaluable skill for anyone involved in product development With this comprehensive guide you ll walk through the entire process of planning designing implementing releasing and maintaining successful API products You ll start by exploring all aspects of APIs including their types technologies protocols and lifecycle stages Next you ll learn how to define an API

strategy and identify business objectives user personas and jobs to be done JTBD With these skills you ll delve into designing and validating API capabilities to create a machine readable API definition As you advance the book helps you understand how to choose the right language and framework for securely releasing an API server and offers insights into analyzing API usage metrics improving performance and creating compelling documentation that users love Finally you ll discover ways to support users manage versions and communicate changes or the retirement of an API By the end of this API development book you ll have the confidence and skills to create API products that truly stand out in the market What you will learn Master each stage of the API lifecycle Discover technologies and protocols employed in building an API product Understand the different API design definition and validation techniques Generate an API server from a machine readable definition Understand how to set up and analyze API monitors Familiarize yourself with the different gateways for releasing an API Find out how to create an API portal that attracts users Gain insights into planning and communicating API retirement to users Who this book is for Building an API Product is a guide for product managers and software developers navigating the world of APIs to build programmable products You don t have to be an experienced professional to learn from this book as long as you have basic knowledge of internet technologies and how users interact with a product **Patterns for API**

Design Olaf Zimmermann,Mirko Stocker,Daniel Lubke,Uwe Zdun,Cesare Pautasso,2022-12-05 Proven Patterns for Designing Evolvable High Quality APIs For Any Domain Technology or Platform APIs enable breakthrough innovation and digital transformation in organizations and ecosystems of all kinds To create user friendly reliable and well performing APIs architects designers and developers need expert design guidance This practical guide cuts through the complexity of API conversations and their message contents introducing comprehensive guidelines and heuristics for designing APIs sustainably and specifying them clearly for whatever technologies or platforms you use In Patterns for API Design Simplifying Integration with Loosely Coupled Message Exchanges five expert architects and developers cover the entire API lifecycle from launching projects and establishing goals through defining requirements elaborating designs planning evolution and creating useful documentation They crystallize the collective knowledge of many practitioners into 44 API design patterns consistently explained with context pros and cons conceptual solutions and concrete examples To make their pattern language accessible they present a domain model a running case study decision narratives with pattern selection options and criteria and walkthroughs of real world projects applying the patterns in two different industries Identify and overcome API design challenges with patterns Size your endpoint types and operations adequately Design request and response messages and their representations Refine your message design for quality Plan to evolve your APIs Document and communicate your API contracts Combine patterns to solve real world problems and make the right tradeoffs This book provides a healthy mix of theory and practice containing numerous nuggets of deep advice but never losing the big picture grounded in real world experience and documented with academic rigor applied and practitioner community feedback

incorporated I am confident that it will serve the community well today and tomorrow Prof Dr Dr h c Frank Leymann
Managing Director Institute of Architecture of Application Systems University of Stuttgart

Api Quser Guide Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Api Quser Guide**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Api Quser Guide Introduction

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