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**Api Architecture
The Big Picture For
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Volume 2 Api
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~~Designing the Right Security
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(Cloud Next '19)~~ **Using Clean
Architecture for
Microservice APIs in Node.js
with MongoDB and Express** ~~A
Brief, Opinionated History
of the API~~

Architecture: The Stuff
That's Hard to Change -
Dylan Beattie Design
Patterns for Beginners - New
Version Enabling distributed
digital business with API-
first architecture (Google
Cloud Next '17) ~~Api
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Picture For Building APIs

Architecture spans the
bigger picture of APIs and

can be seen from several

perspectives: API

architecture may refer to

the architecture of the

complete solution consisting

not only of the API itself,

but also of an API client

such as a mobile app and

several other components.

~~API Architecture: The Big~~

~~Picture for Building APIs~~

~~(API ...)~~

What is API architecture?

Architecture spans the

bigger picture of APIs and

can be seen from several

perspectives: API

architecture may refer to

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the architecture of the complete solution consisting not only of the API itself, but also of an API client such as a mobile app and several other components.

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~~Architecture: The Big
Picture for Building ...~~

Looking for the big picture of building APIs? This book is for you! Building APIs that consumers love should certainly be the goal of any API initiative. However, it is easier said than done. It requires getting the architecture for your APIs right. This book equips you with both foundations and best practices for API

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~~API Architecture: The Big
Picture for Building APIs by~~

~~...~~

Architecture spans the bigger picture of APIs and can be seen from several perspectives: API architecture may refer to the architecture of the complete solution consisting not only of the API itself, but also of an API client such as a mobile app and several other components.

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Architecture : The Big
Picture ...~~

Architecture spans the bigger picture of APIs and

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can be seen from several perspectives: API architecture may refer to the architecture of the complete solution consisting not only of the API itself, but also of an API client such as a mobile app and several other components.

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Architecture spans the bigger picture of APIs and can be seen from several perspectives: - API architecture may refer to the architecture of the complete solution consisting not only of the API itself, but also of an API client

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several other components.

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Big Picture (Architecture)
GraphQL has been released
only as a specification.
This means that GraphQL is
in fact not more than a long
document that describes in
detail the behaviour of a
GraphQL server.

~~GraphQL Architecture & Big
Picture~~

What is API architecture?

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Architecture spans the bigger picture of APIs and can be seen from several perspectives: API

architecture may refer to the architecture of the complete solution consisting not only of the API itself, but also of an API client such as a mobile app and several other components.

~~API Architecture: The Big Picture for Building APIs~~

~~...~~

The Big Picture ¶ Most modern applications look more or less like this: ... Restructuring the application to support a security token service leads to the following

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Picture For Building APIs:
Such a design divides security concerns into two parts: ... It was built for mobile application scenarios right from the start and is designed to be API ...

~~The Big Picture —~~

~~IdentityServer4 1.0.0~~

~~documentation~~

The Big Picture for APIs.
API Architecture. Read more.
RESTful APIs. Design APIs according to best practices . Read more. Identity and Security for your APIs. OAuth and OpenID Connect. Read more. Build APIs like Facebook. GraphQL API Design.

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Looking for the big picture of building APIs? This book is for you! Building APIs that consumers love should certainly be the goal of any API initiative. However, it is easier said than done. It requires getting the architecture for your APIs right. This book equips you with both foundations and best practices for API architecture. This book is for you if you want to understand the big picture of API design and development, you want to define an API architecture, establish a platform for APIs or simply want to build

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APIs your consumers love. This book is NOT for you, if you are looking for a step-by-step guide for building APIs, focusing on every detail of the correct application of REST principles. In this case I recommend the book "API Design" of the API-University Series. What is API architecture? Architecture spans the bigger picture of APIs and can be seen from several perspectives: API architecture may refer to the architecture of the complete solution consisting not only of the API itself, but also of an API client such as a mobile app and

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several other components. API solution architecture explains the components and their relations within the software solution. API architecture may refer to the technical architecture of the API platform. When building, running and exposing not only one, but several APIs, it becomes clear that certain building blocks of the API, runtime functionality and management functionality for the API need to be used over and over again. An API platform provides an infrastructure for developing, running and managing APIs. API architecture may refer to the architecture of the API

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portfolio. The API portfolio contains all APIs of the enterprise and needs to be managed like a product. API portfolio architecture analyzes the functionality of the API and organizes, manages and reuses the APIs. API architecture may refer to the design decisions for a particular API proxy. To document the design decisions, API description languages are used. We explain the use of API description languages (RAML and Swagger) on many examples. This book covers all of the above perspectives on API architecture. However, to become useful, the

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architecture needs to be put into practice. This is why this book covers an API methodology for design and development. An API methodology provides practical guidelines for putting API architecture into practice. It explains how to develop an API architecture into an API that consumers love. A lot of the information on APIs is available on the web. Most of it is published by vendors of API products. I am always a bit suspicious of technical information pushed by product vendors. This book is different. In this book, a product-independent view on API

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architecture is presented.

The API-University Series is
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a modular series of books on
API-related topics. Each
book focuses on a particular
API topic, so you can select
the topics within APIs,
which are relevant for you.

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

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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

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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

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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.

Looking for Best Practices for RESTful APIs? This book is for you! Why? Because this book is packed with practical experience on what

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works best for Building API Design. You want to design APIs like a Pro? Use API description languages to both design APIs and develop APIs efficiently. The book introduces the two most common API description languages RAML, OpenAPI, and Swagger. Your company cares about its customers? Learn API product management with a customer-centric design and development approach for APIs. Learn how to manage APIs as a product and how to follow an API-first approach. Build APIs your customers love! You want to manage the complete API lifecycle? An API development methodology is

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proposed to guide you through the lifecycle: API inception, API design, API development, API

publication, API evolution, and maintenance. You want to build APIs right? This book shows best practices for REST design, such as the correct use of resources, URIs, representations, content types, data formats, parameters, HTTP status codes, and HTTP methods.

Your APIs connect to legacy systems? The book shows best practices for connecting APIs to existing backend systems. Your APIs connect to a mesh of microservices? The book shows the principles for designing

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APIs for scalable, autonomous microservices. You expect lots of traffic on your API? The book shows you how to achieve high performance, availability and maintainability. You want to build APIs that last for decades? We study API versioning, API evolution, backward- and forward-compatibility and show API design patterns for versioning. The API-University Series is a modular series of books on API-related topics. Each book focuses on a particular API topic, so you can select the topics within APIs, which are relevant for you.

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Want to build APIs like Facebook? Since Facebook's framework for building APIs, GraphQL, has become publicly available, this ambition seems to be within reach for many companies. And that is great. But first, let's learn what GraphQL really is and - maybe even more importantly - let's figure out how to apply GraphQL to build APIs that consumers love. Do you like to learn hands-on? In this book, we take a hands-on approach to learning GraphQL. We first explore the concepts of the two GraphQL languages using examples. Then we start writing some code for our first GraphQL API. We

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develop this API step by step, from creating a schema and resolving queries, over mocking data and connecting data sources all the way to developing mutations and setting up event subscriptions. Are your API consumers important to you? This book shows you how to apply a consumer-oriented design process for GraphQL APIs, so you can deliver what your consumers really want: an API that solves their problems and offers a great developer experience. Do you want to enable the API consumers so they can build great apps? This book explains the GraphQL query language, which allows the

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API consumers to retrieve data, write data and get notified when data changes. More importantly, you let them decide, which data they really need from the API. Do you want to make your API easy and intuitive to use? This book shows you how to use the GraphQL schema language to define a type system for your API, which serves as a reference documentation and helps your API consumers write queries that are syntactically correct. Do you want to profit from what has worked for others? This book provides a collection of best practices for GraphQL that have worked for other

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companies, e.g. regarding pagination, authentication and caching. REST vs.

GraphQL: Which one is better? GraphQL and REST are competing philosophies for building APIs. It is not in the scope of this book to compare or discuss the two approaches. The focus of this book is on a hands-on approach for learning GraphQL.

Got RESTful APIs? Great. API consumers love them. But today, such RESTful APIs are not enough for the evolving expectations of API consumers. Their apps need to be responsive, event-based and react to changes

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in near real-time. This results in a new set of requirements for the APIs, which power the apps. APIs now need to provide concepts such as events, notifications, triggers, and subscriptions. These concepts are not natively supported by the REST architectural style. In this book we show how to engineer RESTful APIs that support events with a webhook infrastructure. What are the alternatives to webhooks? We study several approaches for realizing events, such as Polling, Long Polling, Webhooks, HTTP Streaming, Server-Sent Events, WebSockets, WebSub

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and GraphQL Subscriptions.

All of these approaches have their advantages and

disadvantages. Can webhooks communicate in real-time? We study the non-functional requirements of a webhooks infrastructure, in areas such as security, reliability and developer experience. How do well-known API providers design webhooks? We examine the webhook infrastructure provided by GitHub, BitBucket, Stripe, Slack, and Intercom. With the best practices, case studies, and design templates provided in this book, we want to help you extend your API portfolio with a modern

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webhook infrastructure. So you can offer both APIs and events that developers love to use.

Do you want to know how OpenID Connect works? This book is for you! Exploring how OpenID Connect works in detail is the subject of this book. We take a bottom-up approach and first study all the elements (actors, endpoints, and tokens) of OpenID Connect. This puts us in an excellent position for the second step: to understand the various OpenID Connect Flows - how the actors, endpoints, and tokens are put together to transmit identity claims

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securely. Do you wonder why there are several OpenID Connect Flows? Whether we use OpenID Connect from a mobile app, a script in a browser or from a secure backend server, there is an appropriate OpenID Connect Flow with the right tradeoffs in security, functionality, and convenience for each of these scenarios. This book helps you to choose the right one. Do you think that these OpenID Connect Flows are confusing? You are not alone; the OpenID Connect Flows tend to get confusing. However, with this book, we make it clear and easy to understand: We visualize

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these flows and show how to choose the flow that is appropriate for a given scenario. A picture says more than a 1000 words - that is why we explain the OpenID Connect Flows using easy to understand sequence diagrams. Do you want to understand how JWT works? This book explains what a JSON Web Token (JWT) is, how it is used in OpenID Connect, how it is constructed, what data it contains, how to read it, and how to protect its contents. Do you wonder why there are so many tokens in OpenID Connect and how to use them? There are JWT, JWS, JWE, access tokens,

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refresh tokens, identity tokens, and authorization codes. This book helps you to make sense of them all. Using examples, we explore how the tokens are used, constructed, signed, and encrypted. Why is OpenID Connect so popular? If used in the right way, OpenID Connect is powerful, and everyone loves it: End-users don't need to signup and remember a new password Business owners enjoy high conversion rates Developers don't get any grey hair over securely storing credentials Do you want to increase the conversion rate of your app? Signup and login to a new app become so smooth and

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convenient that end-users are much more likely to try a new app. It is supported, e.g. by Google, Yahoo, or Microsoft. Would you like to manage no credentials but still have authenticated users? For us developers of web and mobile apps, these signup and login features are attractive, too: we do not need to manage user credentials, and we get a higher conversion rate resulting in more new customers. In effect, this means cutting costs and increasing the number of new customers for our apps. Which programming language do you use in the book? This is not a programming book,

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don't expect implementations with a specific programming language or library.

Instead, we focus on understanding OpenID Connect on a conceptual level, so we can design and architect apps that work with OpenID Connect. And OpenID Connect is the standard behind creating smooth login and signup experiences, increasing the customer signup rate, and creating highly converting apps.

The Definitive Guide to Java Platform, Enterprise Edition 7 Java EE 7: The Big Picture uniquely explores the entire Java EE 7 platform in an all-encompassing style while

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examining each tier of the platform in enough detail so that you can select the right technologies for specific project needs. In this authoritative guide, Java expert Danny Coward walks you through the code, applications, and frameworks that power the platform. Take full advantage of the robust capabilities of Java EE 7, increase your productivity, and meet enterprise demands with help from this Oracle Press resource. Explore the features of the Java servlet model and Java servlet API. Create dynamic web content with JavaServer Pages and JavaServer Faces. Build

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websites for nonbrowser
clients with JAX-RS Push
data to web clients using
Java WebSockets Secure web
applications Work with web
component APIs Maximize
enterprise beans for
multithreading, asynchronous
processes, transactions, and
more Access relational
databases with the Java
Database Connectivity APIs
and the Java Persistence API
Understand the packaging and
deployment mechanisms of
Java EE applications Work
with Java EE Contexts and
Dependency Injection Secure
enterprise beans in a Java
EE application Enable
parallel processing with
Java EE concurrency APIs

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As data management and integration continue to evolve rapidly, storing all your data in one place, such as a data warehouse, is no longer scalable. In the very near future, data will need to be distributed and available for several technological solutions. With this practical book, you'll learn how to migrate your enterprise from a complex and tightly coupled data landscape to a more flexible architecture ready for the modern world of data consumption. Executives, data architects, analytics teams, and compliance and governance staff will learn

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how to build a modern
scalable data landscape
using the Scaled
Architecture, which you can
introduce incrementally
without a large upfront
investment. Author Piethein
Strengtholt provides
blueprints, principles,
observations, best
practices, and patterns to
get you up to speed. Examine
data management trends,
including technological
developments, regulatory
requirements, and privacy
concerns Go deep into the
Scaled Architecture and
learn how the pieces fit
together Explore data
governance and data
security, master data

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data marketplaces, and the
importance of metadata
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making the most out of Azure
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design patterns available in
Microsoft Azure Develop
Azure cloud architecture and
a pipeline management system
Get to know the security
best practices for your
Azure deployment Who This
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Architects, DevOps
Engineers, or developers who
want to learn key
architectural aspects of the
Azure Cloud platform, then
this book is for you. Prior

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basic knowledge of the Azure
Cloud platform is good to
have. What You Will Learn
Familiarize yourself with
the components of the Azure
Cloud platform Understand
the cloud design patterns
Use enterprise security
guidelines for your Azure
deployment Design and
implement Serverless
solutions See Cloud
architecture and the
deployment pipeline
Understand cost management
for Azure solutions In
Detail Over the years, Azure
cloud services has grown
quickly, and the number of
organizations adopting Azure
for their cloud services is
also gradually increasing.

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Leading industry giants are finding that Azure fulfills their extensive cloud requirements. This book will guide you through all the important and tough decision-making aspects involved in architecting a Azure public cloud for your organization. The book starts with an extensive introduction to all the categories of designs available with Azure. These design patterns focus on different aspects of cloud such as high availability, data management, and so on. Gradually, we move on to various aspects such as building your cloud structure and architecture.

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It will also include a brief description about different types of services provided by Azure, such as Azure functions and Azure Analytics, which can prove beneficial for an organization. This book will cover each and every aspect and function required to develop a Azure cloud based on your organizational requirements. By the end of this book, you will be in a position to develop a full-fledged Azure cloud. Style and approach This hands-on guide to the Azure Cloud platform covers different architectural concepts and implementations necessary for any enterprise scale

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deployment. Microservices can have a positive impact on your enterprise—just ask Amazon and Netflix—but you can fall into many traps if you don't approach them in the right way. This practical guide covers the entire microservices landscape, including the principles, technologies, and methodologies of this unique, modular style of system building. You'll learn about the experiences of organizations around the globe that have successfully adopted microservices. In three parts, this book explains how these services

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work and what it means to build an application the Microservices Way. You'll explore a design-based approach to microservice architecture with guidance for implementing various elements. And you'll get a set of recipes and practices for meeting practical, organizational, and cultural challenges to microservice adoption. Learn how microservices can help you drive business objectives

Examine the principles, practices, and culture that define microservice architectures

Explore a model for creating complex systems and a design process for building a microservice

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architecture Learn the
fundamental design concepts
for individual microservices
Delve into the operational
elements of a microservices
architecture, including
containers and service
discovery Discover how to
handle the challenges of
introducing microservice
architecture in your
organization

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