

# CosmosAIGraph Architecture

GitHub: [aka.ms/caig](https://github.com/aka.ms/caig)

## Development Environment



fastapi  
uvicorn  
rdflib  
azure-cosmos  
pymongo  
openai  
semantic-kernel  
Docker  
docker compose



Docker images

## Container Registry



graph



web



Microsoft Fabric  
Optional mirroring to OneLake  
AI Logic Analysis and Optimization

Cosmos DB NoSQL or vCore  
Libraries (domain)  
vector search  
AiConversations:  
sessions  
prompts  
completions  
feedback

Azure OpenAI  
gpt-4 or gpt-4o  
completions  
text-embedding-ada-002  
embeddings



web browser

https

Azure Container App (ACA), or AKS  
Two Microservices – web and graph  
Scale and optimize each individually  
In-memory RDF graph

az CLI  
program  
w/Bicep

deploy



# [How To Query Graph Data In Azure Cosmos Db](#) [Microsoft Docs](#)

**José Rolando Guay Paz**



## **How To Query Graph Data In Azure Cosmos Db Microsoft Docs:**

**Serverless Integration Design Patterns with Azure** Abhishek Kumar, Srinivasa Mahendrakar, 2019-02-13 A practical guide that helps you progress to using modern integration methods and leverage new cloud capability models

**Key Features** Design critical hybrid integration solutions for your organization Gain in depth knowledge of how to build cloud native integration solutions Leverage cognitive services to build smart cloud solutions

**Book Description** With more enterprises adapting cloud based and API based solutions application integration has become more relevant and significant than ever before Parallely Serverless Integration has gained popularity as it helps agile organizations to build integration solutions quickly without having to worry about infrastructure costs With Microsoft Azure's serverless offerings such as Logic Apps Azure Functions API Management Azure Event Grid and Service Bus organizations can build powerful secure and scalable integration solutions with ease The primary objective of this book is to help you to understand various serverless offerings included within Azure Integration Services taking you through the basics and industry practices and patterns This book starts by explaining the concepts of services such as Azure Functions Logic Apps and Service Bus with hands on examples and use cases After getting to grips with the basics you will be introduced to API Management and building B2B solutions using Logic Apps Enterprise Integration Pack This book will help readers to understand building hybrid integration solutions and touches upon Microsoft Cognitive Services and leveraging them in modern integration solutions Industry practices and patterns are brought to light at appropriate opportunities while explaining various concepts What you will learn Learn about the design principles of Microsoft Azure Serverless Integration Get insights into Azure Functions Logic Apps Azure Event Grid and Service Bus Secure and manage your integration endpoints using Azure API Management Build advanced B2B solutions using Logic Apps Enterprise Integration Pack Monitor integration solutions using tools available on the market Discover design patterns for hybrid integration

**Who this book is for** Serverless Integration Design Patterns with Azure is for you if you are a solution architect or integration professional aiming to build complex cloud solutions for your organization Developers looking to build next level hybrid or cloud solutions will also find this book useful Prior programming knowledge is necessary

**Software Architecture with C# 10 and .NET 6** Gabriel Baptista, Francesco Abbruzzese, 2022-03-15 Design scalable and high performance enterprise applications using the latest features of C 10 and NET 6

**Key Features** Gain comprehensive software architecture knowledge and the skillset to create fully modular apps Solve scalability problems in web apps using enterprise architecture patterns Master new developments in front end architecture and the application of AI for software architects

**Book Description** Software architecture is the practice of implementing structures and systems that streamline the software development process and improve the quality of an app This fully revised and expanded third edition featuring the latest features of NET 6 and C 10 enables you to acquire the key skills knowledge and best practices required to become an effective software architect

**Software Architecture with C 10 and NET 6 Third Edition** features new chapters that describe

the importance of the software architect microservices with ASP NET Core and analyzing the architectural aspects of the front end in the applications including the new approach of NET MAUI It also includes a new chapter focused on providing a short introduction to artificial intelligence and machine learning using ML NET and updated chapters on Azure Kubernetes Service EF Core and Blazor You will begin by understanding how to transform user requirements into architectural needs and exploring the differences between functional and non functional requirements Next you will explore how to choose a cloud solution for your infrastructure taking into account the factors that will help you manage a cloud based app successfully Finally you will analyze and implement software design patterns that will allow you to solve common development problems By the end of this book you will be able to build and deliver highly scalable enterprise ready apps that meet your business requirements What you will learn Use proven techniques to overcome real world architectural challenges Apply architectural approaches such as layered architecture Leverage tools such as containers to manage microservices effectively Get up to speed with Azure features for delivering global solutions Program and maintain Azure Functions using C 10 Understand when it is best to use test driven development TDD Implement microservices with ASP NET Core in modern architectures Enrich your application with Artificial Intelligence Get the best of DevOps principles to enable CI CD environments Who this book is for This book is for engineers and senior software developers aspiring to become architects or looking to build enterprise applications with the NET Stack Basic familiarity with C and NET is required to get the most out of this book

**Software Architecture with C# 9 and .NET 5** Gabriel Baptista, Francesco

Abbruzzese, 2020-12-28 Design scalable and high performance enterprise applications using the latest features of C 9 and NET 5 Key Features Gain fundamental and comprehensive software architecture knowledge and the skillset to create fully modular apps Design high performance software systems using the latest features of NET 5 and C 9 Solve scalability problems in web apps using enterprise architecture patterns Book Description Software architecture is the practice of implementing structures and systems that streamline the software development process and improve the quality of an app This fully revised and expanded second edition featuring the latest features of NET 5 and C 9 enables you to acquire the key skills knowledge and best practices required to become an effective software architect This second edition features additional explanation of the principles of Software architecture including new chapters on Azure Service Fabric Kubernetes and Blazor It also includes more discussion on security microservices and DevOps including GitHub deployments for the software development cycle You will begin by understanding how to transform user requirements into architectural needs and exploring the differences between functional and non functional requirements Next you will explore how to carefully choose a cloud solution for your infrastructure along with the factors that will help you manage your app in a cloud based environment Finally you will discover software design patterns and various software approaches that will allow you to solve common problems faced during development By the end of this book you will be able to build and deliver highly scalable enterprise

ready apps that meet your organization's business requirements What you will learn Use different techniques to overcome real world architectural challenges and solve design consideration issues Apply architectural approaches such as layered architecture service oriented architecture SOA and microservices Leverage tools such as containers Docker Kubernetes and Blazor to manage microservices effectively Get up to speed with Azure tools and features for delivering global solutions Program and maintain Azure Functions using C# 9 and its latest features Understand when it is best to use test driven development TDD as an approach for software development Write automated functional test cases Get the best of DevOps principles to enable CI/CD environments Who this book is for This book is for engineers and senior software developers aspiring to become architects or looking to build enterprise applications with the .NET Stack Basic familiarity with C# and .NET is required to get the most out of this book *Apps and Services with .NET 7* Mark J. Price, 2022-11-15 Bestselling author Mark Price is back to guide you through the coolest and most common technologies a .NET developer should know Blazor .NET MAUI gRPC GraphQL SQL Server Cosmos DB OData SignalR Azure Functions and more Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Build services using a variety of technologies including Web API OData gRPC GraphQL SignalR and Azure Functions Learn how to use specialized libraries to improve all aspects of your applications including performance and localization Leverage .NET MAUI to develop cross platform desktop and mobile apps with ease Book Description *Apps and Services with .NET 7* is for .NET 6 and .NET 7 developers who want to kick their C# and .NET understanding up a gear by learning the practical skills and knowledge they need to build real world applications and services It covers specialized libraries that will help you monitor and improve performance secure your data and applications and internationalize your code and apps With chapters that put a variety of technologies into practice including Web API OData gRPC GraphQL SignalR and Azure Functions this book will give you a broader scope of knowledge than other books that often focus on only a handful of .NET technologies It covers the latest developments libraries and technologies that will help keep you up to date You'll also leverage .NET MAUI to develop mobile apps for iOS and Android as well as desktop apps for Windows and macOS What you will learn Learn how to build more efficient secure and scalable apps and services Leverage specialized .NET libraries to improve your applications Implement popular third party libraries like Serilog and FluentValidation Build cross platform apps with .NET MAUI and integrate with native mobile features Get familiar with a variety of technologies for implementing services like gRPC and GraphQL Explore Blazor WebAssembly and use open source Blazor component libraries Store and manage data locally and in the cloud with SQL Server and Cosmos DB Who this book is for This book is for .NET developers interested in exploring more specialized libraries and implementation fundamentals behind building services and apps You'll need to know your way around .NET and C# quite well before you can dive in so if you want to work your way up to this book pick up Mark's other .NET book *C# 11 and .NET 7 Modern Cross Platform Development Fundamentals* first [Professional C# and .NET](#) Christian Nagel, 2021-08-31 Get the latest coverage of the newest features

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**Apps and Services with .NET 8** Mark J. Price, 2023-12-12 Bestselling author Mark Price is back to guide you through the latest and most common technologies a NET developer should know Blazor Full Stack ASP NET Core MVC ASP NET Core Minimal APIs NET MAUI gRPC GraphQL SQL Server Cosmos DB SignalR Azure Functions and more Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Use specialized libraries to improve all aspects of your apps including performance security and localization Harness the full potential of NET using cloud native data stores like Cosmos DB and unlock scalability performance and resilience in your service implementations Unleash the capabilities of Blazor Full Stack and NET MAUI to develop stunning truly cross platform apps for web and mobile Book Description Elevate your practical C and NET skills to the next level with this new edition of Apps and Services with NET 8 With chapters that put a variety of technologies into practice including Web API gRPC GraphQL and SignalR this book will give you a broader scope of knowledge than other books that often focus on only a handful of NET technologies You ll dive into the new unified model for Blazor Full Stack and leverage NET MAUI to develop mobile and desktop apps This new edition introduces the latest enhancements including the seamless implementation of web services with ADO NET SqlClient s native Ahead of Time AOT support Popular library coverage now includes Humanizer and Noda Time There s also a brand new chapter that delves into service architecture caching queuing and robust background services By the end of this book you ll have a wide range of best practices and deep insights under your belt to help you build rich apps and efficient services What you will learn Familiarize yourself with a variety of technologies to implement services such as gRPC and GraphQL Store and manage data locally and cloud natively with SQL Server and Cosmos DB Use ADO NET SqlClient to implement web services with native AOT publish support Leverage Dapper for improved performance over EF Core Implement popular third party libraries such as Serilog FluentValidation Humanizer and Noda Time Explore the new

unified hosting model of Blazor Full Stack Who this book is for This book is for NET developers interested in exploring more specialized libraries and implementation fundamentals behind building services and apps You ll need to know your way around NET and C quite well before you can dive in so if you want to work your way up to this book you can pick up Mark s other NET book C 12 and NET 8 Modern Cross Platform Development Fundamentals first

**Data Engineering for Machine Learning Pipelines** Pavan Kumar Narayanan,2024-09-27 This book covers modern data engineering functions and important Python libraries to help you develop state of the art ML pipelines and integration code The book begins by explaining data analytics and transformation delving into the Pandas library its capabilities and nuances It then explores emerging libraries such as Polars and CuDF providing insights into GPU based computing and cutting edge data manipulation techniques The text discusses the importance of data validation in engineering processes introducing tools such as Great Expectations and Pandera to ensure data quality and reliability The book delves into API design and development with a specific focus on leveraging the power of FastAPI It covers authentication authorization and real world applications enabling you to construct efficient and secure APIs using FastAPI Also explored is concurrency in data engineering examining Dask s capabilities from basic setup to crafting advanced machine learning pipelines The book includes development and delivery of data engineering pipelines using leading cloud platforms such as AWS Google Cloud and Microsoft Azure The concluding chapters concentrate on real time and streaming data engineering pipelines emphasizing Apache Kafka and workflow orchestration in data engineering Workflow tools such as Airflow and Prefect are introduced to seamlessly manage and automate complex data workflows What sets this book apart is its blend of theoretical knowledge and practical application a structured path from basic to advanced concepts and insights into using state of the art tools With this book you gain access to cutting edge techniques and insights that are reshaping the industry This book is not just an educational tool It is a career catalyst and an investment in your future as a data engineering expert poised to meet the challenges of today s data driven world

**What You Will Learn** Elevate your data wrangling jobs by utilizing the power of both CPU and GPU computing and learn to process data using Pandas 2 0 Polars and CuDF at unprecedented speeds Design data validation pipelines construct efficient data service APIs develop real time streaming pipelines and master the art of workflow orchestration to streamline your engineering projects Leverage concurrent programming to develop machine learning pipelines and get hands on experience in development and deployment of machine learning pipelines across AWS GCP and Azure

**Who This Book Is For** Data analysts data engineers data scientists machine learning engineers and MLOps specialists

**Python for Programmers** Paul Deitel,Harvey Deitel,2019-03-15 The professional programmer s Deitel guide to Python with introductory artificial intelligence case studies Written for programmers with a background in another high level language Python for Programmers uses hands on instruction to teach today s most compelling leading edge computing technologies and programming in Python one of the world s most popular and fastest growing languages Please read the

Table of Contents diagram inside the front cover and the Preface for more details In the context of 500 real world examples ranging from individual snippets to 40 large scripts and full implementation case studies you ll use the interactive IPython interpreter with code in Jupyter Notebooks to quickly master the latest Python coding idioms After covering Python Chapters 1 5 and a few key parts of Chapters 6 7 you ll be able to handle significant portions of the hands on introductory AI case studies in Chapters 11 16 which are loaded with cool powerful contemporary examples These include natural language processing data mining Twitter for sentiment analysis cognitive computing with IBM Watson™ supervised machine learning with classification and regression unsupervised machine learning with clustering computer vision through deep learning and convolutional neural networks deep learning with recurrent neural networks big data with Hadoop Spark™ and NoSQL databases the Internet of Things and more You ll also work directly or indirectly with cloud based services including Twitter Google Translate™ IBM Watson Microsoft Azure OpenMapQuest PubNub and more Features 500 hands on real world live code examples from snippets to case studies IPython code in Jupyter Notebooks Library focused Uses Python Standard Library and data science libraries to accomplish significant tasks with minimal code Rich Python coverage Control statements functions strings files JSON serialization CSV exceptions Procedural functional style and object oriented programming Collections Lists tuples dictionaries sets NumPy arrays pandas Series DataFrames Static dynamic and interactive visualizations Data experiences with real world datasets and data sources Intro to Data Science sections AI basic stats simulation animation random variables data wrangling regression AI big data and cloud data science case studies NLP data mining Twitter IBM Watson™ machine learning deep learning computer vision Hadoop Spark™ NoSQL IoT Open source libraries NumPy pandas Matplotlib Seaborn Folium SciPy NLTK TextBlob spaCy Textatistic Tweepy scikit learn Keras and more Accompanying code examples are available here [http://ptgmedia.pearsoncmg.com/imprint\\_downloads/informit/bookreg/9780135224335\\_9780135224335\\_examples.zip](http://ptgmedia.pearsoncmg.com/imprint_downloads/informit/bookreg/9780135224335_9780135224335_examples.zip) Register your product for convenient access to downloads updates and or corrections as they become available See inside book for more information

**Microsoft Azure Cosmos DB Revealed** José Rolando Guay Paz, 2018-01-17 Learn the main features of Azure Cosmos DB and how to use Microsoft's multi model database service as a data store for mission critical applications The clear examples help in writing your own applications to take advantage of Cosmos DB's multi model globally distributed elastic database Simple step by step instructions show how to resolve common and uncommon scenarios involving Azure Cosmos DB and scenarios such as delivering extremely low response times in the order of milliseconds and scaling rapidly and globally Microsoft Azure Cosmos DB Revealed demonstrates a multitude of possible implementations to get you started This book guides you toward best practices to get the most out of Microsoft's Cosmos DB service Later chapters in the book cover advanced implementation features helping you master important elements such as securing the database querying and using various APIs What You ll Learn Set up a development environment to work with Azure Cosmos DB Configure Azure Cosmos DB in a production

environment with multi region distribution Query using all APIs including SQL JavaScript MongoDB and Graph Work with the Azure Cosmos DB NET SDK in an application you built Access Cosmos DB from web applications created in NET Who This Book Is For Developers who build applications to be hosted in Microsoft Azure whether they use PaaS or IaaS No previous knowledge of Azure Cosmos DB is assumed but readers must be familiar with developing applications in Microsoft Visual Studio

DP-420: Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Certification Exam Guide Anand Vemula, The book delves into Azure Cosmos DB exploring its key features and functionalities that empower developers to build scalable globally distributed applications The content covers various Cosmos DB APIs including the SQL API Table API MongoDB API and Gremlin API explaining how each is tailored for different types of data models such as document key value graph and time series data The book emphasizes Cosmos DB s unique ability to support multi region replication offering automatic data synchronization and ensuring high availability and low latency across the globe In depth coverage is provided on topics like consistency levels including strong consistency and bounded staleness and how these levels impact performance Readers learn about Cosmos DB s partitioning strategies role based access control RBAC conflict resolution policies and how the platform ensures data durability and security across multiple regions The book also details the Cosmos DB Emulator which helps developers simulate a local Cosmos DB environment for testing and how to scale applications efficiently using features like throughput control It highlights the use of Cosmos DB for enterprise applications including migrating data from on premises SQL databases using Azure services and offers insights into tools for managing Cosmos DB instances effectively Overall the book serves as a comprehensive guide for developers and architects looking to leverage the full potential of Azure Cosmos DB to build resilient high performance applications in the cloud

**Cosmos DB for MongoDB Developers** Manish Sharma, 2018-08-09 Learn Azure Cosmos DB and its MongoDB API with hands on samples and advanced features such as the multi homing API geo replication custom indexing TTL request units RU consistency levels partitioning and much more Each chapter explains Azure Cosmos DB s features and functionalities by comparing it to MongoDB with coding samples Cosmos DB for MongoDB Developers starts with an overview of NoSQL and Azure Cosmos DB and moves on to demonstrate the difference between geo replication of Azure Cosmos DB compared to MongoDB Along the way you ll cover subjects including indexing partitioning consistency and sizing all of which will help you understand the concepts of read units and how this calculation is derived from an existing MongoDB s usage The next part of the book shows you the process and strategies for migrating to Azure Cosmos DB You will learn the day to day scenarios of using Azure Cosmos DB its sizing strategies and optimizing techniques for the MongoDB API This information will help you when planning to migrate from MongoDB or if you would like to compare MongoDB to the Azure Cosmos DB MongoDB API before considering the switch What You Will Learn Migrate to MongoDB and understand its strategies Develop a sample application using MongoDB s client driver Make use of sizing best practices and performance optimization scenarios

Optimize MongoDB's partition mechanism and indexing Who This Book Is For MongoDB developers who wish to learn Azure Cosmos DB It specifically caters to a technical audience working on MongoDB **Query Processing Over Graph-structured Data on the Web** Maribel Acosta Deibe,2018 **Microsoft Graph** ,1991 Microsoft Graph Microsoft,1991 **Microsoft Graph** Microsoft Corporation (Redmond, Wash.),1991 **Microsoft Graph** ,1992 Microsoft graph basics Working with a datasheet Working with a chart

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