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KEY=AND - ANTON KENDAL

Architecture Solutions for E-Learning Systems

IGI Global "**This book provides fundamental research on the architecture of learning technology systems, discussing such issues as the common structures in LTS and solutions for specific forms such as knowledge-based, distributed, or adaptive applications of e-learning. Researchers, and scholars in the fields of learning content software development, computing and educational technologies, and e-learning will find it an invaluable resource**"--Provided by publisher.

Solutions Architect's Handbook

Kick-start your career as a solutions architect by learning architecture design principles and strategies

Packt Publishing Ltd From fundamentals and design patterns to the different strategies for creating secure and reliable architectures in AWS cloud, learn everything you need to become a successful solutions architect Endorsements "For new or existing solutions architects looking to keep their skills sharp in the cloud era, this book hits all the key areas." -Rajesh Sheth, GM, Messaging and Streaming, AWS "...the go-to guide for understanding various functions in the age of cloud computing." -Rohan Karmarkar, Director, Solutions Architecture, AWS "...you will find very important nuggets of knowledge that will help you be a successful solutions architect, and open up a new world of infinite possibilities!" -Kamal Arora, Senior Manager, Solutions Architecture, AWS Book Description Becoming a solutions architect requires a hands-on approach, and this edition of the Solutions Architect's Handbook brings exactly that. This handbook will teach you how to create robust, scalable, and fault-tolerant solutions and next-generation architecture designs in a cloud environment. It will also help you build effective product strategies for your business and implement them from start to finish. This new edition features additional chapters on disruptive technologies, such as Internet of Things (IoT), quantum computing, data engineering, and machine learning. It also includes updated discussions on cloud-native architecture, blockchain data storage, and mainframe modernization with public cloud. The Solutions Architect's Handbook provides an understanding of solution architecture and how it fits into an agile enterprise environment. It will take you through the journey of solution architecture design by providing detailed knowledge of design pillars, advanced design patterns, anti-patterns, and the cloud-native aspects of modern software design. By the end of this handbook, you'll have learned the techniques needed to create efficient architecture designs that meet your business requirements. What you will learnExplore the various roles of a solutions architect in the enterprise landscapImplement key design principles and patterns to build high-performance cost-effective solutionsChoose the best strategies to secure your architectures and increase their availabilityModernize legacy applications with the help of cloud integrationUnderstand how big data processing, machine learning, and IoT fit into modern

architectureIntegrate a DevOps mindset to promote collaboration, increase operational efficiency, and streamline productionWho this book is for This book is for software developers, system engineers, DevOps engineers, architects, and team leaders who already work in the IT industry and aspire to become solutions architect professionals. Existing solutions architects who want to expand their skillset or get a better understanding of new technologies will also learn valuable new skills. To get started, you'll need a good understanding of the real-world software development process and general programming experience in any language.

IT Architecture ð Essential Practice for IT Business Solutions

Lulu.com This book is about IT architecture set against the background of the practical insights gained at HP (Hewlett-Packard) since 1986 and formalized in the HP methodology for IT Strategy and Architecture (ITSA). The important message is that architecture is used to solve problems or exploit opportunities and is not used for the sake of architecture. Core to this is the concept of a seamless chain of justification that unites stakeholders in defining, reinforcing, and supporting the single best fitting IT business solution. This book teaches the IT architecture practitioner how to align the different views and interests of these stakeholders into coherent IT architecture artifacts by permeating the business, functional, technical, and implementation perspectives.

Designing Security Architecture Solutions

John Wiley & Sons The first guide to tackle security architecture at the softwareengineering level Computer security has become a critical business concern, and, assuch, the responsibility of all IT professionals. In thisgroundbreaking book, a security expert with AT&T Business'srenowned Network Services organization explores system securityarchitecture from a software engineering perspective. He explainswhy strong security must be a guiding principle of the developmentprocess and identifies a common set of features found in mostsecurity products, explaining how they can and should impact thedevelopment cycle. The book also offers in-depth discussions ofsecurity technologies, cryptography, database security, applicationand operating system security, and more.

Solution Architecture with .NET

Learn solution architecture principles and design techniques to build modern .NET solutions

Packt Publishing Ltd Learn about the responsibilities of a .NET solution architect and explore solution architecture principles, DevOps solutions, and design techniques and standards with hands-on examples of design patterns **Key Features** Find out what are the essential personality traits and responsibilities of a solution architect Become well-versed with architecture principles and modern design patterns with hands-on examples Design modern web solutions and make the most of Azure DevOps to automate your development life cycle **Book Description** Understanding solution architecture is a must to build and integrate robust systems to meet your client's needs. This makes it crucial for a professional .NET software engineer to learn the key skills of a .NET solution architect to create a unique digital journey and build solutions for a wide range of industries, from strategy and design to implementation. With this handbook, developers working with the .NET technology will be able to put their knowledge to work. The book takes a hands-on approach to help you become an effective solution architect. You'll start by learning the principles of the software development life cycle (SDLC), the roles and responsibilities of a .NET solution architect, and what makes a great .NET solution architect. As you make progress through the chapters, you'll understand the principles of solution architecture and how to design a solution, and explore designing layers and microservices. You'll complete your learning journey by uncovering modern design patterns and techniques for designing and building digital solutions. By the end of this book, you'll have learned how to architect your modern web solutions with ASP.NET Core and Microsoft Azure and be ready to automate your development life cycle with Azure DevOps. What you will learn **Understand the role and core responsibilities of a .NET solution architect** Study popular UML (Unified Modeling Language) diagrams for solution architecture **Work with modern design patterns with the help of hands-on examples** Become familiar with microservices and designing layers **Discover how to design modern web solutions** Automate your development life cycle with Azure DevOps **Who this book is for** This book is for intermediate and advanced .NET developers and software engineers who want to advance their careers and expand their knowledge of solution architecture and design

principles. Beginner or intermediate-level solution architects looking for tips and tricks to build large-scale .NET solutions will find this book useful.

Solutions Architect's Handbook

Kick-start your solutions architect career by learning architecture design principles and strategies

Packt Publishing Ltd This book will show you how to create robust, scalable, highly available and fault-tolerant solutions by learning different aspects of Solution architecture and next-generation architecture design in the Cloud environment.

Advances in Practical Applications of Cyber-Physical Multi-Agent Systems: The PAAMS Collection

15th International Conference, PAAMS 2017, Porto, Portugal, June 21-23, 2017, Proceedings

Springer This book constitutes the refereed proceedings of the 15th International Conference on Practical Applications of Scalable Multi-Agent Systems, PAAMS 2017, held in Porto, Portugal, in June 2017. The 11 revised full papers, 11 short papers, and 17 Demo papers were carefully reviewed and selected from 63 submissions. The papers report on the application and validation of agent-based models, methods, and technologies in a number of key application areas, including day life and real world, energy and networks, human and trust, markets and bids, models and tools, negotiation and conversation, scalability and resources.

Software Architecture with Python

Packt Publishing Ltd Architect and design highly scalable, robust, clean, and highly performant applications in Python
About This Book Identify design issues and make the necessary adjustments to achieve improved performance
Understand practical architectural quality attributes from the perspective of a practicing engineer and architect using Python
Gain knowledge of architectural principles and how they can be used to provide accountability and rationale for architectural decisions
Who This Book Is For This book is for experienced Python developers who are aspiring to become the architects of enterprise-grade applications or software architects who would like to leverage Python to create effective blueprints of applications.
What You Will Learn Build programs with the right architectural attributes
Use Enterprise Architectural Patterns to solve scalable problems on the Web
Understand design patterns from a Python perspective
Optimize the performance testing tools in Python
Deploy code in remote environments or on the Cloud using Python
Secure architecture applications in Python
In Detail This book starts off by explaining how Python fits into an application architecture. As you move along, you will understand the architecturally significant demands and how to determine them. Later, you'll get a complete understanding of the different architectural quality requirements that help an architect to build a product that satisfies business needs, such as maintainability/reusability, testability, scalability, performance, usability, and security. You will use various techniques such as incorporating DevOps, Continuous Integration, and more to make your application robust. You will understand when and when not to use object orientation in your applications. You will be able to think of the future and design applications that can scale proportionally to the growing business. The focus is on building the business logic based on the business process documentation and which frameworks are to be used when. We also cover some important patterns that are to be taken into account while solving design problems as well as those in relatively new domains such as the Cloud. This book will help you understand the ins and outs of Python so that you can make those critical design decisions that not just live up to but also surpass the expectations of your clients. Style and approach Filled with examples and use cases, this guide takes a no-nonsense approach to help you with everything it takes to become a successful software architect.

Architecture In Use

Routledge This unique book discusses programming, design and building evaluation providing a 'joined up' approach to building design. By linking the functional and architectonic qualities of a building, the authors show the practical implications of the utility value of buildings. Starting by looking at how the relationship between form and function has been dealt with by different approaches to architecture from a historical perspective, it goes on to discuss how the desired functional quality and utility value of a building can be expressed in a brief and given a physical form by the architect. Finally, it advises on how to carry out post-occupancy evaluation and provides the architect with methods and techniques for testing whether the intended utility value of a building has been achieved.

Latest AWS Amazon Certified Solutions Architect - Professional SAP-C01 Exam Questions and Answers

UPTODATE EXAMS Exam Name : AWS Amazon Certified Solutions Architect - Professional Exam Code : SAP-C01 Edition : Latest Verison (100% valid and stable) Number of Questions : 708 Questions with Answer

IBM Security Solutions Architecture for Network, Server and Endpoint

IBM Redbooks Threats come from a variety of sources. Insider threats, as well as malicious hackers, are not only difficult to detect and prevent, but many times the authors of these threats are using resources without anybody being aware that those threats are there. Threats would not be harmful if there were no vulnerabilities that could be exploited. With IT environments becoming more complex every day, the challenges to keep an eye on all potential weaknesses are skyrocketing. Smart methods to detect threats and vulnerabilities, as well as highly efficient approaches to analysis, mitigation, and remediation, become necessary to counter a growing number of attacks against networks, servers, and endpoints in every organization. In this IBM® Redbooks® publication, we examine the aspects of the

holistic Threat and Vulnerability Management component in the Network, Server and Endpoint domain of the IBM Security Framework. We explain the comprehensive solution approach, identify business drivers and issues, and derive corresponding functional and technical requirements, which enables us to choose and create matching security solutions. We discuss IBM Security Solutions for Network, Server and Endpoint to effectively counter threats and attacks using a range of protection technologies and service offerings. Using two customer scenarios, we apply the solution design approach and show how to address the customer requirements by identifying the corresponding IBM service and software products.

eWork and eBusiness in Architecture, Engineering and Construction

Proceedings of the 5th European Conference on Product and Process Modelling in the Building and Construction Industry - ECPPM 2004, 8-10 September 2004, Istanbul, Turkey

Taylor & Francis Biannually since 1994, the European Conference on Product and Process Modelling in the Building and Construction Industry has provided a review of research, given valuable future work outlooks, and provided a communication platform for future co-operative research and development at both European and global levels. This volume, of special interest t

Integrating Innovation in Architecture Design, Methods and Technology for Progressive Practice and Research

John Wiley & Sons Today's design professionals are faced with challenges on all fronts. They need not only to keep in step with rapid technological changes and the current revolution in design and construction processes, but to lead the industry. This means actively seeking to innovate through design research, raising the bar in building performance and adopting advanced technologies in their practice. In a constant drive to improve design processes and services, how is it possible to implement innovations? And, moreover, to assimilate them in such a way that design, methods and technologies remain fully integrated? Focusing on innovations in architecture, this book covers new materials and design methods, advances in computational design practices, innovations in building technologies and construction techniques, and the integration of research with design. Moreover, it discusses strategies for integrating innovation into design practices, risks and economic impacts. Through numerous case studies, it illustrates how innovations have been implemented on actual architectural projects, and how design and technical innovations are used to improve building performance, as well as design practices in cutting-edge architectural and engineering firms. Projects of all scales and building types are discussed in the book, ranging from small-scale installations, academic and commercial buildings to large-scale mixed-use, healthcare, civic, academic, scientific research and sports facilities. Work from design firms around the globe and of various scales is discussed in the book, including for example Asymptote Architecture, cepezed, CO Architects, Consarc Architects, FAAB Architektura, Gerber Architekten, HOK, IDOM-ACXT, MAD Architects, Morphosis Architects, SDA | Synthesis Design + Architecture, Studiotrope, Perkins+Will, Richter Dahl Rocha & Associés, Snøhetta, Rob Ley Studio, Trahan Architects, UNStudio and Zaha Hadid Architects, among many others.

Scientific and Technical Aerospace Reports

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Fundamentals of Software Architecture

An Engineering Approach

"O'Reilly Media, Inc." **Salary surveys worldwide regularly place software architect in the top 10 best jobs, yet no real guide exists to help developers become architects. Until now. This book provides the first comprehensive overview of software architecture's many aspects. Aspiring and existing architects alike will examine architectural characteristics, architectural patterns, component determination, diagramming and presenting architecture, evolutionary architecture, and many other topics. Mark Richards and Neal Ford—hands-on practitioners who have taught software architecture classes professionally for years—focus on architecture principles that apply across all technology stacks. You'll explore software architecture in a modern light, taking into account all the innovations of the past decade. This book examines:** Architecture patterns: The technical basis for many architectural decisions Components: Identification, coupling, cohesion, partitioning, and granularity Soft skills: Effective team management, meetings, negotiation, presentations, and more Modernity: Engineering practices and operational approaches that have changed radically in the past few years Architecture as an engineering discipline: Repeatable results, metrics, and concrete valuations that add rigor to software architecture

Inland Architect and News Record

Nature

The Machine Learning Solutions Architect Handbook

Create machine learning platforms to run solutions in an enterprise setting

[Packt Publishing Ltd](#) **Build highly secure and scalable machine learning platforms to support the fast-paced adoption of machine learning solutions** **Key Features** Explore different ML tools and frameworks to solve large-scale machine learning challenges in the cloud Build an efficient data science environment for data exploration, model building, and model training Learn how to implement bias detection, privacy, and explainability in ML model development **Book Description** When equipped with a highly scalable machine learning (ML) platform, organizations can quickly scale the delivery of ML products for faster business value realization. There is a huge demand for skilled ML solutions architects in different industries, and this handbook will help you master the design patterns, architectural considerations, and the latest technology insights you'll need to become one. You'll start by understanding ML fundamentals and how ML can be applied to solve real-world business problems. Once you've explored a few leading problem-solving ML algorithms, this book will help you tackle data management and get the most out of ML libraries such as TensorFlow and PyTorch. Using open source technology such as Kubernetes/Kubeflow to build a data science environment and ML pipelines will be covered next, before moving on to building an enterprise ML architecture using Amazon Web Services (AWS). You'll also learn about security and governance considerations, advanced ML engineering techniques, and how to apply bias detection, explainability, and privacy in ML model development. And finally, you'll get acquainted with AWS AI services and their applications in real-world use cases. By the end of this book, you'll be able to design and build an ML platform to support common use cases and architecture patterns like a true professional. What you will learn **Apply ML methodologies to solve business problems** **Design a practical enterprise ML platform architecture** **Implement MLOps for ML workflow automation** **Build an end-to-end data management architecture using AWS** **Train**

large-scale ML models and optimize model inference latency Create a business application using an AI service and a custom ML model Use AWS services to detect data and model bias and explain models Who this book is for This book is for data scientists, data engineers, cloud architects, and machine learning enthusiasts who want to become machine learning solutions architects. You'll need basic knowledge of the Python programming language, AWS, linear algebra, probability, and networking concepts before you get started with this handbook.

On Optimization in Computer Aided Architectural Design

This report examines the role of computers in the provision of information for architectural design decision making and compares the potential contributions of simulation, generation and optimization techniques. It argues that optimization models are particularly well suited to the provision of design information because they produce results which are prescriptive, express design options and address the problems of the stability and sensitivity of solutions to change over time. The difficulties posed by the multiple objectives which characterize architectural design problems are discussed and some solution approaches are described. The report concludes that optimization concepts offer a powerful approach to design decision making and warrant much more research activity in the development of techniques and models for application in architecture.

Enterprise Security Architecture Using IBM Tivoli Security Solutions

IBM Redbooks This IBM Redbooks publication reviews the overall Tivoli Enterprise Security Architecture. It focuses on the integration of audit and compliance, access control, identity management, and federation throughout extensive e-business enterprise implementations. The available security product diversity in the marketplace challenges everyone in charge of designing single secure solutions or an overall enterprise security architecture. With Access Manager, Identity Manager, Federated Identity Manager, Security Compliance Manager, Security Operations Manager, Directory Server, and Directory Integrator, Tivoli offers a complete set of products designed to address these challenges. This book describes the major logical and physical components of each of the Tivoli products. It also depicts several e-business scenarios with different security challenges and requirements. By matching the desired Tivoli security

product criteria, this publication describes the appropriate security implementations that meet the targeted requirements. This book is a valuable resource for security officers, administrators, and architects who want to understand and implement enterprise security following architectural guidelines.

Emergence of Cyber Physical System and IoT in Smart Automation and Robotics

Computer Engineering in Automation

Springer Nature **Cyber-Physical Systems (CPS) integrate computing and communication capabilities by monitoring and controlling the physical systems via embedded hardware and computers. This book brings together new and futuristic findings on IoT, Cyber Physical Systems and Robotics leading towards Automation and solving issues of various critical applications in Real-time. The book initially overviews the concepts of IoT, IIoT and Cyber Physical Systems followed by various critical applications and discusses the latest designs and developments that provide common solutions for the convergence of technologies. In addition, the book specifies methodologies, algorithms and other relevant architectures in various fields that include Automation, Robotics, Smart Agriculture and Industry 4.0. The book is intended for practitioners, enterprise representatives, scientists, students and Ph.D Scholars in hopes of steering research further towards cyber physical systems design and development and implementation across various domains. Additionally, this book can be used as a secondary reference, or rather one-stop guide, by professionals for real-life implementation of cyber physical systems. The book highlights:**

- A Critical Coverage of various domains: IoT, Cyber Physical Systems, Industry 4.0, Smart Automation and related critical applications.
- Advanced elaborations for target audiences to understand the conceptual methodology and future directions of cyber physical systems and IoT.
- An approach towards Research Orientations to enable researchers to point out areas and scope for implementation of Cyber Physical Systems in several domains for better productivity.

Enterprise Architecture for Strategic Management of Modern IT Solutions

CRC Press The popularity of enterprise architecture (EA) has increased in the last two decades, in both business and academic domains. Despite the cumulative interest from all sectors, the implementation and practice of EA have been entangled with numerous challenges and complexities. Consequently, some organisations continue to theorise the concept, which has ramifications on practice and return on investment (ROI). This has led to many studies that have been conducted, to understand the complexities impacting the implementation and practice of EA in organisations. Yet, the trajectory of some convolutions remains mystery in many quarters. This attributes to the struggle to articulate the value of EA in many environments. Hence many organisations find it difficult to apply EA for strategic management of modern information technology (IT) solutions. Enterprise Architecture for Strategic Management of Modern IT Solutions provides guidance on how to employ EA in deploying and managing IT solutions from pragmatic and implementable strategies' perspectives. Until now, implementation and practice of EA have been slow, despite its growing popularity and interest from all sectors. The author employs sociotechnical theories such as actor-network theory (ANT) and structuration theory (ST) as lenses to examine and explain why and how challenges and complexities exist and derail the implementation or practice of EA in organisations. By doing so, this serves to enable practitioners and readers to gain fresh insights on why the challenges exist and how they can be addressed in creating collaborative capabilities for business enhancement, sustainability, and competitiveness. The book provides detailed insights on how to apply EA for organisational purposes, from three main fronts. First, it explains the implications that lack of understanding of EA have on organisational activities and processes. Second, it examines the challenges and complexities that hinder the implementation and practice of EA in organisations. Third, it proposes models and frameworks on how EA can be applied for strategic management of modern IT solutions in organisations. Written for postgraduates, researchers, academics, and professionals in the fields of EA, IT, and information systems, this book provides a valuable resource that will enable and enhance implementation and practice of EA including future studies.

Prepare for the Worst, Plan for the Best

Disaster Preparedness and Recovery for Small Businesses

John Wiley & Sons **Now in its second edition, Prepare for the Worst, Plan for the Best presents you with a structured, time-tested blueprint to help you evaluate your business in terms of its vulnerability and guide you through developing a cost-effective, individualized disaster and recovery plan. This book is an essential handbook for anyone who owns, or plans to start, a small business, to help you move from paralysis to preparedness.**

How to Become an It Architect

Artech House **Defining the various types of IT architecture in the industry, this one-of-a-kind resource highlights the rewards of becoming an architect and explores the details of the deliverables, project structure, and how to approach their creation. --**

Architecture and Building

Reviewing the Architecture of Today

Salesforce B2C Solution Architect's Handbook

Design scalable and cohesive business-to-consumer experiences with Salesforce Customer 360

Packt Publishing Ltd The ultimate handbook for new and seasoned Salesforce B2C Solution Architects who want to design seamless B2C solutions across the Salesforce Customer 360 ecosystem - including B2C Commerce, Service Cloud, and Marketing Cloud

Key Features Give your customers a frictionless experience by creating a unified view of all their interactions Get your architectural design right the first time and avoid costly reworks Prepare for the B2C Solution Architect exam and Salesforce certification with practical scenarios following Salesforce best practices

Book Description There's a huge demand on the market for Salesforce professionals who can create a single view of the customer across the Salesforce Customer 360 platform and leverage data into actionable insights. With **Salesforce B2C Solution Architect's Handbook**, you'll gain a deeper understanding of the integration options and products that help you deliver value for organizations. While this book will help you prepare for the B2C Solution Architect exam, its true value lies in setting you up for success afterwards. The first few chapters will help you develop a solid understanding of the capabilities of each component in the Customer 360 ecosystem, their data models, and governance. As you progress, you'll explore the role of a B2C solution architect in planning critical requirements and implementation sequences to avoid costly reworks and unnecessary delays. You'll learn about the available options for integrating products with the Salesforce ecosystem and demonstrate best practices for data modeling across Salesforce products and beyond. Once you've mastered the core knowledge, you'll also learn about tools, techniques, and certification scenarios in preparation for the B2C Solution Architect exam. By the end of this book, you'll have the skills to design scalable, secure, and future-proof solutions supporting critical business demands. What you will learn

Explore key Customer 360 products and their integration options Choose the optimum integration architecture to unify data and experiences Architect a single view of the customer to support service, marketing, and commerce Plan for critical requirements, design decisions, and implementation sequences to avoid sub-optimal solutions Integrate Customer 360 solutions into a single-source-of-truth solution such as a master data model Support business needs that require functionality from more than one component by orchestrating data and user flows

Who this book is for This book is for professionals in high-level job roles that heavily rely on Salesforce proficiency. It's primarily written for B2C commerce architects, application architects, integration architects, as well as system architects, enterprise architects, Salesforce

architects, and CTO teams looking to benefit from a deeper understanding of this platform. Before you get started, you'll need a solid understanding of data integration, APIs, and connected systems, along with knowledge of the fundamentals of business-to-consumer (B2C) customer experiences.

Systemic Architecture

Operating Manual for the Self-Organizing City

Routledge This is a manual investigating the subject of urban ecology and systemic development from the perspective of architectural design. It sets out to explore two main goals: to discuss the contemporary relevance of a systemic practice to architectural design, and to share a toolbox of informational design protocols developed to describe the city as a territory of self-organization. Collecting together nearly a decade of design experiments by the authors and their practice, ecoLogicStudio, the book discusses key disciplinary definitions such as ecologic urbanism, algorithmic architecture, bottom-up or tactical design, behavioural space and the boundary of the natural and the artificial realms within the city and architecture. A new kind of "real-time world-city" is illustrated in the form of an operational design manual for the assemblage of proto-architectures, the incubation of proto-gardens and the coding of proto-interfaces. These prototypes of machinic architecture materialize as synthetic hybrids embedded with biological life (proto-gardens), computational power, behavioural responsiveness (cyber-gardens), spatial articulation (coMachines and fibrous structures), remote sensing (FUNclouds), and communication capabilities (Ecological Footprint Grotto). Supporting the authors' own essays and projects are contributions from key innovators in contemporary architecture and urban design: Michael Batty, Andrew Hudson-Smith, Michael Weinstock and Patrik Schumacher.

API Architecture

API-University Press 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 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 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 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 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 architecture is presented. 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.

Technology Strategy Patterns

Architecture as Strategy

O'Reilly Media **Technologists who want their ideas heard, understood, and funded are often told to speak the language of business—without really knowing what that is. This book's toolkit provides architects, product managers, technology managers, and executives with a shared language—in the form of repeatable, practical patterns and templates—to produce great technology strategies. Author Eben Hewitt developed 39 patterns over the course of a decade in his work as CTO, CIO, and chief architect for several global tech companies. With these proven tools, you can define, create, elaborate, refine, and communicate your architecture goals, plans, and approach in a way that executives can readily understand, approve, and execute. This book covers: Architecture and strategy: Adopt a strategic architectural mindset to make a meaningful material impact Creating your strategy: Define the components of your technology strategy using proven patterns Communicating the strategy: Convey your technology strategy in a compelling way to a variety of audiences Bringing it all together: Employ patterns individually or in clusters for specific problems; use the complete framework for a comprehensive strategy**

The Architects' Journal

Using Cross-Layer Techniques for Communication Systems

IGI Global **Although the existing layering infrastructure--used globally for designing computers, data networks, and intelligent distributed systems and which connects various local and global communication services--is conceptually correct and pedagogically elegant, it is now well over 30 years old has started create a serious bottleneck. Using Cross-Layer Techniques for Communication Systems: Techniques and Applications explores how cross-layer methods provide ways to escape from the current communications model and overcome the challenges imposed by restrictive boundaries between layers. Written exclusively by well-established researchers, experts, and professional engineers, the book will present basic concepts, address different approaches for solving the cross-layer problem, investigate**

recent developments in cross-layer problems and solutions, and present the latest applications of the cross-layer in a variety of systems and networks.

Rapid-prototyping of Hardware and Software in a Unified Framework

Journal of the Faculty of Architecture

Hands-On Linux for Architects

Design and implement Linux-based IT solutions

Packt Publishing Ltd **Explore practical use cases to learn everything from Linux components, and functionalities, through to hardware and software support** **Key Features** Gain a clear understanding of how to design a Linux environment Learn more about the architecture of the modern Linux operating system (OS) Understand infrastructure needs and design a high-performing computing environment **Book Description** It is very important to understand the flexibility of an infrastructure when designing an efficient environment. In this book, you will cover everything from Linux components and functionalities through to hardware and software support, which will help you to implement and tune effective Linux-based solutions. This book gets started with an overview of Linux design methodology. Next, you will focus on the core concepts of designing a solution. As you progress, you will gain insights into the kinds of decisions you need to make when deploying a high-performance solution using Gluster File System (GlusterFS). In the next set of chapters, the book will guide you through the technique of using Kubernetes as an orchestrator for deploying and managing containerized applications. In addition to this, you will learn how to apply and configure Kubernetes for your NGINX application. You'll then learn how to implement an ELK stack, which is composed of Elasticsearch, Logstash, and Kibana. In the concluding chapters, you will focus on installing and configuring a Saltstack solution to manage different

Linux distributions, and explore a variety of design best practices. By the end of this book, you will be well-versed with designing a high-performing computing environment for complex applications to run on. By the end of the book, you will have delved inside the most detailed technical conditions of designing a solution, and you will have also dissected every aspect in detail in order to implement and tune open source Linux-based solutions What you will learnStudy the basics of infrastructure design and the steps involvedExpand your current design portfolio with Linux-based solutionsDiscover open source software-based solutions to optimize your architectureUnderstand the role of high availability and fault tolerance in a resilient designIdentify the role of containers and how they improve your continuous integration and continuous deployment pipelinesGain insights into optimizing and making resilient and highly available designs by applying industry best practicesWho this book is for This intermediate-level book is for Linux system administrators, Linux support engineers, DevOps engineers, Linux consultants or any open source technology professional looking to learn or expand their knowledge in architecting, designing and implementing solutions based on Linux and open source software. Prior experience in Linux is required.

Public Housing Design

A Review of Experience in Low-rent Housing

The 14th IEEE 2003 International Symposium on Personal, Indoor, and Mobile Radio Communications
Proceedings : PIMRC2003 : September 7-10, 2003,

Beijing, China

IEEE

New Building Today

European Architecture of the 1990s

Birkhauser **Speakers were asked to address but a single question: What are the five best examples of architecture in your country of the last five years?**

The Architect

Advanced Information Systems Engineering

30th International Conference, CAiSE 2018, Tallinn, Estonia, June 11-15, 2018, Proceedings

Springer **This book constitutes the refereed proceedings of the 30th International Conference on Advanced Information Systems Engineering, CAiSE 2018, held in Tallinn, Estonia, in June 2018. The 37 papers presented in this volume were carefully reviewed and selected from 175 submissions. The papers are organized in topical sections on Process Execution, User-Oriented IS Development, Social Computing and Personalization, the Cloud and Data Services, Process Discovery, Decisions and the Blockchain, Process and Multi-level Modelling, Data Management and Visualization, Big Data and Intelligence, Data Modelling and Mining, Quality Requirements and Software, and Tutorials.**

Cooperation Among Organizations

The Potential of Computer Supported Cooperative Work

Springer This book reports research conducted in the ESPRIT Exploratory Action PECOS (Perspectives on Cooperative Systems), which investigated requirements for effective Computer Supported Cooperative Work (CSCW), with special reference to cooperation among organisations in large projects. The PECOS action included an evaluation of the state of the art in both technological capability and organisational theory and practice. New methodological proposals were made based on two practical contexts. The first was the management of a complex industrial project, the construction of a high-speed train for the Italian railway, which required cooperation among four private companies. The second was the design of an information system for water management in the Lombardy region, which required cooperation among several different branches of public administration. These contexts were studied, applying techniques of enterprise modelling, in order to identify requirements for CSCW systems. The action suggests a methodology which emphasizes the importance of modelling the application context and integrating all tools into a common environment.