

Software Solutions Architect

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Software architecture is becoming more and more important when laying solid foundations for digital products. As a result, as a product manager, product owner or project lead, we are closely working ...

[This is why project leads should challenge software architect's plans](#)

With each sprint, the teams then take on little improvements that over time result in taking the spaghetti code and turning

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it into a cleaner and well architected software solution. Reason #3 – An ...

5 Reasons to Develop a Software Architecture

Addresses major gap in availability of a mature, modular, integrated middleware solution that allows mobility OEMs to manage the continual increase in software complexity while retaining full control ...

ZF and KPIT form development cooperation for industry-leading middleware solution

The latest Construction and Architecture Software market research report helps the stakeholders get an in-depth understanding of the business sphere ...

Construction and Architecture Software market to gain substantial traction through 2026

They need to be designed, analyzed, and optimized together to arrive at an optimized solution ... moving more functionality from the software into the hardware." Arm recently announced a new software ...

Software-Hardware Co-Design Becomes Real

PRIVX EXPANDS ITS SUPPORT TO MODERN CONTAINER ARCHITECTURE DEPLOYMENTS Helsinki, Finland – October 25, 2021 – SSH's leading JIT Zero Trust privileged access management (PAM) solution PrivX is now ...

PRIVX EXPANDS ITS SUPPORT TO MODERN CONTAINER ARCHITECTURE DEPLOYMENTS

QCon Plus is a virtual conference for senior software engineers and architects that covers the trends, best practices, and solutions leveraged by the world's most innovative software organizations.

Minimizing Design Time Coupling in a Microservice Architecture

–(BUSINESS WIRE)–#ICS—SynSaber, an industrial asset and network monitoring solution provider, today announced the appointment of software industry veteran Michael Quigley as Chief Architect. Quigley ...

SynSaber Announces Appointment of Michael Quigley as Chief Architect

The "Enterprise Architecture Tools Market Size, Share & Trends Analysis Report By Solution (Security Architecture, Application Architecture, Data Architecture), By Deployment, By Enterprise Size, By ...

The Worldwide Enterprise Architecture Tools Industry is Expected to Reach \$1.41 Billion by 2028

SET architecture improvements include ... About Smart Earth Technologies SET has delivered cloud-based LTE AMI solutions and software to more than 100 water utilities and selected AMI OEMs ...

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SET Unveils New, Massively Scalable Cloud Software Architecture

It will address the emerging challenges through solutions in software integration, architecture consulting, platform component integration, integrated tooling, and CI/CT/CD* infrastructure to help ...

KPIT to Boost Investments Towards Software-Defined Vehicle Solutions with a Specific Focus on Middleware

For instance, in August 2020, both Software AG and du from Emirates ... has segmented the global enterprise architecture tools market based on solution, deployment, enterprise size, end use ...

Enterprise Architecture Tools Market Size Worth \$1.41 Billion By 2028: Grand View Research, Inc.

cost and complexity of developing and deploying critical software for automotive, military, IoT and industrial solutions based on the new RISC-V processor architecture. INTEGRITY and its advanced ...

Green Hills Software Expands INTEGRITY Support to Include RISC-V Architecture

UK-based chip developer Arm announced the launch of its software architecture and open-source reference implementation, called Scalable Open Architecture for Embedded Edge (SOAFEE), designed to ...

VW, Continental tap chip developer Arm's new solution for software-defined cars

Recent events for these companies such as new solution/product launches ... ahead and grow in the global Enterprise Architecture Management Software market. The report provides an analysis ...

Global Enterprise Architecture Management Software Market 2021 Latest Updates, Business Trends and Future Growth Prospects to 2027

Some of the key market trends prevailing in the electronic T&M market include: The communications and defense sectors provide growth opportunities for software test solutions with focus on big ...

Global Electronic Test & Measurement Software Market Report 2021: Open-architecture-based Software Solutions for Integrated Testing

Partnership accelerates access to industry impacting AI capabilities for organisations in the ASEAN region and beyond.

Aicadium and SambaNova join forces to bring innovative end-to-end hardware and software AI solution to Singapore

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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.

A comprehensive guide to exploring software architecture concepts and implementing best practices Key Features Enhance your skills to grow your career as a software architect Design efficient software architectures using patterns and best practices Learn how software architecture relates to an organization as well as software development methodology Book Description The Software Architect's Handbook is a comprehensive guide to help developers, architects, and senior programmers advance their career in the software architecture domain. This book takes you through all the important concepts, right from design principles to different considerations at various stages of your career in software architecture. The book begins by covering the fundamentals, benefits, and purpose of software architecture. You will discover how software architecture relates to an organization, followed by identifying its significant quality attributes. Once you have covered the basics, you will explore design patterns, best practices, and paradigms for efficient software development. The book discusses which factors you need to consider for performance and security enhancements. You will learn to write documentation for your architectures and make appropriate decisions when considering DevOps. In addition to this, you will explore how to design legacy applications before understanding how to create software architectures that evolve as the market, business requirements, frameworks, tools, and best practices change over time. By the end of this book, you will not only have studied software architecture concepts but also built the soft skills necessary to grow in this field. What you will learn Design software architectures using patterns and best practices Explore the different considerations for designing software architecture Discover what it takes to continuously improve as a software architect Create loosely coupled systems that can support change Understand DevOps and how it affects software architecture Integrate, refactor, and re-architect legacy applications Who this book is for The Software Architect's Handbook is for you if you are a software architect, chief technical officer (CTO), or senior developer looking to gain a firm grasp of software architecture.

In this truly unique technical book, today's leading software architects present valuable principles on key development issues that go way beyond technology. More than four dozen architects -- including Neal Ford, Michael Nygard, and Bill de hOra -- offer advice for communicating with stakeholders, eliminating complexity, empowering developers, and many more practical lessons they've learned from years of experience. Among the 97 principles in this book, you'll find useful advice such as: Don't Put Your Resume Ahead of the Requirements (Nitin Borwankar) Chances Are, Your Biggest Problem Isn't Technical (Mark Ramm) Communication Is King; Clarity and Leadership, Its Humble Servants (Mark Richards) Simplicity

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Before Generality, Use Before Reuse (Kevlin Henney) For the End User, the Interface Is the System (Vinayak Hegde) It's Never Too Early to Think About Performance (Rebecca Parsons) To be successful as a software architect, you need to master both business and technology. This book tells you what top software architects think is important and how they approach a project. If you want to enhance your career, 97 Things Every Software Architect Should Know is essential reading.

A guide to successfully operating in a lean-agile organization for solutions architects and enterprise architects Key Features Develop the right combination of processes and technical excellence to address architectural challenges Explore a range of architectural techniques to modernize legacy systems Discover how to design and continuously improve well-architected sustainable software Book Description Many organizations have embraced Agile methodologies to transform their ability to rapidly respond to constantly changing customer demands. However, in this melee, many enterprises often neglect to invest in architects by presuming architecture is not an intrinsic element of Agile software development. Since the role of an architect is not pre-defined in Agile, many organizations struggle to position architects, often resulting in friction with other roles or a failure to provide a clear learning path for architects to be productive. This book guides architects and organizations through new Agile ways of incrementally developing the architecture for delivering an uninterrupted, continuous flow of values that meets customer needs. You'll explore various aspects of Agile architecture and how it differs from traditional architecture. The book later covers Agile architects' responsibilities and how architects can add significant value by positioning themselves appropriately in the Agile flow of work. Through examples, you'll also learn concepts such as architectural decision backlog, the last responsible moment, value delivery, architecting for change, DevOps, and evolutionary collaboration. By the end of this Agile book, you'll be able to operate as an architect in Agile development initiatives and successfully architect reliable software systems. What you will learn Acquire clarity on the duties of architects in Agile development Understand architectural styles such as domain-driven design and microservices Identify the pitfalls of traditional architecture and learn how to develop solutions Understand the principles of value and data-driven architecture Discover DevOps and continuous delivery from an architect's perspective Adopt Lean-Agile documentation and governance Develop a set of personal and interpersonal qualities Find out how to lead the transformation to achieve organization-wide agility Who this book is for This agile study guide is for architects currently working on agile development projects or aspiring to work on agile software delivery, irrespective of the methodology they are using. You will also find this book useful if you're a senior developer or a budding architect looking to understand an agile architect's role by embracing agile architecture strategies and a lean-agile mindset. To understand the concepts covered in this book easily, you need to have prior knowledge of basic agile development practices.

Apply cloud design patterns to overcome real-world challenges by building scalable, secure, highly available, and cost-effective solutions Key Features Apply AWS Well-Architected Framework concepts to common real-world use cases Understand how to select AWS patterns and architectures that are best suited to your needs Ensure the security and

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stability of a solution without impacting cost or performance

Book Description One of the most popular cloud platforms in the world, Amazon Web Services (AWS) offers hundreds of services with thousands of features to help you build scalable cloud solutions; however, it can be overwhelming to navigate the vast number of services and decide which ones best suit your requirements. Whether you are an application architect, enterprise architect, developer, or operations engineer, this book will take you through AWS architectural patterns and guide you in selecting the most appropriate services for your projects. AWS for Solutions Architects is a comprehensive guide that covers the essential concepts that you need to know for designing well-architected AWS solutions that solve the challenges organizations face daily. You'll get to grips with AWS architectural principles and patterns by implementing best practices and recommended techniques for real-world use cases. The book will show you how to enhance operational efficiency, security, reliability, performance, and cost-effectiveness using real-world examples. By the end of this AWS book, you'll have gained a clear understanding of how to design AWS architectures using the most appropriate services to meet your organization's technological and business requirements.

What you will learn

- Rationalize the selection of AWS as the right cloud provider for your organization
- Choose the most appropriate service from AWS for a particular use case or project
- Implement change and operations management
- Find out the right resource type and size to balance performance and efficiency
- Discover how to mitigate risk and enforce security, authentication, and authorization
- Identify common business scenarios and select the right reference architectures for them

Who this book is for This book is for application and enterprise architects, developers, and operations engineers who want to become well-versed with AWS architectural patterns, best practices, and advanced techniques to build scalable, secure, highly available, and cost-effective solutions in the cloud. Although existing AWS users will find this book most useful, it will also help potential users understand how leveraging AWS can benefit their organization.

As the digital economy changes the rules of the game for enterprises, the role of software and IT architects is also transforming. Rather than focus on technical decisions alone, architects and senior technologists need to combine organizational and technical knowledge to effect change in their company's structure and processes. To accomplish that, they need to connect the IT engine room to the penthouse, where the business strategy is defined. In this guide, author Gregor Hohpe shares real-world advice and hard-learned lessons from actual IT transformations. His anecdotes help architects, senior developers, and other IT professionals prepare for a more complex but rewarding role in the enterprise. This book is ideal for:

- Software architects and senior developers looking to shape the company's technology direction or assist in an organizational transformation
- Enterprise architects and senior technologists searching for practical advice on how to navigate technical and organizational topics
- CTOs and senior technical architects who are devising an IT strategy that impacts the way the organization works
- IT managers who want to learn what's worked and what hasn't in large-scale transformation

The practice of enterprise application development has benefited from the emergence of many new enabling technologies. Multi-tiered object-oriented platforms, such as Java and .NET, have become commonplace. These new tools and

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technologies are capable of building powerful applications, but they are not easily implemented. Common failures in enterprise applications often occur because their developers do not understand the architectural lessons that experienced object developers have learned. *Patterns of Enterprise Application Architecture* is written in direct response to the stiff challenges that face enterprise application developers. The author, noted object-oriented designer Martin Fowler, noticed that despite changes in technology--from Smalltalk to CORBA to Java to .NET--the same basic design ideas can be adapted and applied to solve common problems. With the help of an expert group of contributors, Martin distills over forty recurring solutions into patterns. The result is an indispensable handbook of solutions that are applicable to any enterprise application platform. This book is actually two books in one. The first section is a short tutorial on developing enterprise applications, which you can read from start to finish to understand the scope of the book's lessons. The next section, the bulk of the book, is a detailed reference to the patterns themselves. Each pattern provides usage and implementation information, as well as detailed code examples in Java or C#. The entire book is also richly illustrated with UML diagrams to further explain the concepts. Armed with this book, you will have the knowledge necessary to make important architectural decisions about building an enterprise application and the proven patterns for use when building them. The topics covered include

- Dividing an enterprise application into layers
- The major approaches to organizing business logic
- An in-depth treatment of mapping between objects and relational databases
- Using Model-View-Controller to organize a Web presentation
- Handling concurrency for data that spans multiple transactions
- Designing distributed object interfaces

This text aims to help all members of the development team make the correct nuts-and-bolts architecture decisions that ensure project success.

The book covers the best practices and approaches for software architects to follow when developing .NET and C# solutions, along with the most up to date cloud environments and tools to enable effective app development, delivery, and deployment.

Solution architecture is concerned with the design and definition of (information technology) solutions so they can be subsequently implemented, used, operated and supported securely and efficiently. The solution exists to operate business processes in order to achieve business objectives, meet a business need and deliver business value. Solution architecture is concerned with engaging with the originating business function looking for the solution to create a solution vision and design a solution that meet their needs, subject to a range of constraints such as cost and affordability, time to deliver and organisational standards. The solution must exist as a coherent whole. Solutions must be designed consistently across the solution landscape and make optimum use of appropriate technologies. Solution architecture must focus on creating usable and useful solutions. Solution architecture must have a standard reliable approach to business engagements and the design of solution that emerge from them. Solution architecture must work collaboratively with other information technology functions - other architecture roles, business analysis and service management - to ensure continuity along the solution

delivery journey. Effective solution architecture involves: -Have a depth and breadth of solution delivery and technical experience to be able to identify solution design options quickly-Being able to understand the detail of the solution while maintaining a view of the wider (and higher) context of the business need for the solution and being able to explain both these views of sets of information-Being able to communicate effectively with all parties - technical and business - involved in the solution design and delivery journey, assist with decision-making, be realistic and make appropriate compromises and design choices in order to create the best solution design-Being able to apply technology appropriately and with selective innovation (and the desire to constantly acquire new knowledge and ways of applying technology)-Being involved in the solution delivery journey along its entire length-Being able to be the solution advocate and subject matter expert This book is aimed at a variety of potential readers: -Existing solution architects who want to have a more theoretical and a broader understanding of their role-Existing or new managers of solution architecture functions who want to create a high-performing practice within their organisations and who want to articulate the benefits and value solution architect can contribute to the information technology function and the wider business and the potential it can offer to the business organisation-Managers of information technology functions who want to understand what solution architecture is, where it fits into the wider architecture context and disciplines and solution delivery and operation and the value it can contribute to both the information technology function and the wider business-Other information technology architects who want to understand how the architecture disciplines can work together to deliver value-Business analysts and managers of business analysis functions who want to understand how they can work more closely with the solution architecture function in order to provide the business with a better overall service-Other information technology personnel who want to move into solution architecture and who want to understand what it is-Consulting organisations and individuals who want to develop and offer value-adding solution architecture services

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