

# Service Oriented Architecture Thomas Erl Pearson

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cloud computing concepts technology security architecture cloud computing has become an integral and foundational part of information technology the majority of digital business activity and technology innovation occurs with the involvement of contemporary cloud environments that provide highly sophisticated automated technology infrastructure and a vast range of technology resources to successfully build upon interact with or create a cloud

environment requires an understanding of its common inner mechanics architectural layers models and security controls it also requires an understanding of the business and economic factors that justify the adoption and real world use of clouds and cloud based products and services in cloud computing concepts technology security architecture thomas erl one of the world s top selling it authors teams up with cloud computing expert eric barceló monroy and researchers to break down proven and mature cloud computing technologies and practices into a series of well defined concepts technology mechanisms and technology architectures comprehensive coverage of containerization and cybersecurity topics is also included all chapters are carefully authored from an industry centric and vendor neutral point of view in doing so the book establishes concrete academic coverage with a focus on structure clarity and well defined building blocks for mainstream cloud computing and containerization platforms and solutions with nearly 370 figures 40 architectural models and 50 mechanisms this indispensable guide provides a comprehensive education of contemporary cloud computing containerization and cybersecurity that will never leave your side

800x600 the concise introduction to modern soa high value approaches innovative technologies proven use cases after a decade of innovation in technology and practice soa is now a mainstream computing discipline capable of transforming it enterprises and optimizing business automation in next generation soa top selling soa author thomas erl and a team of experts present a plain english tour of soa service orientation and the key service technologies being used to build sophisticated contemporary service oriented solutions the starting point for today s it professionals this concise guide distills the increasingly growing and diverse field of service oriented architecture and the real world practice of building powerful service driven systems accessible and jargon free this book intentionally avoids technical details to provide easy to understand introductory coverage of the following topics services service orientation and service oriented computing what they are and how they have evolved how soa and service orientation change businesses and transform it culture priorities and technology decisions how services are defined and composed to solve a wide spectrum of business problems deep implications of the service orientation paradigm illuminated through an annotation of the classic soa manifesto traditional and contemporary service technologies and architectures how clouds and virtualization support the scalability and reliability of services based solutions soa based industry models from enterprise service to global trader a detailed

case study how real enterprises bring together contemporary soa practices models and technologies next generation soa will be indispensable to wide audiences of business decision makers and technologists including architects developers managers executives strategists consultants and researchers

in cooperation with experts and practitioners throughout the soa community best selling author thomas erl brings together the de facto catalog of design patterns for soa and service orientation more than three years in development and subjected to numerous industry reviews the 85 patterns in this full color book provide the most successful and proven design techniques to overcoming the most common and critical problems to achieving modern day soa through numerous examples individually documented pattern profiles and over 400 color illustrations this book provides in depth coverage of patterns for the design implementation and governance of service inventories collections of services representing individual service portfolios that can be independently modeled designed and evolved patterns specific to service level architecture which pertain to a wide range of design areas including contract design security legacy encapsulation reliability scalability and a variety of implementation and governance issues service composition patterns that address the many aspects associated with combining services into aggregate distributed solutions including topics such as runtime messaging and message design inter service security controls and transformation compound patterns such as enterprise service bus and orchestration and recommended pattern application sequences that establish foundational processes the book begins by establishing soa types that are referenced throughout the patterns and then form the basis of a final chapter that discusses the architectural impact of service oriented computing in general these chapters bookend the pattern catalog to provide a clear link between soa design patterns the strategic goals of service oriented computing different soa types and the service orientation design paradigm this book series is further supported by a series of resources sites including [soabooks.com](http://soabooks.com) [soaspecs.com](http://soaspecs.com) [soapatterns.org](http://soapatterns.org) [soamag.com](http://soamag.com) and [soaposters.com](http://soaposters.com)

clouds are distributed technology platforms that leverage sophisticated technology innovations to provide highly scalable and resilient environments that can be remotely utilized by organizations in a multitude of powerful ways to successfully build upon integrate with or even create a cloud environment requires an understanding of its common inner mechanics architectural layers and models as well as an understanding of the business and economic factors that result from the adoption and real world use of cloud based services in cloud computing concepts technology architecture thomas erl one of the world's top selling it

authors teams up with cloud computing experts and researchers to break down proven and mature cloud computing technologies and practices into a series of well defined concepts models technology mechanisms and technology architectures all from an industry centric and vendor neutral point of view in doing so the book establishes concrete academic coverage with a focus on structure clarity and well defined building blocks for mainstream cloud computing platforms and solutions subsequent to technology centric coverage the book proceeds to establish business centric models and metrics that allow for the financial assessment of cloud based it resources and their comparison to those hosted on traditional it enterprise premises also provided are templates and formulas for calculating sla related quality of service values and numerous explorations of the saas paas and iaas delivery models with more than 260 figures 29 architectural models and 20 mechanisms this indispensable guide provides a comprehensive education of cloud computing essentials that will never leave your side

a formal catalog that provides a pattern language for building service oriented solutions through solving common design problems this text offers expert guidance in the form of proven design patterns and anti patterns to minimize the risk and maximize the potential of service delivery in support of soa

your complete guide to digital transformation a field guide to digital transformation is the definitive book on digital transformation top selling it author thomas erl and long time practitioner roger stoffers combine to provide comprehensive yet easy to understand coverage of essential digital transformation concepts practices and technologies in the format of a plain english tutorial written for any it professionals students or decision makers with more than 160 diagrams this guide provides a highly visual exploration of what digital transformation is how it works and the techniques and technologies required to successfully build modern day digital transformation solutions learn from the experts and discover what digital transformation is why it emerged and when to apply it identify the significant business benefits that successful digital transformations can deliver and how to turn your organization into a disruptive force prepare for and overcome the common challenges associated with digital transformation initiatives understand the data driven nature of digital transformation solutions and how they use and continually accumulate data intelligence understand how digital transformation solutions can utilize ai technology for intelligent automated decision making gain insight into customer centricity and how its practices are applied as part of digital transformations

explore key digital transformation automation technologies such as robotic process automation rpa internet of things iot blockchain and cloud computing explore key digital transformation data science technologies such as artificial intelligence ai machine learning and big data analysis and analytics the book concludes with a uniquely detailed and highly visual real world business scenario that provides step by step insights into how a digital transformation solution works how it utilizes data intelligence to improve customer relationship building and how it collects new data intelligence in support of enhancing future business capabilities

the top selling de facto guide to soa now updated with new content and coverage of microservices for more than a decade thomas erl's best selling service oriented architecture concepts technology and design has been the definitive end to end tutorial on soa service orientation and service technologies now erl has thoroughly updated the industry's de facto guide to soa to reflect new practices technologies and strategies that have emerged through hard won experience and creative innovation this second edition officially introduces microservices and micro task abstraction as part of service oriented architecture and its associated service layers updated case study examples and illustrations further explain and position the microservice model alongside and in relation to more traditional types of services coverage includes easy to understand plain english explanations of soa and service orientation fundamentals as compiled from series titles microservices micro task abstraction and containerization service delivery lifecycle and associated phases analysis and conceptualization of services and microservices service api design with rest services web services and microservices modern service api and contract versioning techniques for web services and rest services up to date appendices with service orientation principles rest constraints and soa patterns including three new patterns service oriented architecture analysis and design for services and microservices second edition will be indispensable to application architects enterprise architects software developers and any it professionals interested in learning about or responsible for designing or implementing modern day service oriented solutions chapter 1 introduction chapter 2 case study backgrounds part i fundamentals chapter 3 understanding service orientation chapter 4 understanding soa chapter 5 understanding layers with services and microservices part ii service oriented analysis and design chapter 6 analysis and modeling with services and microservices chapter 7 analysis and modeling with rest services and microservices chapter 8 service api and contract design with services chapter 9 service

api and contract design with rest services and microservices chapter 10 service api and contract versioning with services and rest services part iii appendices appendix a service orientation principles reference appendix b rest constraints reference appendix c soa design patterns reference appendix d the annotated soa manifesto

this text should be required reading for everyone in contemporary business peter woodhull ceo modus21 the one book that clearly describes and links big data concepts to business utility dr christopher starr phd simply this is the best big data book on the market sam rostam cascadian it group one of the most contemporary approaches i ve seen to big data fundamentals joshua m davis phd the definitive plain english guide to big data for business and technology professionals big data fundamentals provides a pragmatic no nonsense introduction to big data best selling it author thomas erl and his team clearly explain key big data concepts theory and terminology as well as fundamental technologies and techniques all coverage is supported with case study examples and numerous simple diagrams the authors begin by explaining how big data can propel an organization forward by solving a spectrum of previously intractable business problems next they demystify key analysis techniques and technologies and show how a big data solution environment can be built and integrated to offer competitive advantages discovering big data s fundamental concepts and what makes it different from previous forms of data analysis and data science understanding the business motivations and drivers behind big data adoption from operational improvements through innovation planning strategic business driven big data initiatives addressing considerations such as data management governance and security recognizing the 5 v characteristics of datasets in big data environments volume velocity variety veracity and value clarifying big data s relationships with oltp olap etl data warehouses and data marts working with big data in structured unstructured semi structured and metadata formats increasing value by integrating big data resources with corporate performance monitoring understanding how big data leverages distributed and parallel processing using nosql and other technologies to meet big data s distinct data processing requirements leveraging statistical approaches of quantitative and qualitative analysis applying computational analysis methods including machine learning

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the definitive guide to service engineering the key to succeeding with service oriented architecture soa is in comprehending the meaning and significance of its most fundamental building block the service it is through an understanding of service design that truly service oriented solution logic can be created in support of achieving the strategic goals associated with soa and service oriented computing bestselling soa author thomas erl guides you through a comprehensive insightful and visually rich exploration of the service orientation design paradigm revealing exactly how services should and should not be designed for real world soa

every year datacenter managers must deliver more services faster with greater flexibility they must efficiently handle soaring amounts of data and unprecedented levels of complexity and they must do all this with lower budgets and fewer resources datacenter virtualization with vmware s vsphere 5 is the best way to achieve these goals and to accelerate your transition to cloud services vmware vsphere 5 building a virtual datacenter brings together all the practical knowledge you need to evaluate plan implement and manage vsphere 5 in your datacenter environment top datacenter virtualization consultants eric maillé and rené françois mennecier begin by introducing vsphere 5 from the viewpoint of the datacenter manager and professional they present essential definitions advantages and functions review vsphere 5 s architecture and introduce core components such as vcenter server and esxi 5 0 next maillé and mennecier turn to implementation presenting detailed examples schemas and best practices drawn from their extensive experience they share practical insights into budgeting scheduling and planning choosing the right architecture and integrating vsphere with existing datacenter elements including servers storage clusters network infrastructure and business continuity plans they conclude with a start to finish case study a datacenter virtualization project designed to support specific business objectives coverage includes assessing the potential benefits of datacenter virtualization in your environment organizing and managing a smooth migration to the virtualized datacenter anticipating specific challenges and risks associated with datacenter virtualization

making tradeoffs to optimize stability elasticity scalability and cost choosing the best installation configuration options for your environment effectively linking vsphere 5 virtualization to existing datacenter elements driving more value from vsphere 5 s powerful new datacenter features providing storage to efficiently support your hosted vms now and in the future managing limited memory and other server constraints leveraging new options for service continuity and high availability using backup architecture as a lever to reduce costs

the ultimate guide for designing and governing service contracts for services to succeed as part of soa they require balanced effective technical contracts that enable services to be evolved and repeatedly reused for years to come now a team of industry experts presents the first end to end guide to designing and governing service contracts writing for developers architects governance specialists and other it professionals the authors cover the following areas understanding service contract technologies fundamental and advanced wsdl fundamental and advanced xml schema fundamental and advanced ws policy fundamental message design with soap advanced message design with ws addressing advanced message design with mtom and swa versioning techniques and strategies service contracts and soa

the authoritative guide to building service oriented solutions with microsoft net technologies and the windows azure cloud computing platform in soa with net and windows azure top microsoft technology experts team up with thomas erl to explore service oriented computing with microsoft s latest net service technologies and windows azure innovations the authors provide comprehensive documentation of on premise and cloud based modern service technology advancements within the microsoft platform and further show how these technologies have increased the potential for applying and realizing service orientation practices and goals specifically the book delves into microsoft enterprise technologies such as windows communication foundation wcf windows azure windows workflow foundation wf windows azure appfabric biztalk server windows presentation foundation wpf as well as industry service mediums including ws and rest and many related service industry standards and technologies the book steps through common soa design patterns and service orientation principles along with numerous code level examples that further detail various technology architectures and implementations topic areas this book covers the following primary topics microsoft service technologies microsoft enterprise technologies on premise cloud based service topics industry

service technologies mediums service oriented technology architectural models service orientation design paradigm service orientation design principles soa design patterns about the sites this book series is further supported by a series of resources sites including soabooks com soaspecs com soamag com serviceorientation com soapatterns org soaprinciples com whatissoa com

this effective study guide offers comprehensive coverage of topics comprising the enterprise architecture body of knowledge the book provides detailed coverage and lays out actionable methodologies and best practices to create and maintain successful ea models artifacts and building blocks it helps prepare readers to take any of the various ea certification exams and academic courses in enterprise architecture this highly effective self study guide offers comprehensive coverage of all topics in the enterprise architecture body of knowledge written by a team of experienced academics practitioners and professionals the book takes a holistic look at the practice of enterprise architecture you will get actionable methodologies and best practices and learn how to develop deploy and maintain successful enterprise architecture models artifacts and building blocks designed to help you prepare for certification the certified enterprise architect all in one exam guide also serves as an essential on the job reference coverage includes enterprise architecture foundation concepts planning the enterprise architecture enterprise architecture development governance and maintenance defense frameworks viewpoints and views the zachman framework the open group architecture framework togaf the common approach to federal enterprise architecture feaf2 comparison of frameworks case study integrated throughout the text and much more

the definitive guide to building centric soa with rest the world wide is based on the most successful technology architecture in history it has changed how we view access and exchange information and with the advent of rest it has also provided us with compelling ways to build and improve automation solutions rest provides a great deal of guidance to ensure that an architecture and its automation logic are technically sound though it is still your responsibility to build services that actually add value to your business soa with rest is the first comprehensive tutorial and reference for designing and building restful services as part of service oriented solutions and in conjunction with service oriented architecture soa this book demonstrates that rest is not only a suitable medium for building truly service oriented solutions but also that the service oriented architectural model is a necessary foundation for rest technology architectures to

realize their full business potential the authors provide thorough mapping of rest constraints and architectural goals with service orientation principles and soa characteristics using real world examples they show how to leverage rest s simplicity flexibility and low overhead without compromising the power or manageability of service oriented solutions and architectures this ebook will be valuable to it architects developers and any practitioner seeking to use soa and rest together

this book continues the very high standard we have come to expect from servicetech press the book provides well explained vendor agnostic patterns to the challenges of providing or using cloud solutions from paas to saas the book is not only a great patterns reference but also worth reading from cover to cover as the patterns are thought provoking drawing out points that you should consider and ask of a potential vendor if you re adopting a cloud solution phil wilkins enterprise integration architect specsavers thomas erl s text provides a unique and comprehensive perspective on cloud design patterns that is clearly and concisely explained for the technical professional and layman alike it is an informative knowledgeable and powerful insight that may guide cloud experts in achieving extraordinary results based on extraordinary expertise identified in this text i will use this text as a resource in future cloud designs and architectural considerations dr nancy m landreville ceo ciso nml computer consulting the definitive guide to cloud architecture and design best selling service technology author thomas erl has brought together the de facto catalog of design patterns for modern cloud based architecture and solution design more than two years in development this book s 100 patterns illustrate proven solutions to common cloud challenges and requirements its patterns are supported by rich visual documentation including 300 diagrams the authors address topics covering scalability elasticity reliability resiliency recovery data management storage virtualization monitoring provisioning administration and much more readers will further find detailed coverage of cloud security from networking and storage safeguards to identity systems trust assurance and auditing this book s unprecedented technical depth makes it a must have resource for every cloud technology architect solution designer developer administrator and manager topic areas enabling ubiquitous on demand scalable network access to shared pools of configurable it resources optimizing multitenant environments to efficiently serve multiple unpredictable consumers using elasticity best practices to scale it resources transparently and automatically ensuring runtime reliability operational resiliency and automated recovery from any failure

establishing resilient cloud architectures that act as pillars for enterprise cloud solutions rapidly provisioning cloud storage devices resources and data with minimal management effort enabling customers to configure and operate custom virtual networks in saas paas or iaas environments efficiently provisioning resources monitoring runtimes and handling day to day administration implementing best practice security controls for cloud service architectures and cloud storage securing on premise internet access external cloud connections and scaled vms protecting cloud services against denial of service attacks and traffic hijacking establishing cloud authentication gateways federated cloud authentication and cloud key management providing trust attestation services to customers monitoring and independently auditing cloud security solving complex cloud design problems with compound super patterns

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