Pro Asp Net Web Api Security Securing Asp Net Web Api

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asp net api is a key part of asp net mvc 4 and the platform of choice for building restful services that can be accessed by a wide range of devices everything from javascript libraries to ria plugins rfid readers to smart phones can consume your services using platform agnostic http with such wide accessibility securing your code effectively needs to be a top priority you will quickly find that the wcf security protocols you re familiar with from net are less suitable than they once were in this new environment proving themselves cumbersome and limited in terms of the standards they can work with fortunately asp net api provides a simple robust security solution of its own that fits

neatly within the asp net mvc programming model and secures your code without the need for soap meaning that there is no limit to the range of devices that it can work with if it can understand http then it can be secured by api these soap less security techniques are the focus of this book what you ll learn identity management and cryptography http basic and digest authentication and windows authentication http advanced concepts such as web caching etag and cors ownership factors of api keys client x 509 certificates and saml tokens simple token swt and signed and encrypted json token jwt oauth 2 0 from the ground up using jwt as the bearer token oauth 2 0 authorization codes and implicit grants using dotnetopenauth two factor authentication using google authenticator owasp top ten risks for 2013who this book is for no prior experience of net security is needed to read this book all security related concepts will be introduced from first principles and developed to the point where you can use them confidently in a professional environment a good working knowledge of and experience with c and the net framework are the only prerequisites to benefit from this book table of contents welcome to asp net api building restful services extensibility points http anatomy and security identity management encryption and signing custom sts through wif knowledge factors ownership factors tokens oauth 2 0 using live connect api oauth 2 0 from the ground up oauth 2 0 using dotnetopenauth two factor authentication security vulnerabilities appendix asp net api security distilled

thought provoking and accessible in approach this updated and expanded second edition of the pro asp net api security securing asp net api expert s voice in net provides a user friendly introduction to the subject taking a clear structural framework it guides the reader through the subject s core elements a flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts this succinct and enlightening overview is a required reading for advanced graduate level students we hope you find this book useful in shaping your future career feel free to send us your enquiries related to our publications to info risepress pw rise press

take the security of your asp net api to the next level using some of the most amazing security techniques around about this book this book has been completely updated for asp net api 2 0 including the new features of asp net api such as cross origin resource sharing cors and owin self hosting learn various techniques to secure asp net api including basic authentication using authentication filters forms windows authentication external authentication services and integrating asp net s identity system an easy to follow guide to enable ssl prevent cross site request forgery csrf attacks and enable cors in asp net api who this book is for this book is intended for anyone who has previous knowledge of developing asp net api applications good working knowledge and experience with c and net framework are prerequisites for this book what you will learn secure your web api by enabling secured socket layer ssl manage your application s user accounts by integrating asp net s identity system ensure the security of your web api by implementing basic authentication implement forms and windows authentication to secure your web api use external authentication such as facebook and twitter to

authenticate a request to a web api protect your web api from csrf attacks enable cors in your web api to explicitly allow some cross origin requests while rejecting others fortify your web api using oauth2 in detail this book incorporates the new features of asp net api 2 that will help you to secure an asp net api and make a well informed decision when choosing the right security mechanism for your security requirements we start by showing you how to set up a browser client to utilize asp net api services we then cover asp net api s security architecture authentication and authorization to help you secure a web api from unauthorized users next you will learn how to use ssl with asp net api including using ssl client certificates and integrate the asp net identity system with asp net api we ll show you how to secure a web api using oauth2 to authenticate against a membership database using owin middleware you will be able to use local logins to send authenticated requests using oauth2 we also explain how to secure a web api using forms authentication and how users can log in with their windows credentials using integrated windows authentication you will come to understand the need for external authentication services to enable oauth openid and social media authentication we ll then help you implement anti cross site request forgery csrf measures in asp net api finally you will discover how to enable cross origin resource sharing cors in your web api application style and approach each chapter is dedicated to a specific security technique in a task based and easy to follow way most of the chapters are accompanied with source code that demonstrates the step by step guidelines of implementing the technique and includes an explanation of how each technique works

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building secure distributed applications can be challenging it usually involves integrating several different technologies and products yet your complete application will only be as secure as its weakest link this guide presents a practical scenario driven approach to designing and building security enhanced asp net applications for microsoft windows 2000 and version 1 1 of the microsoft net framework it focuses on the key elements of authentication authorization and secure communication within and across the tiers of distributed net applications this guide focuses on authent

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 featuresfind out what are the essential personality traits and responsibilities of a solution architectbecome well versed with architecture principles and modern design patterns with hands on examplesdesign modern web solutions and make the most of azure devops to automate your development life cyclebook 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

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discusses how net technologies work and how they can be used covering topics including services technologies soap clr visual basic net the net framework class library ado net and asp net

gain a solid foundation for designing building and configuring security enhanced hack resistant microsoft asp net applications this expert guide describes a systematic task based approach to security that can be applied to both new and existing applications it addresses security considerations at the network host and application layers for each physical tier server remote application server and database server detailing the security configurations and countermeasures that can help mitigate risks the information is organized into sections that correspond to both the product life cycle and the roles involved making it easy for architects designers and developers to find the answers they need all patterns practices guides are reviewed and approved by microsoft engineering teams consultants partners and customers delivering accurate real world information that s been technically validated and tested

rumination obsessive thinking about an idea situation or choice that can interfere with normal mental functioning is a common and destructive issue that can negatively impact romantic relationships in stop overthinking your relationship certified couples therapist alicia mu¶oz draws from cognitive behavioral therapy cbt and mindfulness to offer readers a practical four step approach to reduce rumination and change negative thinking patterns so they can rediscover joy ease and meaningful connection with their partner

experienced developers who are looking to create reliably secure sites with asp net 2 0 will find that professional asp net 2 0 security membership and role management covers a broad range of security features including developing in partial trust forms authentication and securing configuration the book offers detailed information on every major area of asp net security you ll encounter when developing applications you ll see how asp net 2 0 version contains many new built in security functions compared to asp net 1 x such as membership and role manager and you ll learn how you can extend or modify various features the book begins with two chapters that walk you through the processing asp net 2 0 performs during a web request and the security processing for

each request followed by a detailed explanation of asp net trust levels with this understanding of security in place you can then begin working through the following chapters on configuring system security forms authentication and integrating asp net security with classic asp including integrating membership and role manager with classic asp the chapter on session state looks at the limitations of cookieless session identifiers methods for heading off session denial of service attacks and how session state is affected by trust level after the chapter explaining the provider model architecture in asp net 2 0 and how it is useful for writing custom security providers you go to the membershipprovider class and configuring the two default providers in the membership feature sqlmembershipprovider and activedirectorymembershipprovider you ll see how to use rolemanager to make it easy to associate users with roles and perform checks declaratively and in code and wrap up working with three providers for roleprovider windowstokenroleprovider sqlroleprovider and authorizationstoreroleprovider to work with authorization manager or azman this book is also available as part of the 5 book asp net 2 0 wrox box isbn 0 470 11757 5 this 5 book set includes professional asp net 2 0 special edition isbn 0 470 04178 1 asp net 2 0 website programming problem design solution isbn 0764584642 professional asp net 2 0 security membership and role management isbn 0764596985 professional asp net 2 0 server control and component development isbn 0471793507 asp net 2 0 mvp hacks and tips isbn 0764597663 cd rom with more than 1000 pages of bonus chapters from 15 other net 2 0 and sql server tm 2005 wrox books dvd with 180 day trial version of microsoft r visual studio r 2005 professional edition

this book is intended for developers who are already familiar with and have a solid understanding of asp net 1 1 and asp net 2 0 security concepts especially in the areas of forms authentication page security and website authorization it assumes that you have a good understanding of the general functionality of membership and role manager it is also assumes that you have some familiarity working with asp net ajax 3 5 the book aims to peel back the covers of various asp net security features so you can gain a deeper understanding of the security options available to you explaining the new iis 7 0 and its integrated mode of execution is also included in the book this book was written using the net 3 5 framework along with the net framework spi on both windows sever 2008 and windows vista the sample code in the book has been verified to work with net 3 5 framework and net 3 5 framework spi on windows vista to run all of the samples in the book you will need the following windows server 2008 or windows vista internet information services 7 0 iis 7 0 visual studio 2008 rtm either sql server 2000 or sql server 2005 a window s sever 2008 domain running at windows server 2008 functional level this book covers many topics and areas in asp net 2 0 and asp net 3 5 it first introduces internet information services 7 0 iis 7 0 it goes on to explain in detail the new iis 7 0 integrated mode of execution next detailed coverage of how security is applied when the asp net application starts up and when a request is processed in the newly introduced integrated request processing pipeline is discussed after this the book branches out and begins to cover security information for features such as trust levels forms authentication page security and session state this will show you how you can

benefit from the iis 7 0 integrated mode to make better use of asp net features you will also gain an understanding of the lesser known security features in asp net 2 0 and asp net 3 5 in chapter 10 the book changes direction and addresses two security services in asp net 2 0 and asp net 3 5 membership and role manager you will learn about the provider model that underlies each of these features the internals of the feature are also discussed as well as the sql and active directory based providers included with them the discussion of asp net features is continued in chapter 17 which is dedicated to the asp net ajax 3 5 security integration with asp net 3 5 it will also show how to authenticate and authorize users with javascript code written from the client side the book closes with a chapter about the best practices asp net developers should follow to protect their applications from attack chapter 1 starts by refreshing ideas on application pools and worker processes it later gets into the major components that make up iis 7 0 chapter 2 begins by introducing the advantages of the iis 7 0 and asp net integrated mode chapter 3 gives you a walkthrough of the security processing that both iis 7 0 and asp net perform in the integrated unified request processing pipeline chapter 4 defines what an asp net trust level is and how asp net trust levels work to provide secure environments for running web applications chapter 5 covers the security features in the 2 0 and 3 5 frameworks configuration systems chapter 6 explains asp net 2 0 and asp net 3 5 features for forms authentication chapter 7 demonstrates using iis 7 0 wildcard mappings and asp net 2 0 and asp net 3 5 support for wildcard mappings to share authentication and authorization information with classic asp applications chapter 8 covers security features and guidance for session state chapter 9 describes some lesser known page security features from asp net 1 1 and describes how asp net 2 0 and asp net 3 5 options for securing viewstate and postback events chapter 10 gives you an architectural overview of the provider model in both asp net 2 0 and asp net 3 5 chapter 11 talks about the membership feature in asp net 2 0 and asp net 3 5 chapter 12 delves into both the sqlmembershipprovider as well as general database design assumptions that are included in all of asp net 2 0 s and asp net 3 5 s sql based features chapter 13 covers other membership provider that ships in asp net 2 0 and asp net 3 5 activedirectorymembershipprovider chapter 14 describes the role manager feature that provides built in authorization support for asp net 2 0 and asp net 3 5 chapter 15 discusses the sqlroleprovider and its underlying sql schema chapter 16 covers the authorizationstoreroleprovider which is a provider that maps role manager functionality to the authorization manager chapter 17 discusses how asp net ajax 3 5 integrates with asp net 3 5 membership and role management features through newly introduced web services chapter 18 covers the best practices that can be followed to secure asp net applications bilal haidar has authored several online articles for aspalliance com code magazine com and aspnetpro com he is one of the top posters at the asp net forums he has been a microsoft mvp in asp net since 2004 and is also a microsoft certified trainer currently bilal works as a senior developer for consolidated contractors company ccc whose headquarters are based in athens greece stefan schackow the previous author of this book is a program manager on the platform and tools team at microsoft he worked on the new application services stack in visual studio 2005 and owned the membership

role manager profile personalization and site navigation features in asp net 2 0 currently he is working on silverlight for microsoft stefan is a frequent speaker at microsoft developer conferences

this essential book for all software developers regardless of platform language or type of application outlines the 19 deadly sins of software security and shows how to fix each one best selling authors michael howard and david leblanc who teach microsoft employees how to secure code have partnered with john viega the man who uncovered the 19 deadly programming sins to write this much needed book coverage includes windows unix linux and mac os x c c c java php perl and visual basic small client and smart client applications

written by two delphi and net experts this award winning volume gives in depth coverage of the net framework from a delphi developer perspective this edition is completely updated and includes in depth coverage on borland s new clx architecture dbexpress applications soap corba websnap and bizsnap features

any company using net will eventually if it hasn t already expose part of its functionality as a net service and securing these features will become job number one expert services security in the net platform is a comprehensive treatment on how to secure services on the net platform this book specifically focuses on services security not general net security authors brian nantz and laurence moroney lay the foundation for a complete discussion of services security in the net platform by first describing the key aspects of security for the windows operating system internet information services and asp net they show developers how to use the ws security w3c specifications for industry standard authentication encryption authorization xml signature attachments and routing with services the specific working code examples and clear cut explanations will assist developers in readily integrating services security into their applications

this resource is an end to end guide with clear prescriptive guidance for best practices application design and coding techniques for windows and based applications it makes writing secure applications easier than ever before computer books

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Introduction

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