# Pro ASP.NET Web API Security

Securing ASP.NET Web API

LEARN TO SECURE YOUR ASPINET WEB API SERVICES EFFECTIVELY

Badrinarayanan Lakshmiraghavan

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# Pro Asp Net Web Api Security Securing Asp Net Web Api

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# Pro Asp Net Web Api Security Securing Asp Net Web Api:

Pro ASP.NET Web API Security Badrinarayanan Lakshmiraghavan, 2013-03-26 ASP NET Web 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 guickly 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 Web 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 Web 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 Web Token SWT and signed and encrypted ISON Web Token IWT 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 Web API Building RESTful Services Extensibility Points HTTP Anatomy and Security Identity Management Encryption and Signing Custom STS through WIF Knowledge Factors Ownership Factors Web 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 Web Pro ASP.Net Web API Security Leo H. Doyle, 2015-08-12 Thought provoking and accessible in API Security Distilled approach this updated and expanded second edition of the Pro ASP NET Web API Security Securing ASP NET Web 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 **ASP.NET Web API** 2 Recipes Filip Wojcieszyn, 2014-08-07 ASP NET Web API 2 Recipes provides you with the code to solve a full range of Web API problems and question marks that you might face when developing line of business applications ASP NET Web API 2

Recipes gives you an in depth explanation for each of these scenarios and shows you how to use Web API with a vast array of NET application development tools and external libraries to solve common business problems Find out how you can build custom web services with ASP NET Web API more efficiently than ever Practical ASP.NET Web API Badrinarayanan Lakshmiraghavan, 2013-08-19 Practical ASP NET Web API provides you with a hands on and code focused demonstration of the ASP NET Web API in action From the very beginning you ll be writing working code in order to see best practices and concepts in action As the book progresses the concepts and code will become more sophisticated Beginning with an overview of the web service model in general and Web API in particular you ll progress quickly to a detailed exploration of the request binding and response formatting that lie at the heart of Web API You ll investigate various scenarios and see how they can be manipulated to achieve the results you need Later in the book more sophisticated themes will be introduced that will set your applications apart from the crowd You ll learn how you can validate the request messages on arrival how you can create loosely coupled controllers extend the pipeline processing to compartmentalize your code for security and unit testing before being put onto a live hosting server What you ll learn What ASP NET Web API is and how it can be used effectively Ways to optimize your code for readability and performance What controller dependencies are and why they matter How to maintain robust security across your projects Reliable best practices for using Web API in a professional context Who this book is for The book is ideal for any NET developer who wants to learn how the ASP NET Web API framework works in a realistic setting A good working knowledge of C and the NET framework and a familiarity with Visual Studio are the only pre requisites to benefit from this book Table of Contents Building a Basic Web API Debugging HTTP Formatting CLR Objects into HTTP Response Customizing Response Binding HTTP Request into CLR Objects Validating Request Managing Controller Dependencies Extending Pipeline Hosting ASP NET Web API Securing ASP NET Web API Consuming ASP NET Web API Building Performant Web API ASP.NET Web API 2: Building a REST Service from Start to Finish Jamie Kurtz, Brian Wortman, 2014-08-07 The ASP NET MVC Framework has always been a good platform on which to implement REST based services but the introduction of the ASP NET Web API Framework raised the bar to a whole new level Now in release version 2 1 the Web API Framework has evolved into a powerful and refreshingly usable platform This concise book provides technical background and guidance that will enable you to best use the ASP NET Web API 2 Framework to build world class REST services New content in this edition includes New capabilities in Web API 2 currently version 2 1 Support for partial updates or PATCH API versioning Support for legacy SOAP based operations How to handle non resource APIs using REST How to best expose relationships between resources JSON Web Tokens CORS CSRF Get ready for authors Jamie Kurtz and Brian Wortman to take you from zero to REST service hero in no time at all No prior experience with ASP NET Web API is required all Web API related concepts are introduced from basic principles and developed to the point where you can use them in a production system A good working knowledge of C and the NET Framework are the only prerequisites to best

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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 Mastering ASP.NET Web API Mithun Pattankar, Malendra Hurbuns, 2017-08-11 Leverage ASP Net Web API to build professional web services and create powerful applications About This Book Get a comprehensive analysis of the latest specification of ASP NET Core and all the changes to the underlying platform that you need to know to make the most of the web API See an advanced coverage of ASP NET Core Web API to create robust models for your data create controllers and handle routing and security This book is packed with key theoretical and practical concepts that can be instantly applied to build professional applications using API with Angular 4 Ionic and React Who This Book Is For This book is for Net developers who wants to Master ASP NET Core Web API and have played around with previous ASP NET Web API a little but don t have in depth knowledge of it You need to know Visual Studio and C and have some HTML CSS and JavaScript knowledge What You Will Learn Acquire conceptual and hands on knowledge of ASP NET Core MVC Web API Learn about HTTP methods the structure of HTTP content internet media types and how servers respond to HTTP requests and their associated HTTP codes Explore middleware filters routing and unit testing Optimize Web API implementations Develop a secure Web API interface Deploy Web API projects to various platforms Consume your web API in front end application based on Angular 4 Bootstrap and Ionic Implement and explore the current trends in service architecture In Detail Microsoft has unified their main web development platforms This unification will help develop web applications using various pieces of the ASP NET platform that can be deployed on both Windows and LINUX With ASP NET Core Web API it will become easier than ever to build secure HTTP services that can be used from any client Mastering ASP NET Web API starts with the building blocks of the ASP NET Core then gradually moves on to implementing various HTTP routing strategies in the Web API We then focus on the key components of building applications that employ the Web API such as Kestrel Middleware Filters Logging Security and Entity Framework Readers will be introduced to take the TDD approach to write test cases along with the new Visual Studio 2017 live unit testing feature They will also be introduced to integrate with the database using ORMs Finally we explore how the Web API can be consumed in a browser as

well as by mobile applications by utilizing Angular 4 Ionic and ReactJS By the end of this book you will be able to apply best practices to develop complex Web API consume them in frontend applications and deploy these applications to a modern hosting infrastructure Style and approach Using a hands on approach we cover both the conceptual as well as the technical aspects of the ASP NET Core Web API framework **PRO ASP.NET,** KNOWLES,2002-07-28 As ASP NET becomes more widely adopted there is an increasing need for content that goes beyond broad overviews of this technology This book concentrates on describing how XML can be effectively used within ASP NET applications Coverage includes discussion of where and when to use XML detailed discussion of the System XML namespace ADO NET as it relates to ASP NET SQL Server 2000 and SQLXML managed classes and XSLT Furthermore the book specifically spends time highlighting new developments in XML related standards and technologies and performance issues that the advanced ASP NET developer should be aware of <u>Dr. Dobb's Journal</u>, 2007 *MSDN Magazine*, 2007-07 **Software Development**, 2006

Building Web Solutions with ASP.NET and ADO.NET Dino Esposito, 2002 Most Web applications follow a simple 3F pattern fetch format and forward to the browser With this in depth guide you ll take your ASP NET and ADO NET skills to the next level and learn key techniques to develop more complex Web applications Discover how to build applications for ad hoc and effective Web reporting applications that work **PRO.NET FRMWR,** Jeff Gabriel, 2001-09-27 Microsoft s vision for the future NET is a step forward in the evolution of programming that integrates proven and established technologies with the latest innovations This guide helps readers understand in depth the constituent parts of Microsoft s NET framework the Common Language Runtime the engine which drives the core functionality of NET the NET Framework base classes and the ASP NET and Windows application services which utilize those classes across multiple languages **Programming** Microsoft ASP.NET 2.0 Core Reference Dino Esposito, 2006 Build your expertise as you move beyond the basics and delve into the core topics of programming with ASP NET 2 0 Useful to both experienced developers and those developing new skills this ultimate reference is packed with expert guidance hands on programming instruction and practical examples to help you advance your mastery of developing applications for the Web Discover how to Author rich visually consistent pages and manage layout with themes and Master pages Create personalized pages that persist user preferences Retrieve modify and manage data with Microsoft ADO NET Configure the HTTP pipeline to serve ASP NET 2 0 pages Control program flow by tracing and handling exceptions Design caching layers and learn state management techniques to optimize application performance Manage users with membership control registration and authentication capabilities Build real world data access layers using common design patterns Use custom collections with data source controls Learn the internals of grid controls PLUS Get code samples on the Web Pro Asp.net Web Api Ali Uurlu, Alexander Zeitler, 2017-07-04 Microsoft s ASP NET Web API simplifies data delivery through HTTP making it a great platform for building RESTful applications With ASP NET Web API you ll learn the ins and outs of the technology so that you can start building services in no time The book starts with

a high level overview of Web API examining the hosting layer message handler pipeline and controller and delves further into each layer in succinct detail By the end of the book you ll understand how ASP NET Web API handles requests how to set up a route table and how to extend the controller at the center of the API to perform custom actions Beyond data delivery you ll gain some insight into keeping your API secure self hosting or hosting the API on the web and how to create unit tests with it Even if you don't have a thorough knowledge of HTTP you can start using ASP NET Web API simplicity is one of its strengths This updated and expanded second edition of Book 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 all those interested in the subject We hope you find this book useful in shaping your future career Business ASP.NET Web API Security Essentials Rajesh Gunasundaram, 2015-11-27 Take the security of your ASP NET Web 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 Web API 2 0 including the new features of ASP NET Web API such as Cross Origin Resource Sharing CORS and OWIN self hosting Learn various techniques to secure ASP NET Web 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 Web API Who This Book Is For This book is intended for anyone who has previous knowledge of developing ASP NET Web 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 Web API 2 that will help you to secure an ASP NET Web 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 Web API services We then cover ASP NET Web 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 Web API including using SSL client certificates and integrate the ASP NET Identity system with ASP NET Web API Well 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 Web 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 .NET Security Peter Stromquist, Jason Bock, Tom Fischer, Nathan Smith, 2002-07-08 Issues and questions regarding security and the NET Framework are addressed

Information Security: The Complete Reference, Second Edition Mark Rhodes-Ousley, 2013-04-03 Develop and implement an effective end to end security program Today's complex world of mobile platforms cloud computing and ubiquitous data access puts new security demands on every IT professional Information Security The Complete Reference Second Edition previously titled Network Security The Complete Reference is the only comprehensive book that offers vendor neutral details on all aspects of information protection with an eye toward the evolving threat landscape Thoroughly revised and expanded to cover all aspects of modern information security from concepts to details this edition provides a one stop reference equally applicable to the beginner and the seasoned professional Find out how to build a holistic security program based on proven methodology risk analysis compliance and business needs You ll learn how to successfully protect data networks computers and applications In depth chapters cover data protection encryption information rights management network security intrusion detection and prevention Unix and Windows security virtual and cloud security secure application development disaster recovery forensics and real world attacks and countermeasures Included is an extensive security glossary as well as standards based references. This is a great resource for professionals and students alike Understand security concepts and building blocks Identify vulnerabilities and mitigate risk Optimize authentication and authorization Use IRM and encryption to protect unstructured data Defend storage devices databases and software Protect network routers switches and firewalls Secure VPN wireless VoIP and PBX infrastructure Design intrusion detection and prevention systems Develop secure Windows Java and mobile applications Perform incident response and forensic analysis

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