

Web Services Security

Mastering Web Services Security Enterprise Web Services Security (With-Cd) Security for Web Services and Service-Oriented Architectures Web Services Security Development and Architecture: Theoretical and Practical Issues Securing Web Services with WS-Security Web Services Web Services Security Expert Web Services Security in the .NET Platform Web Services Security and E-Business Securing Web Services: Practical Usage of Standards and Specifications WS-Security (Web Services Security, Short WSS): High-impact Strategies - What You Need to Know Web Service Security Core Security Patterns Guide to Secure Web Services Securing Web Services with WS-Security Web Services Enhancements Web Services Business Strategies and Architectures J2EE Security for Servlets, EJBs and Web Services How to Break Web Software Software Development Bret Hartman Rickland Hollar Elisa Bertino Gutierrez, Carlos A. Jonathan B. Rosenberg Mark O'Neill Laurence Moroney Radhamani, G. Perioellis, Panos Kevin Roebuck Jason Hogg Christopher Steel Anoop Singhal Jothy Rosenberg Bill Evjen Mike Clark Pankaj Kumar Mike Andrews

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Architectures J2EE Security for Servlets, EJBs and Web Services How to Break Web
Software Software Development *Bret Hartman Rickland Hollar Elisa Bertino Guti rrez,
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uncovers the steps software architects and developers will need to take in order to plan and build a real world secure services system authors are leading security experts involved in developing the standards for xml and services security focuses on xml based security and presents code examples based on popular ejb and net application servers explains how to handle difficult to solve problems such as passing user credentials and controlling delegation of those credentials across multiple applications companion site includes the source code from the book as well as additional examples and product information

the use of services for business to business b2b and business to consumer b2c transactions has created risks that expose critical assets to increasingly greater threats enterprise services security provides the information developers application architects and security professionals need to build security policies and strategies from the ground up in a services environment most security books focus on computer or network security in isolation relegating the other areas to overview chapters or appendices a single system view of security however is not adequate to describe a distributed services based environment as it causes the developer to have to piece together material from several resources in order to create secure sites and services this book takes a holistic approach that mirrors the perspective developers need to take regardless of whether they are planning and implementing the security mechanisms for a service a site or an enterprise it details how to secure critical components such as workstations servers and networks the goals behind an enterprise s security policies the policies an organization should have in place and how to

communicate those policies using ws policy framework and ws security policy various threats and attacks are also covered as well as the identity management authentication authorization access control confidentiality and integrity mechanisms needed to protect messages and transactions enterprise services security is the one book developers need to make all their security mechanisms work successfully to thwart attacks and protect assets

services technologies are advancing fast and being extensively deployed in many different application environments services based on the extensible markup language xml the simple object access protocol soap and related standards and deployed in service oriented architectures soas are the key to based interoperability for applications within and across organizations furthermore they are making it possible to deploy applications that can be directly used by people and thus making the a rich and powerful social interaction medium the term 2.0 has been coined to embrace all those new collaborative applications and to indicate a new social approach to generating and distributing content characterized by open communication decentralization of authority and freedom to share and reuse for services technologies to hold their promise it is crucial that security of services and their interactions with users be assured confidentiality integrity availability and digital identity management are all required people need to be assured that their interactions with services over the are kept confidential and the privacy of their personal information is preserved people need to be sure that information they use for looking up and selecting services is correct and its integrity is assured people want services to be available when needed they also require interactions to be convenient and personalized in addition to being private addressing these requirements especially when dealing with open distributed applications is a formidable challenge

this book's main objective is to present some of the key approaches research lines and challenges that exist in the field of security in soa systems provided by publisher

you know how to build service applications using xml soap and wsdl but can you ensure that those applications are secure standards development groups such as oasis and w3c have released several specifications designed to provide security but how do you combine them in working applications

explains how to implement secure services and includes coverage of trust confidentiality cryptography authentication authorization and kerberos you ll also find details on security assertion markup language saml xml key management specification xkms xml encryption hypertext transfer protocol reliability http r and more

only up to date book for the latest version of net concentrates on services not general net security describes the key aspects of windows operating system security internet information services security and asp net security laying the foundation for a complete discussion of services security in the net platform shows how to use the ws security w3c specifications for industry standard authentication encryption authorization xml signature attachments and routing with services teaches the reader how to use the new wse services software development kit from microsoft shows how to integrate services security into the applications developers write with specific working code examples and explanations

many techniques algorithms protocols and tools have been developed in the different aspects of cyber security namely authentication access control availability integrity privacy confidentiality and non repudiation as they apply to both networks and systems services security and e business focuses on architectures and protocols while bringing together the understanding of security problems related to the protocols and applications of the internet and the contemporary solutions to these problems services security and e business provides insight into uncovering the security risks of dynamically created content and how proper content management can greatly improve the overall security it also studies the security lifecycle and how to respond to

an attack as well as the problems of site hijacking and phishing

this book collects a complete set of studies addressing the security and dependability challenges of services and the development of protocols to meet them encompassing a complete range of topics including specifications for message level security transactions and identity management it enables libraries to provide researchers an authoritative guide to a most challenging technological topic provided by publisher

ws security services security short wss is a flexible and feature rich extension to soap to apply security to web services it is a member of the ws family of web service specifications and was published by oasis the protocol specifies how integrity and confidentiality can be enforced on messages and allows the communication of various security token formats such as saml kerberos and x 509 its main focus is the use of xml signature and xml encryption to provide end to end security this book is your ultimate resource for ws security services security short wss here you will find the most up to date information analysis background and everything you need to know in easy to read chapters with extensive references and links to get you to know all there is to know about ws security services security short wss right away covering ws security list of web service specifications ws addressing apache axis apache axis2 apache cxf ws basenotification bpel script bpel4people business process execution language celtix ws coordination extensible user interface protocol flow description markup language glassfish metro green pages http services inspection language java api for xml based rpc ws notification ws policy really simple discovery ws reliability ws reliablemessaging ws resource sdep services security kerberos binding single sign on interoperability profile single sign on metadata exchange protocol ws federation active requestor profile ws federation passive requestor profile ws secureconversation ws securitypolicy service choreography simple soap binding profile soap with attachments soap over udp ws topics ws transaction universal description discovery and integration services conversation language services description language services endpoint

language services for remote portlets services invocation framework services semantics white pages uddi ws caf ws cdl ws context ws discovery ws eventing ws federation ws i basic profile ws metadataexchange ws policy4masc ws transfer ws trust xml interface for network services yellow pages uddi security software acunetix advanced intrusion detection environment airsnort apache rampart module assuria auditor astalavista box sk attack surface attack surface analyzer authbind autossh avira beef browser exploitation framework beyondtrust bothunter bsdradius capdesk child exploitation tracking system chkrootkit cisco global exploiter code signing cops software core ftp mini sftp server cosign single sign on cross domain solutions digitalfusion platform eicar test file einstein us cert program employee monitoring software external security manager fail2ban finjan securebrowsing freeotfe freeradius giant antispysware hack trapper hdderase heras af honeypot and forensic analysis tool idle scan incredible internet jboss sso kaspersky mobile security anti keylogger logical security matriux mausezahn md5deep metasploit project microsoft forefront microsoft forefront online protection for exchange microsoft forefront threat management gateway microsoft forefront unified access gateway muffin proxy mywot com neopwn nessus software network security toolkit nikto scanner norton antibot novell access manager object code buffer overrun evaluator paramount defenses permis petname phishtank port scanner proofpoint inc proxy server rapid7 retina vulnerability assessment scanner returnil virtual system rkhunter rootkitrevealer and much more this book explains in depth the real drivers and workings of ws security services security short wss it reduces the risk of your technology time and resources investment decisions by enabling you to compare your understanding of ws security services security short wss with the objectivity of experienced professionals

there are a considerable number of options available to architects and developers when it comes to service security the web service security guide helps developers and architects make the most appropriate security decisions in the context of the solution

s requirements this asset contains reliable accurate guidance on how to design and implement secure services

praise for core security patterns java provides the application developer with essential security mechanisms and support in avoiding critical security bugs common in other languages a language however can only go so far the developer must understand the security requirements of the application and how to use the features java provides in order to meet those requirements core security patterns addresses both aspects of security and will be a guide to developers everywhere in creating more secure applications whitfield diffie inventor of public key cryptography a comprehensive book on security patterns which are critical for secure programming li gong former chief java security architect sun microsystems and coauthor of inside java 2 platform security as developers of existing applications or future innovators that will drive the next generation of highly distributed applications the patterns and best practices outlined in this book will be an important asset to your development efforts joe uniejewski chief technology officer and senior vice president rsa security inc this book makes an important case for taking a proactive approach to security rather than relying on the reactive security approach common in the software industry judy lin executive vice president verisign inc core security patterns provides a comprehensive patterns driven approach and methodology for effectively incorporating security into your applications i recommend that every application developer keep a copy of this indispensable security reference by their side bill hamilton author of ado net cookbook ado net in a nutshell and nunit pocket reference as a trusted advisor this book will serve as a java developers security handbook providing applied patterns and design strategies for securing java applications shaheen nasirudheen cissp senior technology officer jpmorgan chase like core j2ee patterns this book delivers a proactive and patterns driven approach for designing end to end security in your applications leveraging the authors strong security experience they created a must have book for

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this publication of the nist seeks to assist organizations in understanding the challenges in integrating information security practices into soa design and development based on

services this publication also provides practical real world guidance on current and emerging standards applicable to services as well as background information on the most common security threats to soas based on services this document presents information that is largely independent of particular hardware platforms operating systems and applications supplementary security mechanisms i e perimeter security appliances are considered outside the scope of this publication interfaces between services components and supplementary controls are noted as such throughout this document on a case by case basis the document while technical in nature provides the background information to help readers understand the topics that are discussed the intended audience for this document includes the following system and software architects and engineers trained in designing implementing testing or evaluating services software developers experienced in xml c visual basic for net vb net c or java for services security architects engineers analysts and secure software developers integrators researchers who are furthering and extending service interfaces and conceptual designs this document assumes that readers have some minimal services expertise because of the constantly changing nature of services threats and vulnerabilities readers are expected to take advantage of other resources including those listed in this document for more current and detailed information the practices recommended in this document are designed to help mitigate the risks associated with services they build on and assume the implementation of practices described in other nist guidelines listed in appendix f the remainder of this document is organized into five major sections section 2 provides background to services and portals and their relationship to security section 3 discusses the many relevant service security functions and related technology section 4 discusses portals the human user s entry point into the soa based on services section 5 discusses the challenges associated with secure service enabling of legacy applications finally section 6 discusses secure implementation tools and technologies the document also contains several appendices appendix a offers discussion of several attacks commonly leveraged against services

and soas appendix b provides an overview of electronic business extensible markup language ebxml a services protocol suite developed by the united nations centre for trade facilitation and electronic business un cefact appendices c and d contain a glossary and acronym list respectively appendices e and f list print resources and online tools and resources that may be useful references for gaining a better understanding of services and soas security concepts and methodologies and the general relationship between them security division information technology laboratory national institute of standards and technology

comprehensive coverage is given in this up to date practical guide to web service security the first to cover the final release of the the new standards saml 1.1 and ws security

microsoft's services development kit wsdk brings to the table infrastructure protocols with standards to solve services problems such as security and scalability this book will be the first available on this new development tool the author is a member of a select group that microsoft has brought in to work directly with the development team for the wsdk global xml services architecture is the new set of standards for xml services established by several companies including microsoft and sun microsystems wsdk makes working with these standards easier companion site includes sample code and updates including coverage of new tools as they are released

adopting services will affect many processes within any organization to throw light on the most important issues we have commissioned experts in the industry to share their insights the resultant papers cover a broad spectrum from architecture to business strategies without diverting into deep technological fashions each study in the collection will answer specific business challenges thrown up by service architectures before changing commissioning or evaluating a service initiative all it managers system architects lead developers and business visionaries should study and reference this

book

explains security concepts in simple terms and relates these to standards java apis software products and day to day job activities of programmers written by a practitioner who participated in the development of a j2ee app server and services platform at hp applied security measures demonstrated on java apis a unique feature of the book

rigorously test and improve the security of all your software it s as certain as death and taxes hackers will mercilessly attack your sites applications and services if you re vulnerable you d better discover these attacks yourself before the black hats do now there s a definitive hands on guide to security testing any based software how to break software in this book two renowned experts address every category of software exploit attacks on clients servers state user inputs and more you ll master powerful attack tools and techniques as you uncover dozens of crucial widely exploited flaws in architecture and coding the authors reveal where to look for potential threats and attack vectors how to rigorously test for each of them and how to mitigate the problems you find coverage includes client vulnerabilities including attacks on client side validation state based attacks hidden fields cgi parameters cookie poisoning url jumping and session hijacking attacks on user supplied inputs cross site scripting sql injection and directory traversal language and technology based attacks buffer overflows canonicalization and null string attacks server attacks sql injection with stored procedures command injection and server fingerprinting cryptography privacy and attacks on services your software is mission critical it can t be compromised whether you re a developer tester qa specialist or it manager this book will help you protect that software systematically

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