Mastering Web Services Security

Bret Hartman, Donald J Flinn, Konstantin Beznosov, Shirley Kawamoto

Book Summary by Brad Ruppert - February 25, 2009

Web Services provide a new avenue for businesses to extend their products and services to customers and other businesses far beyond what was once possible. This extension enables a business to increase customer loyalty, support increased sales efforts, and increase management of internal information. Along with this additional functionality comes a myriad of security vulnerabilities whereby your business's information is not only available to your customers and employees but potentially the confidentiality and integrity of the information is vulnerable to compromise if the web services are not properly secured. Understanding the available technologies, systems, protocols, and architectures will help ensure the proper security measures are taken to protect information assets, and to enable the business to grow.

There are many benefits for using web services which include increased efficiency and facilitation of real-time processing spanning not only the Internet but a company's extranets and intranets as well. Online financial institutions for example can provide their customers 24x7 accounting functionality, bill paying, funds transferring, and currency trading. Web applications hosted on company extranets can provide real-time data processing, and rule-based decision engines to retrieve, manipulate, and store information across multiple enterprise systems. Universities can leverage intranet knowledge repositories from campuses worldwide to share research findings and get answers to questions from subject matter experts.

The goal of Information Security is to continue to enable the business to function while protecting company assets. In the case of an online financial institution it is of utmost importance to ensure the integrity of the data within the core systems prevent unauthorized transactions or modifications. Within shared extranets, it is important that the availability of the systems remain functional 24x7 so that businesses can continue to operate in their expected fashion. If one system were to fail, it could compromise the functionality of multiple businesses that rely on the shared services of that extranet web service. Protecting the confidentiality of information assets within a corporate or university intranet is important to preventing data theft which could result in monetary or regulatory damages.

Web Services are comprised of several security requirements including authentication, authorization, cryptography, accountability, and security administration. Authentication refers to validating a user or system's (known as a principal) credentials against a known set of credentials to ensure the principal is who the principal claims to be. Authorization is the rule set that determines a principal's access to a system or resources. This is typically determined by the principal's role or authority level within the application. Cryptography provides the algorithms and protocols that protect data against unauthorized disclosure or modification. In the case of web services, cryptography

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Mastering Web Services Security:

 Mastering Web Services Security Bret Hartman,Donald J. Flinn,Konstantin Beznosov,Shirley Kawamoto,2003-02-17 Uncovers the steps software architects and developers will need to take in order to plan and build a real world secure Web services system Authors are leading security experts involved in developing the standards for XML and Web 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 Web site includes the source code from the book as well as additional examples and product information *Securing Web Services: Practical Usage of Standards and Specifications* Periorellis, Panos,2007-10-31 This book collects a complete set of studies addressing the security and dependability challenges of Web 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 <u>Web Services Security Development and Architecture: Theoretical and Practical Issues</u> Gutiⵏrrez, Carlos A.,Fern ndez-Medina, Eduardo,Piattini, Mario,2010-01-31 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 *Network Security* Christos Douligeris,Dimitrios N. Serpanos,2007-06-02 A unique overview of network security issues solutions and methodologies at an architectural and research level Network Security provides the latest research and addresses likely future developments in network security protocols architectures policy and implementations It covers a wide range of topics dealing with network security including secure routing designing firewalls mobile agent security Bluetooth security wireless sensor networks securing digital content and much more Leading authorities in the field provide reliable information on the current state of security protocols architectures implementations and policies Contributors analyze research activities proposals trends and state of the art aspects of security and provide expert insights into the future of the industry Complete with strategies for implementing security mechanisms and techniques Network Security features State of the art technologies not covered in other books such as Denial of Service DoS and Distributed Denial of Service DDoS attacks and countermeasures Problems and solutions for a wide range of network technologies from fixed point to mobile Methodologies for real time and non real time applications and protocols <u>Grid and Cloud Computing: Concepts, Methodologies, Tools and Applications</u> Management Association, Information Resources,2012-04-30 This reference presents a vital compendium of research detailing the latest case studies architectures frameworks methodologies and research on Grid and Cloud Computing <u>Computational and Data Grids: Principles, Applications and Design</u> Preve, Nikolaos,2011-09-30 This book provide relevant theoretical frameworks covering the latest empirical research findings in the area of grid computing with a critical perspective bridging the gap between academia and

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