



Software Security: Building Security In

By Gary McGraw

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"When it comes to software security, the devil is in the details. This book tackles the details."

--Bruce Schneier, CTO and founder, Counterpane, and author of *Beyond Fear* and *Secrets and Lies*

"McGraw's book shows you how to make the 'culture of security' part of your development lifecycle."

--Howard A. Schmidt, Former White House Cyber Security Advisor

"McGraw is leading the charge in software security. His advice is as straightforward as it is actionable. If your business relies on software (and whose doesn't), buy this book and post it up on the lunchroom wall."

--Avi Rubin, Director of the NSF ACCURATE Center; Professor, Johns Hopkins University; and coauthor of *Firewalls and Internet Security*

Beginning where the best-selling book *Building Secure Software* left off, ***Software Security*** teaches you how to put software security into practice. The software security best practices, or touchpoints, described in this book have their basis in good software engineering and involve explicitly pondering security throughout the software development lifecycle. This means knowing and understanding common risks (including implementation bugs and architectural flaws), designing for security, and subjecting all software artifacts to thorough, objective risk analyses and testing.

Software Security is about putting the touchpoints to work for you. Because you can apply these touchpoints to the software artifacts you already produce as you develop software, you can adopt this book's methods without radically changing the way you work. Inside you'll find detailed explanations of

- Risk management frameworks and processes
- Code review using static analysis tools
- Architectural risk analysis
- Penetration testing
- Security testing
- Abuse case development

In addition to the touchpoints, ***Software Security*** covers knowledge management,

training and awareness, and enterprise-level software security programs. Now that the world agrees that software security is central to computer security, it is time to put philosophy into practice. Create your own secure development lifecycle by enhancing your existing software development lifecycle with the touchpoints described in this book. Let this expert author show you how to build more secure software by building security in.

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Editorial Review

Review

"Overall, I reckon this was the best new security book I've seen this year. It certainly made me think more than any other security book I've read recently. I'd consider it a must-buy for the serious practitioner."--Ross Anderson, Professor of Security Engineering, University of Cambridge Computer Laboratory

From the Back Cover

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About the Author

Gary McGraw, Cigital, Inc.'s CTO, is a world authority on software security. Dr. McGraw is coauthor of five best selling books: *Exploiting Software* (Addison-Wesley, 2004), *Building Secure Software* (Addison-Wesley, 2001), *Software Fault Injection* (Wiley 1998), *Securing Java* (Wiley, 1999), and *Java Security* (Wiley, 1996). His new book, *Software Security: Building Security In* (Addison-Wesley 2006) was released in February 2006. As a consultant, Dr. McGraw provides strategic advice to major software producers and consumers. Dr. McGraw has written over ninety peer-reviewed technical publications and functions as principal investigator on grants from DARPA, National Science Foundation, and NIST's Advanced Technology Program. He serves on Advisory Boards of Authentica, Counterpane, and Fortify Software, as

well as advising the CS Department at UC Davis, the CS Department at UVa, and the School of Informatics at Indiana University. Dr. McGraw holds a dual PhD in Cognitive Science and Computer Science from Indiana University and a BA in Philosophy from UVa. He is a member of the IEEE Security and Privacy Task Force, and was recently elected to the IEEE Computer Society Board of Governors. He is the producer of the Silver Bullet Security Podcast for *IEEE Security & Privacy* magazine, writes a monthly column for darkreading.com, and is often quoted in the press.

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