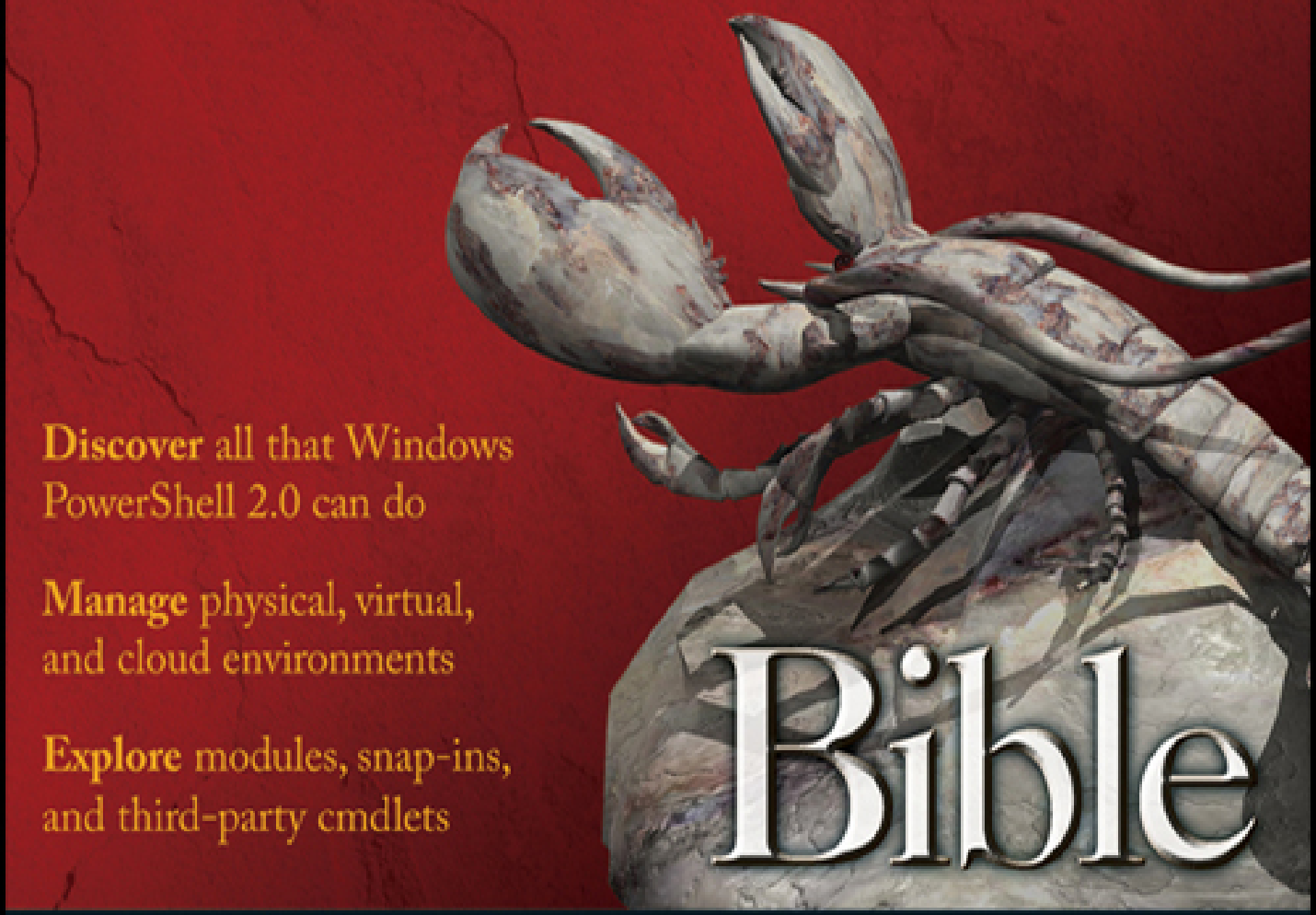
Companion Web Site

- Helpful code listings, so you can follow along
- Supplemental code snippets

Thomas Lee, Karl Mitschke, Mark E. Schill, Tome Tanasovski

Windows PowerShell™ 2.0



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Windows PowerShell® 2.0 Bible

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Thomas Lee
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My work on this project is dedicated to Susan, my wife, for her patience, affection, and outstanding proofreading skills. I could not have done it without her. To my godmother, Alberta Stehle, and my aunt, Mrs. James Wright, for their inspiration.
— Thomas Lee

My work on this book is dedicated to my best friend, the love of my life, my bride, Sherry. Without your faith and constant support, I'd still be staring at a blank Word document. Thanks for always believing in me.
— Karl Mitschke

My work on this book is dedicated to my wife, Carla. It is with her support and constant encouragement that I have been able to be where I am today.
— Mark E. Schill

My work on this book is dedicated to my ladies. To my wife, Heather, who is and will always be the love of my life and my best friend, I'm sorry if you felt like a single mother at times while I was working on this. To my daughter Elora, who made sure that I took breaks from writing, and to my unborn daughter who we have yet to name, I hope this book serves as an inspiration that you can do anything you want in this world with enough hard work and commitment.
— Tome Tanasovski

About the Authors

Thomas Lee is an IT industry veteran. Thomas graduated from Carnegie Mellon University in 1973, and has had a number of interesting assignments over the decades. Today, he consults, writes, and provides training mainly on Microsoft technologies, including Lync and Windows PowerShell. He has also been a speaker at major IT conferences over the past two decades.

A Microsoft Certified Trainer for 17 years and an MVP for 16 of the past 17 years, Thomas was the first person in the world to blog about Windows PowerShell in 2003. He has also been involved with the Windows PowerShell community since its inception and is a director of PowerShellCommunity.org.

Thomas was part of the team that wrote both official Microsoft Windows PowerShell classes and has taught clients around the world to use the product. He writes two blogs, Under The Stairs (at `http://tfl09.blogspot.com`) and PowerShell Scripts Blog (at `http://pshscripts.blogspot.com`), is active on Twitter (`@doctordns`), and hosts online forums. In his spare time, he lives in an old cottage in the English countryside with his wife Susan, daughter Rebecca, a fine wine cellar, and large collection of Grateful Dead live recordings.

Karl Mitschke is a Systems Engineer for the State of Montana. His primary focus is Microsoft Exchange Server administration, with a strong emphasis on Windows PowerShell. Karl was awarded the Microsoft Community Contributor award for his contributions in Microsoft online community forums.

With more than 25 years of IT experience and extensive experience creating utility programs in C# and Visual Basic, Karl has been working with Windows PowerShell since the public beta was available. He has worked with Microsoft Exchange since Version 5.0 and was a Banyan Vines email administrator previous to that. Karl currently works with Microsoft Exchange Server 2010 SP1, System Center Operations Manager 2007 R2, and SQL Server 2008.

Karl is a frequent contributor on multiple scripting forums and blogs. You can follow his comments on `http://unlockpowershell.wordpress.com/`.

Mark E. Schill, a graduate of the Georgia Institute of Technology, is an IT veteran with 13 years of experience specializing in Windows server and Citrix technologies. He started scripting with a Y2K project that required the creation of thousands of new NT domain accounts and has been automating ever since. He made the switch to Windows PowerShell in July 2007 with his first Citrix MFCOM script for publishing desktops, which is still in production to this day. Mark spends his workdays as an all-in-one scripter, C# developer, SQL Server database administrator, and Windows system administrator.

About the Authors

He is currently the president of the Atlanta PowerShell User Group and the Atlanta Citrix User Group, as well as the vice president of the Virtual PowerShell User Group.

When possible, Mark hangs out with the Virtual PowerShell User Group on the #PowerShell IRC channel on `irc.freenode.net`. You can track Mark at his blog at `www.cmschill.net/StringTheory`, contact him via email at `Mark.Schill@cmschill.net`, or follow him on twitter `@meson3902`.

Tome Tanasovski is a Windows engineer for a market-leading, global financial services firm in New York City. He has worked in the IT industry as both an IT professional and a developer for more than 15 years. He is the founder and leader of the New York City PowerShell User Group, a cofounder of the NYC Techstravaganza, a blogger, a speaker, and a regular contributor to the Windows PowerShell forum at Microsoft. He is a recipient of the MVP award for Windows PowerShell.

About the Technical Editors

Marco Shaw has worked in the IT industry for more than 12 years. He currently is an IT consultant in Canada with CGI (`www.cgi.com`), a global IT consulting firm. Marco works daily with Microsoft products, VMware, and other products that heavily rely on Windows PowerShell for automation of their tasks.

Marco has been awarded the Microsoft Most Valuable Professional award in the Windows PowerShell category for the past four years, and he continues to be active in the online Windows PowerShell community. He has spoken at TechMentor in the U.S. and has given several sessions at Microsoft's TechDays annual conference in Canada (`www.techdays.ca`) on various IT topics. Marco has already coauthored a book and appeared in Microsoft's *TechNet Magazine* a few years ago. He blogs at `http://marcoshaw.blogspot.com` and tweets as `@MarcoShaw`.

Shay Levy is a four-year Windows PowerShell MVP and a System Administrator for a government institute in Israel. He has worked with Microsoft platforms for more than 20 years, focusing on Microsoft Exchange and Active Directory.

As a longtime Windows PowerShell community supporter, Shay has become a moderator of multiple forums and is a codirector of the PowerShellCommunity.org website. He is the creator of the popular Windows PowerShell Community browser toolbar, a one-stop shop for various Windows PowerShell resources, including downloads, webcasts, videos, podcasts, and more.

Shay often covers Windows PowerShell topics on his blog at `http://powershay.com`. You can also follow him on Twitter at `http://twitter.com/ShayLevy`.

We appreciate the assistance of the following individuals for lending their expertise to the technical editing of specific chapters: Niklas Goude (Microsoft MVP) for the SharePoint chapter, Chad Miller (Microsoft MVP) for the SQL chapter, and Christian Gehring (Citrix) for the two Citrix chapters.

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— Thomas Lee, Karl Mitschke, Mark E. Schill, and Tome Tanasovski

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— Thomas Lee

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— Karl Mitschke

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— Mark E. Schill

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— Tome Tanasovski