

Join the discussion @ p2p.wrox.com



Wrox Programmer to Programmer™



Professional

SharePoint® 2013 Administration

Shane Young, Steve Caravajal, Todd Klindt

PROFESSIONAL SHAREPOINT® 2013 ADMINISTRATION

INTRODUCTION	xix
CHAPTER 1 What's New in SharePoint 2013.....	1
CHAPTER 2 Architecture and Capacity Planning.....	17
CHAPTER 3 Installing and Configuring SharePoint.....	57
CHAPTER 4 Understanding Service Applications.....	97
CHAPTER 5 Upgrading to SharePoint 2013.....	125
CHAPTER 6 Claims Authentication and OAuth.....	165
CHAPTER 7 Administering SharePoint with Windows PowerShell.....	191
CHAPTER 8 Configuring SharePoint for Business Intelligence.....	231
CHAPTER 9 Configuring SharePoint for High-Availability Backups.....	303
CHAPTER 10 Managing SharePoint Developer Solutions and Features.....	345
CHAPTER 11 Managing and Configuring Apps.....	369
CHAPTER 12 Branding SharePoint.....	407
CHAPTER 13 Configuring and Managing Enterprise Search.....	449
CHAPTER 14 Configuring User Profiles and Social Computing.....	503
CHAPTER 15 The Office Web Applications for SharePoint.....	545
CHAPTER 16 Installing and Configuring Azure Workflow Server.....	579
CHAPTER 17 Integrating Office Clients with SharePoint.....	613
CHAPTER 18 Working with SharePoint Designer.....	649
CHAPTER 19 Troubleshooting SharePoint.....	675
CHAPTER 20 Monitoring and Analytics.....	701
CHAPTER 21 Configuring and Managing Web Content Management and Internet Sites.....	719
INDEX	773

PROFESSIONAL

SharePoint® 2013 Administration

PROFESSIONAL

SharePoint® 2013 Administration

Shane Young
Steve Caravajal
Todd Klindt



Professional SharePoint® 2013 Administration

Published by
John Wiley & Sons, Inc.
10475 Crosspoint Boulevard
Indianapolis, IN 46256
www.wiley.com

Copyright © 2013 by John Wiley & Sons, Inc., Indianapolis, Indiana

Published simultaneously in Canada

ISBN: 978-1-118-49581-0
ISBN: 978-1-118-49580-3 (ebk)
ISBN: 978-1-118-65504-7 (ebk)
ISBN: 978-1-118-65471-2 (ebk)

Manufactured in the United States of America

10 9 8 7 6 5 4 3 2 1

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as permitted under Sections 107 or 108 of the 1976 United States Copyright Act, without either the prior written permission of the Publisher, or authorization through payment of the appropriate per-copy fee to the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, (978) 750-8400, fax (978) 646-8600. Requests to the Publisher for permission should be addressed to the Permissions Department, John Wiley & Sons, Inc., 111 River Street, Hoboken, NJ 07030, (201) 748-6011, fax (201) 748-6008, or online at <http://www.wiley.com/go/permissions>.

Limit of Liability/Disclaimer of Warranty: The publisher and the author make no representations or warranties with respect to the accuracy or completeness of the contents of this work and specifically disclaim all warranties, including without limitation warranties of fitness for a particular purpose. No warranty may be created or extended by sales or promotional materials. The advice and strategies contained herein may not be suitable for every situation. This work is sold with the understanding that the publisher is not engaged in rendering legal, accounting, or other professional services. If professional assistance is required, the services of a competent professional person should be sought. Neither the publisher nor the author shall be liable for damages arising herefrom. The fact that an organization or Web site is referred to in this work as a citation and/or a potential source of further information does not mean that the author or the publisher endorses the information the organization or Web site may provide or recommendations it may make. Further, readers should be aware that Internet Web sites listed in this work may have changed or disappeared between when this work was written and when it is read.

For general information on our other products and services please contact our Customer Care Department within the United States at (877) 762-2974, outside the United States at (317) 572-3993 or fax (317) 572-4002.

Wiley publishes in a variety of print and electronic formats and by print-on-demand. Some material included with standard print versions of this book may not be included in e-books or in print-on-demand. If this book refers to media such as a CD or DVD that is not included in the version you purchased, you may download this material at <http://booksupport.wiley.com>. For more information about Wiley products, visit www.wiley.com.

Library of Congress Control Number: 2012955720

Trademarks: Wiley, the Wiley logo, Wrox, the Wrox logo, Wrox Programmer to Programmer, and related trade dress are trademarks or registered trademarks of John Wiley & Sons, Inc. and/or its affiliates, in the United States and other countries, and may not be used without written permission. SharePoint is a registered trademark of Microsoft Corporation. All other trademarks are the property of their respective owners. John Wiley & Sons, Inc., is not associated with any product or vendor mentioned in this book.

I dedicate this book to my wonderful wife, Rosemary.

I'm not sure I understand how or why you put up with me, and the writing of yet another book. Words cannot express my appreciation. I love you a lot!

—STEVE

I would like to dedicate this book to my beautiful wife, Jill. Just today she reminded me that after the last book I told her to never let me write another book, and here we are. I would not have been able to hold it together long enough to finish this book without her support. Thanks, babe, I love you.

—TODD

This book is dedicated to Baby Luke. Howdy. Funny enough, you are nine months old as I write these words. I have doubts that by the time you are old enough to read this book that paper books will even exist anymore. Either way, take a look at this old relic and smile and know all things are possible with your friend hard work. Dad got a D- in English and yet this is book number six for him. You and your brother better get better grades than me. Your mother and I love you.

—SHANE

ABOUT THE AUTHORS



STEVE CARAVAJAL is director of productivity solutions and lead architect with the Microsoft Corporation. Steve has 25+ years' experience in technology leadership, strategy, product development, consulting, and training. Dr. Caravajal works with large enterprise companies, and his focus includes architecting solutions that include SharePoint, enterprise social computing, business intelligence, search, and cloud-based applications. He also advises several local companies on Enterprise strategy.

Steve holds a bachelor of science degree in chemistry and mathematics, and a doctoral degree in chemistry and computer science. He is an adjunct professor at a couple of local universities in the Cincinnati area, teaching Enterprise Architecture, public and private cloud technology, and software development. In addition to holding several patents and speaking at conferences, Steve has written four books: *SharePoint 2007 and Office Development Expert Solutions*, *Inside SharePoint 2007 Administration*, *Professional SharePoint 2010 Administration*, and *Professional SharePoint 2013 Administration*.



TODD KLINDT has been a professional computer nerd for nearly 20 years, specializing in SharePoint for the last 10 years. His love affair with SharePoint began one slow day at the office when he discovered SharePoint Team Services 1.0 on the Office XP CD that was holding up his coffee cup, and he decided to take it for a spin. The rest is history. Since then, he has had the pleasure of working with SharePoint farms both large and small. In 2006 he was honored to be awarded the MVP award from Microsoft for

Windows SharePoint Services, and he has written several books and magazine articles on SharePoint. Todd has presented sessions on SharePoint at many major conferences both in the United States as well as Europe and Asia, and does the user group circuit, SharePoint Saturday events, and the occasional children's birthday party as well. He chronicles his SharePoint adventures on his blog, www.toddklindt.com/blog. Because his chosen career as a Hollywood stuntman didn't pan out, he is currently working his dream job as a SharePoint consultant at Rackspace, where he spends his days fixing broken SharePoint environments and bringing new SharePoint environments into the world, along with the occasional nap at his desk. If you're bored, you can follow him on Twitter @toddklindt.



SHANE YOUNG is just your average SharePoint nerd who has been doing nothing but SharePoint for a long time now. Microsoft has been kind enough to award him MVP status for eight years running now, so you know he is the outspoken type. Thankfully, his newest employer, Rackspace, appreciates that about him. If you are wondering what happened to SharePoint911, don't worry; the band is still together, we are just flying the Rackspace flag these days, bringing fanatical SharePoint to

the open cloud. You can contact Shane on Facebook, LinkedIn, Twitter (@ShanesCows), via e-mail (shane.young@rackspace.com), his blog (<http://msmvps.com/shane>), or through his company's website (www.SharePoint911.com or SharePoint.Rackspace.com). Shane lives in Cincinnati, Ohio, with his wife, Nicola, his two sons, Grant and Luke, and their two dogs.

ABOUT THE TECHNICAL EDITORS

BRIAN CAAUWE is a SharePoint 2010 MCM and has been working with the SharePoint platform since 2007. He typically walks the tightrope between administration and development as a senior SharePoint consultant, with a focus on systems architecture, security, migrations, and integration strategies with Avtex Solutions.

Brian came to the SharePoint world from a network administration background working with Active Directory, SQL Server, Exchange, Citrix, and many other proprietary applications. Armed with this administration baseline, and a pre-existing passion for web development, his skills were a perfect match for SharePoint.

SEB MATTHEWS is a Microsoft architect with over 20 years' experience working with mid-tier and enterprise organizations. He is currently providing consultancy services to businesses that want to utilize Microsoft technologies in big-data, cloud, and business-critical scenarios, architecting information repositories, portals, and business process management platforms.

A frequent speaker at conferences and community events, Matthews is also an active member of the SharePoint community in Europe, Africa, and the U.S.A. When he isn't SharePointing, he enjoys the outdoors, being a geek, and spending time with his wife, young son, and Barney the dog.

STEPHEN WILSON has worked as a technical resource in a number of industries such as retail, financial, and higher education. Over the last six years he has been devoted to training and consulting on SharePoint and related technologies. He has extensive experience with presenting, developing documentation, and training programs. As a consultant, his focus has been on installation and infrastructure. Recently, Stephen has become more involved with presenting at SharePoint events.

CREDITS

ACQUISITIONS EDITOR

Mary James

SENIOR PROJECT EDITOR

Ami Frank Sullivan

CONTRIBUTING AUTHORS

Joe Baeza

Javier Barrera

Nate Baum

Corey Jason Burke

Mike Dalton

Jeff DeVerter

Tyler Durham

Steven Gorrell

Tavis Lovell

Ryan Samson Keller

Jonathan Mast

Mark Watts

Stephen Wilson

TECHNICAL EDITORS

Brian Caauwe

Seb Matthews

Stephen Wilson

PRODUCTION EDITOR

Daniel Scribner

COPY EDITOR

Luann Rouff

EDITORIAL MANAGER

Mary Beth Wakefield

FREELANCER EDITORIAL MANAGER

Rosemarie Graham

ASSOCIATE DIRECTOR OF MARKETING

David Mayhew

MARKETING MANAGER

Ashley Zurcher

BUSINESS MANAGER

Amy Knies

PRODUCTION MANAGER

Tim Tate

VICE PRESIDENT AND EXECUTIVE GROUP**PUBLISHER**

Richard Swadley

VICE PRESIDENT AND EXECUTIVE PUBLISHER

Neil Edde

ASSOCIATE PUBLISHER

Jim Minatel

PROJECT COORDINATOR, COVER

Katie Crocker

PROOFREADERS

Sarah Kaikini, Word One

Jennifer Bennett, Word One

INDEXER

Ron Strauss

COVER DESIGNER

Wiley

COVER IMAGE

© 4FR/iStockphoto

BACKGROUND

© PhotoAlto Images/Fotosearch

ACKNOWLEDGMENTS

THANKS, NICOLA! Yes, once again you are up for the wife of the year award for putting up with another book writing — and this time we have two kids. How crazy is that? Grant and Luke are lucky to have you for a mommy! I would feel bad to again forget mentioning the other two boys, so just in case Tyson or Pugsley learn how to read: Hello, doggies.

To my fellow authors: Good job, guys. We once again managed to get a masterpiece out the door without killing each other. That is some kind of miracle. I am certain one of you will want to write another book sooner or later, so I will go ahead and start getting an outline together. *Ugh.*

Hey, all of you contributors: Good work! I know it is annoying trying to work with us but hopefully the result is worth it. I know that Todd, Steve, and I really appreciate it and the book wouldn't be nearly as good without you guys. One person I want to call out specifically is Stephen Wilson, who carried multiple torches with his content creation and tech editing. Thanks, Stephen. You are a heck of a guy; I don't care what Todd says. The key point here is Rackers rule!

Wiley folks! Thank you. I know we are a pain in the butt to work with but the end product looks great. Ami and Mary, I feel the worst for you two because you have to battle us and then work with us at the same time. Sorry. And Jim? Yeah. Not sure how many grey hairs you have with our names on them but I am certain they are many. Thanks for continuing to love us.

I love you, little Sparky!

—SHANE

WELL, THIS BRINGS US to the close of another SharePoint book. I guess I should thank my partners, Shane and Todd, but since they didn't do any of the writing — oops sorry, one chapter each — thanks guys, you are a big help! One of the best experiences in the world is writing a book, but unfortunately one of the worst experiences is writing a book. So, I should definitely thank our Wiley task masters, Mary and Ami, who worked to keep us in line and productive. If you've ever tried to herd cats, you'll know what their experience was like, so thank you very much; we couldn't have done it without you. As always, the technical editors and the contributing authors played a very big role, so thank you very much for all your help! And last, but definitely not least, I want to thank my beautiful and wonderful wife, Rosemary. I know that I tell you I'm not going to do this again, and yet I continue to do it again. Thank you so much for your support and patience.

—STEVE

MY PORTION OF THIS book would not have been possible without the support of my lovely wife, Jill. Thanks again. You endured another year of me writing a book, and even worse, a year of me whining about writing a book. You kept the kids clothed and fed, and the house running. I appreciate it. You're my rock.

I am contractually required to thank my coauthors. Thanks, Shane and Steve, for putting up with me for another book. Once again, we all vowed to never do this again, and once again the lure of fame and fortune ruled out over common sense. Now it's time for the supporting tour and movie deals. I hope you're both ready. I know I am.

This book would not be as awesome as it is without the help of some very dedicated contributing authors. They did a great job writing chapters and keeping us on our toes. Thanks, guys.

Finally, this book would have stalled multiple times if it weren't for the tenacity and nagging of Wiley folks. Many times they had to bring us kicking and screaming back on task. A special shout out to Ami and Mary, who put up with a lot of missed deadlines. Sorry about that. It's all in now, though.

—TODD

CONTENTS

<i>INTRODUCTION</i>	<i>xxix</i>
CHAPTER 1: WHAT'S NEW IN SHAREPOINT 2013	1
Installation Changes	2
System Requirements	2
The Installation Process	2
Upgrading from SharePoint 2010	3
Patching	3
Central Administration	4
Service Applications	5
Claims and Authentication	8
Managing SharePoint 2013 with Windows PowerShell	10
SharePoint Apps	10
Workflow Manager	11
New User Experience	12
Faster	12
Prettier	13
Getting Social	14
Summary	15
CHAPTER 2: ARCHITECTURE AND CAPACITY PLANNING	17
Names, Names, My Kingdom for a Consistent Name!	19
SharePoint Foundation	19
SharePoint Server 2013	20
Search Server Express	22
FAST Search Server 2010	22
SharePoint Online	23
Additional Server Planning	24
Windows Server and Required Additional Software	24
Windows Vista, 7, and 8	25
SQL Server	26
E-mail Servers and SMS Options	26
Hardware Requirements	28
Web Servers	29
Application Servers	30

SQL Servers	40
Mixing and Matching Servers	41
Other Hardware Notes	46
Virtualization	47
Terminology	48
Controlling Deployments	52
HTTP Throttling	52
Large List Throttling	53
Recycle Bin Architectural Implications	54
Software Boundaries and Limits for SharePoint 2013	55
Summary	56
CHAPTER 3: INSTALLING AND CONFIGURING SHAREPOINT	57
<hr/>	
Preparing the Environment	57
Logging In and Mounting the File	58
Running the Prerequisite Installer	59
Adding Forgotten Patches	60
Windows Server 2008 R2	61
Windows Server 2012	61
Running Setup	61
Automating Setup	62
Creating the Farm	63
Adding More Servers to the Farm	65
Configuring the Farm	66
Creating Web Applications and More	90
Terminology	90
Web Applications	91
Site Collections and Webs	93
Summary	95
CHAPTER 4: UNDERSTANDING SERVICE APPLICATIONS	97
<hr/>	
A History of Service Applications in SharePoint	98
Service Application Fundamentals	99
The Connection Structure	100
Connecting Across Farms	105
Service Applications As a Framework	107
Service Application Administration	107
Creating a New Instance of a Service Application	107
Using the Ribbon to Manage Service Applications	109
Managing Service Application Proxy Groups	112

Multi-Tenancy in SharePoint 2013	118
Managing Service Application Groups	118
Creating a Site Subscription	120
Multi-Tenant Use Cases	121
Partitioning in the Enterprise	121
Summary	123
CHAPTER 5: UPGRADING TO SHAREPOINT 2013	125
<hr/>	
Upgrade Considerations	125
What You Can Upgrade	125
What You Can't Upgrade	130
Don't Upgrade Crap	131
Upgrading Content	135
Creating the Web Application	135
Testing the Content Database	137
Attaching the Content Database	143
Upgrading Site Collections	146
Throttling and Governance	156
Upgrading Service Applications	157
Business Connectivity Services	158
Managed Metadata	158
Performance Point	159
Search	160
Secure Store	161
User Profile Service	162
Using Third-Party Tools to Migrate Content	163
Upgrading from Older Versions	163
Restructuring Your Farm	163
Choosing Third-Party Migration Software	164
Summary	164
CHAPTER 6: CLAIMS AUTHENTICATION AND OAUTH	165
<hr/>	
What's New with Claims and Authorization?	166
Migrating from Classic to SharePoint 2013 Claims	166
Authentication Infrastructure	167
OAuth	167
Server-to-Server Authentication	168
User Authentication	168
Claims-Based Identity	169
Using Claims-Based Identity	171

Application Authentication	180
Cloud App Model	180
OAuth	181
App Authentication	182
Server-to-Server Authentication	188
SharePoint to SharePoint S2S	189
SharePoint to Exchange and Lync S2S	189
Summary	190
CHAPTER 7: ADMINISTERING SHAREPOINT WITH WINDOWS POWERSHELL	191
<hr/>	
Introduction to Windows PowerShell	192
Microsoft SharePoint 2013 Management Shell and Other Hosts	192
Microsoft SharePoint 2013 Management Shell	192
Using Other Windows PowerShell Hosts	193
Commands	195
Cmdlets	195
Functions	196
Scripts	197
Native Commands	198
Basic PowerShell Usage	198
Listing the SharePoint Commands	198
PowerShell Help	200
PowerShell Variables	201
PowerShell Objects	203
PowerShell Pipeline	203
Controlling Output	204
Using SharePoint Commands	207
Working with the Farm	207
Working with the Farm Configuration	208
Web Applications	209
Working with Site Collections	212
Working with Webs	217
Working with Objects Below the Web Level	219
Disposing of SharePoint Variables	223
Some Sample PowerShell Scripts	225
Creating Your SharePoint 2013 Farm with PowerShell	225
Creating Managed Accounts and Service Application Pools	227

Creating the Search Service Application in SharePoint 2013 Server	227
Creating a Claims Web Application	228
Getting Site Collection Size	229
Summary	229
CHAPTER 8: CONFIGURING SHAREPOINT FOR BUSINESS INTELLIGENCE	231
Installing SQL Server Analysis Services	232
Installing SSAS and Data Tools	232
Deploying AdventureWorks	237
Creating a Business Intelligence Center	242
Configuring Excel Services	243
Configuring the Excel Services Service Application	244
Configuring Excel Services to Use the Secure Store	245
Testing the Excel Services Unattended Service Account	248
PowerPivot 2012	250
Installing PowerPivot	251
Configuring PowerPivot Integration	255
Adding Permissions to Central Administration	258
Creating and Configuring a PowerPivot Workbook	259
SQL Server Reporting Services for SharePoint 2013	264
Creating the Service Application	268
Creating and Deploying an SSRS Report	268
PowerView	274
Configuring PerformancePoint Services	275
Configuring PerformancePoint Services to Use the Secure Store	277
Testing the PerformancePoint Services Unattended Service Account	279
Configuring Visio Services	285
Configuring the Visio Unattended Service Account	285
Configuring the Visio Graphics Service Application	286
Introduction to Access 2013	290
Prerequisites	291
Items to Consider for Access 2013	291
Configuring an Isolated App Domain	291
Microsoft SQL Server 2012 Required Features for Access Services 2013	292
Microsoft SQL Server 2012 Options Required for Use with Access Services 2013	292

Service Account Permissions	295
Creating the Access Services 2013 Service Application	296
Setting SQL Permissions for Your Service Account	298
Configuring IIS	299
Creating a Custom Web App Using Access 2013 Client	300
Summary	302
CHAPTER 9: CONFIGURING SHAREPOINT FOR HIGH-AVAILABILITY BACKUPS	303
<hr/>	
Determining Your Business Requirements	303
Content Recovery	305
Content Storage Overview	306
Version History	306
The Recycle Bin	310
Exporting and Importing Sites, Lists, and Libraries	313
Backing Up and Restoring Site Collections	318
Recovering from SQL Server Snapshots	324
Backing Up and Recovering from Disaster	325
Backing Up and Restoring Content Databases	326
Backing Up and Restoring Service Applications	333
Backing Up the Farm	335
Backing Up IIS	337
Backing Up Customizations	338
High-Availability Configurations	339
Load-Balancing	339
SQL AlwaysOn Failover-Clustering	340
SQL Server AlwaysOn Availability Groups	340
HTTP Request Throttling	341
Gradual Site Deletion	343
Summary	343
CHAPTER 10: MANAGING SHAREPOINT DEVELOPER SOLUTIONS AND FEATURES	345
<hr/>	
Defining Solutions and Features	345
Understanding Farm Solutions	346
Managing Farm Solutions	348
Managing Farm Solutions via the User Interface	349
Managing Farm Solutions via the Command Line	353
Understanding Sandbox Solutions	355
Managing Sandbox Solutions	356
Understanding Features	358

Feature Manifest	359
Defining Scope	360
Feature Receivers	360
Managing Features	361
Managing Features via the User Interface	361
Managing Features via the Command Line	365
Summary	368
CHAPTER 11: MANAGING AND CONFIGURING APPS	369
Understanding the SharePoint 2013 App	371
Architecture	371
SharePoint 2013 App Marketplaces	372
SharePoint 2013 App Hosting Options	373
App Model Security	376
Setting Up an App-Enabled SharePoint Environment	377
Configuring a Forward Lookup Zone in DNS	378
Configuring SSL for the App Domain (Optional)	381
Configuring the Service Applications	381
Configuring App URLs	382
Setting Up a High-Trust App Environment	384
Managing SharePoint 2013 Apps	392
Configuring an App Catalog	392
Adding an App to a SharePoint Site	394
Removing an App from a SharePoint Site	399
Monitoring SharePoint Apps	400
Monitoring and Managing App Licenses	403
Summary	406
CHAPTER 12: BRANDING SHAREPOINT	407
What Is Branding?	407
Branding Considerations	409
SharePoint and Publishing	410
Components of SharePoint Branding	412
Master Pages	413
Page Layouts and Wiki Pages	414
HTML, Cascading Style Sheets, and More	416
What's New in Branding for SharePoint 2013	416
Composed Looks	416
Device Channels	419
Image Renditions	424

Display Templates	427
Improving Speed with Minimal Download Strategy	428
Design Manager	429
Understanding the SharePoint 2013 Branding Process	430
Using the Design Manager	430
Deploying Branding Assets	444
Customizing SharePoint Files	444
Upgrading Branding to SharePoint 2013	445
Controlling Access to SharePoint Branding	446
Summary	447
CHAPTER 13: CONFIGURING AND MANAGING ENTERPRISE SEARCH	449
What's New in Enterprise Search	449
Single Search Architecture	450
Search Center and Search UI	450
Relevancy Improvements	450
Search Architecture	451
Topology	452
Managing the Crawl Process and Crawled Properties	453
Content Processing	454
Analytics Processing	456
Index Processing	459
Query Processing, Query Rules, and Result Sources	460
Administration	460
Configuring Enterprise Search	461
Scaling Out Topology	461
Continuous Crawl and Content Sources	469
Result Sources	474
Managing the Search UI	477
Search Center	477
Customizing the UI	486
Summary	500
CHAPTER 14: CONFIGURING USER PROFILES AND SOCIAL COMPUTING	503
What's New in Enterprise Social?	504
My Sites	504
Distributed Cache	506
Communities	506

- [download online *Boy in the Twilight*](#)
- [click Practice Makes Perfect: Complete French All-in-One \(Practice Makes Perfect Series\)](#)
- [download online *Jurgen: A Comedy of Justice \(The Biography of Manuel, Book 7\)*](#)
- [download *The Lost Art of Dress: The Women Who Once Made America Stylish* pdf, azw \(kindle\), epub, doc, mobi](#)
- [download online *The Art of Closing the Sale: The Key to Making More Money Faster in the World of Professional Selling* pdf, azw \(kindle\)](#)
- [click *The Wanderers* pdf, azw \(kindle\), epub](#)

- <http://www.celebritychat.in/?ebooks/The-Wedding-Trap--The-Trap-Trilogy--Book-3-.pdf>
- <http://schrolf.de/books/More-Brilliant-Than-the-Sun--Adventures-in-Sonic-Fiction.pdf>
- <http://pittiger.com/lib/Waffles--Crepes-and-Pancakes.pdf>
- <http://transtrade.cz/?ebooks/Rainbow-s-End--False-Investigations--Book-13-.pdf>
- <http://pittiger.com/lib/Nathan-s-Run.pdf>
- <http://monkeybubblemedia.com/lib/The-Wanderers.pdf>