



# Windows Server 2016: Storage Solutions: Tech Artisans Library for Windows Server 2016

*William Stanek*

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**The in-depth, authoritative reference for intermediate to advanced IT professionals.**

Windows Server 2016: Storage Solutions provides solutions, workarounds, tips, and insights for IT pros working with Windows Server 2016. This exhaustive and comprehensive work provides a deep dive into the operating system that will teach you how to squeeze every last bit of power and make the most of the features and programs available.

Inside this superbly organized guide, packed with expert advice, you'll find hundreds of timesaving solutions for managing and maintaining Windows Server 2016. Topics covered in this book include:

- Configuring File Services
- Installing Disks and Storage
- Managing Bit Locker Drive Encryption
- Configuring Storage Roles and Features
- Working with NTFS and ReFS
- Using Storage Spaces and Storage Replicas
- Maintaining and Optimizing Storage
- Using Data Deduplication
- Implementing File Sharing
- Managing File Security, Access Controls and Auditing
- Using Claims-based Controls, File Screening and Storage Reporting
- Developing Backup and Recovery Strategies
- And Much, Much More!!

This book, Windows Server 2016: Storage Solutions, is designed to be used with other volumes in the Tech Artisans Library, which together provide a definitive resource for all of the core features and enhancements in Windows Server 2016. Windows Server expert William Stanek doesn't just show you the steps you need to follow, he tells you how features work, why you would want to configure them, and how you can optimize them.

Windows Server 2016 is Microsoft's most powerful, versatile and fully featured operating system yet. Get this book and the others in the Tech Artisans Library to conquer it from the inside out.

## 1. Storage Management Essentials

Understanding Storage

Deploying File Services

Configuring Hyper-V

## 2. Navigating Storage Options


Disk Management 101

Using Standard and Advanced Format Drives

Navigating Partition Styles

- Navigating Disk Structures
- 3. Configuring Disks and Storage
  - Sectors vs Clusters
  - Managing MBR Partitions on Basic Disks
  - Managing GPT Partitions on Basic Disks
  - Managing Volumes on Dynamic Disks
- 4. Using TPM and BitLocker Encryption
  - Getting Started with Trusted Platforms
  - TPM Essentials
  - Configuring TPM
  - Getting Started with BitLocker
  - Implementing Hardware Encryption, Secure Boot, and Network Unlock
- 5. Managing BitLocker Encryption
  - Preparing for BitLocker Deployment
  - Setting Up BitLocker Encryption
  - Troubleshooting BitLocker Encryption
- 6. File System Essentials
  - Navigating Disk and File-System Structures
  - Working with NTFS
  - Exploring Advanced NTFS Features
  - Working with ReFS
- 7. Maintaining and Optimizing Storage
  - Managing NTFS Disk Quotas
  - Automating Disk Maintenance
  - Automating Disk Optimization
- 8. Provisioning Storage
  - Understanding Storage Spaces
  - Offloading Data Transfers
  - Using Storage Spaces
  - Setting up Storage Pools
  - Configuring Data Deduplication
- 9. Managing File Sharing
  - Navigating File-Sharing Options
  - Working with Shares
  - Creating and Publishing Shares
  - Managing Share Permissions
  - Configuring Work Folders
- 10. Safeguarding Storage
  - Managing File and Folder Permissions
  - Managing File Shares After Configuration
  - Managing Claims-Based Access Controls
  - Auditing File and Folder Access
- 11. Managing File Screening and Storage Reporting
  - File Screening and Storage Reporting Essentials
  - Managing Global Storage Settings
  - Configuring Classification and Assistance
  - Enabling File Screening
- 12. Recovery Planning
  - Disaster-Planning Strategies

Disaster Preparedness Procedures  
Developing Backup Strategies  
Backing Up and Recovering Data  
Backing Up and Restoring Active Directory  
Troubleshooting Startup and Shutdown  
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