

Macrium Reflect KnowledgeBase



Upgrading from an earlier version of Macrium Reflect?

Check the key new features in [this latest major update](#)

Need more help?

You can search our [Support Forum](#) where you may find answers to questions not covered by our Knowledgebase.

- [Macrium Reflect v8.0 User Guide](#)
 - [Introduction to Macrium Reflect](#)
 - [Macrium Reflect Minimum System Requirements](#)
 - [Deprecation of SHA-1 code signing](#)
 - [Macrium Reflect Feature Comparison Chart](#)
 - [Licensing Policy](#)
 - [Macrium Services Provider License Agreement explained](#)
 - [End User License Agreement](#)
 - [Contacting Macrium Support](#)
 - [New in Version 8.0](#)
 - [ReFS and ExFAT Support](#)
 - [Dark Theme](#)
 - [Restore and Clone Partition Layout](#)
 - [Existing Backups View](#)
 - [File and Folder Backup Wizard](#)
 - [File Name Parameters](#)
 - [viBoot Virtual Box Support](#)
 - [Removable Media Imaging and Cloning Support](#)
 - [Redesigned Log View](#)
 - [Intra-Daily Schedules](#)
 - [Download and install your purchase](#)
 - [Installing a Macrium Reflect v7 to v8 Upgrade](#)
 - [Installing Macrium Reflect](#)
 - [Installing and updating Macrium Reflect offline](#)
 - [Unique Registration Code](#)
 - [Upgrade FAQ](#)
 - [Upgrading to v8 from v6](#)
 - [Macrium Reflect Quick Start](#)
 - [Windows Explorer shell integration](#)
 - [Reviewing your backup history](#)
 - [Removing your License key when Upgrading your PC](#)
 - [What is VSS, how does it work and why do we use it?](#)
 - [Rapid Delta Clone - RDC](#)
 - [Rapid Delta Restore - RDR](#)
- [Backup, imaging and cloning](#)
 - [Creating a backup image of your computer, drive or partitions](#)
 - [Windows Partitions](#)
 - [Manually running a job from a configured XML backup definition](#)
 - [How backup sets are created and maintained](#)
 - [How to delete backup files](#)
 - [Backing up files and folders](#)
 - [Cloning a disk](#)

- Backing up Microsoft Exchange databases
- Backing up MS SQL Databases
- Creating a disk image of a single drive or partition
- Differential and incremental disk images
- Creating desktop shortcuts for full, incremental and differential backups
- Checking VSS events when backups fail
- Alternative Locations For Backups
- Advanced Options
- Verifying image and backup files
- How to backup Hyper-V Cluster Shared Volumes
- Restoring and browsing
 - Restoring an image from within Windows
 - Restoring a System image from Windows
 - Modifying restore destination partition properties
 - Understanding partition alignment
 - Browsing Macrium Reflect images and backups in Windows Explorer
 - Browsing Linux Ext File System Images
 - Restoring a file and folder backup
 - Restoring MS SQL
 - Restoring MS Exchange databases
 - Restoring emails with Mailbox Restore
 - Setting up permissions for Mailbox Restore
 - Adding MS Exchange search folders
 - Restoring an MBR System image to UEFI/GPT
 - Restoring a UEFI/GPT System image to MBR
 - Bare metal restore of a Dynamic disk system
 - Drive letters assigned to restored or cloned partitions
 - Restore to VHD
- Scheduling and Retention rules
 - Scheduling backups
 - Configuring e-mail notifications
 - Running continuous backup of SQL databases
 - Which user name and password is used when scheduling a backup?
 - Retention and consolidation
- The Macrium Rescue Environment
 - Rescue Media Builder - How It Works
 - Creating rescue media
 - Adding a Boot Menu option for system Image recovery
 - Technicians portable application support
 - About Adding Drivers to WinPE Rescue Media
 - Fixing Windows boot problems
 - Updating rescue media to include additional hardware drivers
 - Adding iSCSI support to Windows PE
 - Adding BitLocker support to Windows PE
 - Restoring an image from within the Rescue Media
- Macrium Image Guardian
 - Why MIG isn't available for 3rd party NAS devices
- Macrium Changed Block Tracker
- Macrium viBoot
- Re-deploying to new hardware
 - Re-deploying Windows to new hardware using Macrium ReDeploy
 - Using Windows sysprep and deploying using Macrium Reflect
- Macrium Reflect Server Plus for Exchange and SQL
- Command line operations with Macrium Reflect
 - Installing Macrium Reflect from the command line
 - Using Macrium Reflect from the command line

- Verifying image and backup files from the command line
- Generating scripts and batch files
 - Generating a VBScript source file
 - Generating an MS-DOS batch file
 - Generating a PowerShell source file
- Backup Folder Synchronization
- Defaults and Settings
 - Backup Defaults
 - Restore Defaults
 - Script Defaults
 - Email Settings and Defaults
 - Update Settings
 - Schedule Settings
 - Network Share Settings
 - Event Settings
 - Advanced Settings
- PXE Deployment
- Standalone backup set consolidation
- Converting a Physical machine to Virtual Machine
- Logging file changes for Incremental and Differential Images
- Backup to the cloud with Azure File Shares
- How to add an auto restore xml file to the rescue media
- Troubleshooting
 - Running an elevated command prompt
 - Anti-virus, Registry cleaners and uninstallers
 - Install and upgrade issues caused by security software
 - Blue screen with Trend Micro Titanium
 - HP Protect service mount issue
 - Kaspersky anti-virus conflict with Macrium Reflect
 - Macrium Reflect crashes if PretonSaver application is running
 - Backup aborted! - Folder not found
 - Backup aborted! - None of the specified backup locations could be written to
 - Logon failure: unknown user name or bad password
 - Backup aborted! - Write operation failed - Insufficient system resources ...
 - Backup aborted! - Write operation failed - The request could not be performed because of an I/O device error
 - BAD_POOL_HEADER BSOD during backup on Windows XP or 2003
 - Can't see SQL Instances in Login Window
 - Can I boot Machine A with Windows PE rescue media created on Machine B
 - Can I transfer my programs and files to a new computer
 - Confirming that Macrium download is genuine
 - Diagnostic information
 - Driver load issues in WinPE
 - Error 0x8007052e - Scheduled task restrictions with Windows Vista Starter and Home Editions
 - Error 1117 - Backup aborted
 - Event 513 errors in Windows 8.1/10
 - Hardware: Lenovo Preboot Issue
 - Disk boot failure, insert system disk and press Enter
 - Troubleshooting Macrium Reflect startup problems
 - Macrium Reflect and RAID systems
 - Mapped network shares not visible in Macrium Reflect when UAC is enabled
 - Message Not all partitions copied. Insufficient space
 - My CD/DVD Rescue Media will not boot.
 - Out of Memory error during File and Folder backup
 - Out of memory error on 32-bit systems
 - Out of Memory Error
 - ReDeploy Troubleshooting Guide
 - Resolving Rescue Media Network Issues
 - Existing Backups Load Errors
 - The error "Not all files have been retrieved" when downloading Windows PE - caused by BitDefender Antivirus
 - Troubleshooting installer issues
 - Unable to read from disk - Error Code 121 - The semaphore timeout period has expired.
 - Unable to re-join a restored machine to an AD domain

- Understanding and resolving backup and restore performance issues
- Understanding Image Verification Failures
- Incompatible Disk Selected
- Internet connection problems when downloading
- BSOD MULTIPLE_IRP_COMPLETE_REQUESTS when creating rescue CD
- Troubleshooting Microsoft VSS errors
 - Identifying, diagnosing and reporting VSS errors
 - Selected writer 'Microsoft Hyper-V VSS Writer' is in failed state
 - 'SPSearch4 VSS Writer' is in failed state! (Result Code: 0x8000ffff)
 - VSS Error: 0x8004230F
 - VSS Error: 0x80042318 - Failed to Create Volume Snapshot
 - VSS Error: 0x80042317: Failed to Create Volume Snapshot
 - VSS Error: 0x8004231f - Failed to Create Volume Snapshot
 - VSS Error - Backup aborted! - Failed To Create Volume Snapshot. Result Code: 0x8004230c
 - VSS Error - ERROR: Selected writer 'Dhcp Jet Writer' is in failed state!
 - VSS Error - ERROR: Selected writer 'NTDS' is in failed state!
 - VSS Result Code 0x8004230f with Event ID 12293 on Windows Server 2008 R2 without BitLocker
 - VSS fails due to disks with a non-standard sector size
 - VSS Fails due to modification by 3rd party software
 - VSS Error:0x8000ffff - Backup aborted! - Failed To Create Volume Snapshot.
 - VSS Error: 0x800423f3 - Selected writer 'WMI Writer' is in failed state!
 - VSS Error: 0x80042306 - VSS_E_PROVIDER_VETO - Volume Shadow Copy Error
 - VSS Error - Selected writer 'Registry Writer' is in failed state!
 - VSS error: VSS_E_SNAPSHOT_SET_IN_PROGRESS
 - VSS Error - 8193 Unexpected error calling routine ConvertStringSidToSid
- Windows 8/Server 2012 Network Connection Issues under WinPE
- Windows Update (and other Windows Features) not working after clone to Advanced Format disk
- Removing a drive letter from the MS System Reserved partition
- Locating missing disks or drives
- Excluding disks when Macrium Reflect starts up
- Incremental or differential specified but no backup set to append to.
- Imaging disks with bad sectors
- Running DiskRestore from Windows PE
- Stopping the SQL Server service automatically when backing up
- Can I use Macrium Reflect to move my installed software to a new machine
- Backing up non-VSS aware databases
- Reparse points in Disk Images
- Understanding Disk IDs
- Backup aborted! - Unable to lock volume
- Scheduled task save failed: The system cannot find the path specified
- How to check the status of scheduled backups
- Using Gmail SMTP Server for sending backup notification emails
- Macrium Reflect Explorer shell extensions not available after a Windows 10 in-place upgrade
- Windows Explorer shell extensions missing
- Why a Cloned or Restored file system has less used space than the source

- [Windows PE build error: "A required privilege is not held by the client"](#)
- [How to add a user to the 'Administrators' group](#)
- [How to disable the backup notification dialog](#)
- [VSS Warning EventID: 8230](#)
- [Windows 10 Notifications](#)
- [Executing a VBScript file opens Windows Notepad](#)
- [How to copy Encrypted File System \(EFS\) files from a mounted disk image](#)
- [How to create a Rescue Media ISO image file](#)
- [Windows 10 Anniversary Update issues](#)
- [Windows won't start after upgrading to Macrium Reflect v7](#)
- [How to configure the ReflectMonitor hot key](#)
- [Very slow File and Folder backups](#)
- [Windows PE download failure with SonicWALL Firewall](#)
- [PC won't wake from Sleep to run a backup](#)
- [Scheduled task last status error: 0x800710E0](#)
- [Backup aborted! - Unable to read from disk - Error Code 2 - The system cannot find the file specified](#)
- [Error 0x80070510 when deleting backup files](#)
- [BitLocker Restore/Clone Outcomes](#)
- [Restore failed - Write failed - Permission denied WriteFileSystemData failed](#)
- [Windows 10 Notifications - 1709 Fall Creators Update](#)
- [How to allow your PC to Sleep during a backup](#)
- [Network Share Persistence](#)
- [XML validation error](#)
- [Linux ext file systems can show a larger used and total space in Macrium Reflect](#)
- [Sending backup log output to a text file in PowerShell](#)
- [How to exclude files from Disk Images and Clones](#)
- [Windows 7 32 bit - pagefault_in_non-paged_area pssnap.sys](#)
- [Scheduled Tasks Error 0x40010004](#)
- [VSS Timeout](#)
- [Detecting another process interfering with backups](#)
- [How to stop Norton Security from triggering MIG Notifications](#)
- [How to stop Avast Antivirus from triggering MIG Notifications](#)
- [How to stop AVG AntiVirus from triggering MIG Notifications](#)
- [XP Patching - Unable to download patch](#)
- [v8 User Interface Fonts](#)
- [Toolbar and Application Icons Hidden](#)
- [BitDefender False Positive](#)