Optimising Windows Server 2012 for use with MUSAC Classic

musac

MUSAC supports the use of Windows Server 2012 as a file server for MUSAC Classic, Financial and Asset Manager and Library Manager.

The information in this paper is compiled from the latest available information from Microsoft, our own in-house testing and customer reports.

Server Message Block

The Server Message Block (SMB) protocol is a network file sharing protocol that allows applications on a computer to read and write to files and to request services from server programs in a computer network. Windows Server 2012 introduces the new 3.0 version of the SMB protocol.

While SMB3 enhances the performance of one type of database (client/server) it can introduce data integrity issues for other database types (file system/ISAM). Microsoft .Jet database engine is a file system/ISAM database and as such MUSAC's recommendation is that the server is reverted back to version 1.

Disabling Server Message Block version 3 on Windows Server 2012

Note: To complete the following steps you will need to be logged onto the Windows 2012 Server as an administrator

Windows Server 2012 introduces the new Set-SMBServerConfiguration Windows PowerShell cmdlet. The cmdlet enables you to enable or disable the SMBv1, SMBv2, and SMBv3 protocols on the server component.

Note: When you enable or disable SMBv2 in Windows 8 or in Windows Server 2012, SMBv3 is also enabled or disabled. This behaviour occurs because these protocols share the same stack.

You do not have to restart the computer after you run the Set-SMBServerConfiguration cmdlet.

- To obtain the current state of the SMB server protocol configuration, run the following cmdlet: Get-SmbServerConfiguration | Select EnableSMB1Protocol, EnableSMB2Protocol

- To disable SMBv2 and SMBv3 on the SMB server, run the following cmdlet: Set-SmbServerConfiguration -EnableSMB2Protocol $false

More information

Server Message Block overview

How to enable and disable SMBv1, SMBv2, and SMBv3 in Windows Vista, Windows Server 2008, Windows 7, Windows Server 2008 R2, Windows 8, and Windows Server 2012