

## How to enable TLS 1.2 on Windows Server 2008 R2

### Problem

How to enable TLS 1.2 on Windows Server 2008 R2?

### Resolution

QuoVadis recommends enabling and using the TLS 1.2 protocol on your server. TLS 1.2 has improvements over previous versions of the TLS and SSL protocol which will improve your level of security. By default, Windows Server 2008 R2 does not have this feature enabled. This KB article will describe the process to enable this.

1. Start the registry editor by clicking on **Start** and **Run**. Type in "regedit" into the **Run** field (without quotations).
1. Highlight **Computer** at the top of the registry tree. Backup the registry first by clicking on **File** and then on **Export**. Select a file location to save the registry file.

### Note:

You will be editing the registry. This could have detrimental effects on your computer if done incorrectly, so it is strongly advised to make a backup.

1. Browse to the following registry key:  
HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANN  
EL\Protocols
1. Right click on the **Protocols** folder and select **New** and then **Key** from the drop-down menu. This will create new folder. Rename this folder to **TLS 1.2**.
1. Right click on the **TLS 1.2** key and add two new keys underneath it.
1. Rename the two new keys as:
  - Client
  - Server
1. Right click on the **Client** key and select **New** and then **DWORD (32-bit) Value** from the drop-down list.
1. Rename the **DWORD** to **DisabledByDefault**.
1. Right-click the name **DisabledByDefault** and select **Modify...** from the drop-down menu.
1. Ensure that the **Value** data field is set to **0** and the **Base** is **Hexadecimal**. Click on **OK**.
1. Create another **DWORD** for the **Client** key as you did in **Step 7**.
1. Rename this second **DWORD** to **Enabled**.

## Microsoft

1. Right-click the name **Enabled** and select **Modify...** from the drop-down menu.
1. Ensure that the **Value** data field is set to **1** and the **Base** is **Hexadecimal**. Click on **OK**.
1. Repeat steps **7** to **14** for the **Server** key (by creating two DWORDs, **DisabledByDefault** and **Enabled**, and their values underneath the **Server** key).
1. Reboot the server.

Your server should now support TLS 1.2.

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