



SMB and IIS configuration

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SMB

- Server Message Block
 - Communication protocol for providing shared access to files, printers, and serial ports between nodes on a network
 - Creates a connection between the server and the client, sending messages back and forth
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SMB

- SMB v1 should be disabled on windows because it is unsafe
 - Powershell:
Disable-WindowsOptionalFeature
-Online -FeatureName smb1protocol
 - Turn windows features on or off ->
uncheck SMB v1

SMB

- To access view your SMB server configuration, open up powershell as an administrator
- Run the command, `Get-SmbServerConfiguration`
- To change one of these settings, do `Set-SmbServerConfiguration -[setting name] [new value] -Force`
 - Force allows you to skip the next step of confirming the change -- but it might be a good idea to not put this to make sure you are making the right change.
 - True/False values require a "\$" before

SMB

Some best practices:

EncryptData - True

EnableSMB1Protocol - False

IIS

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- Internet Information Services
 - Typically want to disable this service, unless specified in the read me
 - It is useful for configuring a web server that the computer is in control of

IIS

- Turn Windows features on or off
 - Check Internet Information Services
 - Expand the box
 - Under Web Management Tools, check all the boxes
 - Under World Wide Web Services, check all of the boxes
 - Check everything under Security
- Open up Internet Information Services (IIS) Manager

IIS

The IIS manager allows you to configure the web servers that are administered by your PC.

- **Connections**
 - Can access specific servers, sites, etc.
 - Expand nodes and click on nodes to configure them
- **Features View**
 - Most of the configuration is done here
 - Click on a feature to view the rules associated with that feature
 - Right click on rules to enable/disable them, or edit them
- **Actions**
 - Gives certain actions for each feature
 - Different features will have different actions

IIS

You can also edit the configuration of IIS using its .config file

File Explorer: C: -> Windows -> System32 -> inetsrv -> config -> applicationHost.CONFIG

Open it with notepad++, navigate to the setting you wish to change, type in the new setting, and save the file.

- You will have to restart IIS manager if you wish to see the applied changes

IIS

Follow CIS Benchmarks:

<https://drive.google.com/file/d/1MFgGHCnYYUVXkq6KLeR1uuWWXxSl6Vre/view?usp=sharing>

IIS - Example 1

Configure application pool identity for all application pools

Application pool (Under server node) -> Right click on application pool -> Advanced Settings -> Identity -> ApplicationPoolIdentity

- Make sure all the application pools hold this identity.

IIS - Example 2

Select “Application pool identity” for anonymous user identity

Go to whatever you want to configure ->

Authentication -> Anonymous Authentication - >edit

-> choose Application pool identity