

User Logon Enumeration

Indicator of Activity (IOA):

- Network:
 - Inbound network connections to System over port 445
 - Methods:
 - NetrWkstaGetInfo
 - NetrWkstaUserEnum
 - Network connection to pipe \pipe\wkssvc
- Host:
 - o 5145 (Detailed Network File Share) Event to
 - Share Name: IPC\$
 - Relative Target \pipe\wkssvc
 - Look at the user who made the connection
 - Access Request Information: Access Mask (0x3 or higher) (ReadData or ListDirectory + WriteData or AddFile)
 - BH has been seen to have the hardcoded rights: 0x12019f (READ_CONTROL, SYNCHRONIZE, ReadData (or ListDirectory), WriteData (or AddFile), AppendData (or AddSubdirectory or CreatePipeInstance), ReadEA, WriteEA, ReadAttributes, WriteAttributes)

Prevention Opportunities:

- Prevent relay attacks by enabling SMB signing:
 - O HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\LanManWorkstation\Parameters \RequireSecuritySignature = 1
 - O HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\LanManWorkstation\Parameters
 \EnableSecuritySignature = 1
- MSFT link for guidance: https://docs.microsoft.com/en-us/troubleshoot/windows-server/networking/overview-server-message-block-signing

MSRPC-to-ATTACK/documents/MS-WKST.md at ddd4608fe8684fcf2fcf9b48c5f0b3c28097f8a3 · jsecurity101/MSRPC-to-ATTACK · GitHub - 31/10/2024 09:08 https://github.com/jsecurity101/MSRPC-to-ATTACK/blob/ddd4608fe8684fcf2fcf9b48c5f0b3c28097f8a3/documents/MS-WKST.md

Notes:

- RPC filter doesn't exist for this interface due to the unknowings of other technologies that could be leveraging MS-WKST.
- Service Name: Lanman Workstation
- Often seen with BH activity for user enumeration.
- Look for connection to named pipe (both client and server)
- Protocol was built to facilitate remote tasks on a host, such as:
 - SMB network redirector configuration
 - Manage domain memberships
 - o Return information related to user logins and enabled transports
- In order to run successfully requester must have administrator rights

Useful Resources: