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Class: BS-DFCS

Section: A

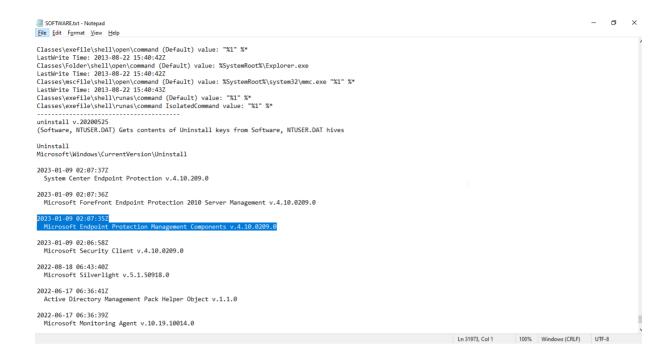
Roll no: 002, 004, 018, 021, 027

Assignment submitted to

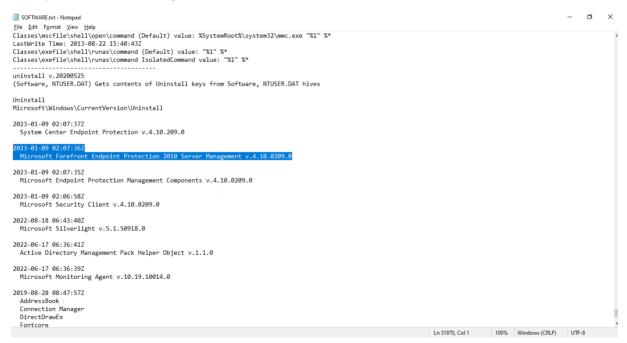
MS. Fatima

Forensic Artifacts of Active Directory Scenerio

We can see **OMAction** user found in **NTDS.dit** file which is a action user that means it can be mapped to the local system or a domain user account

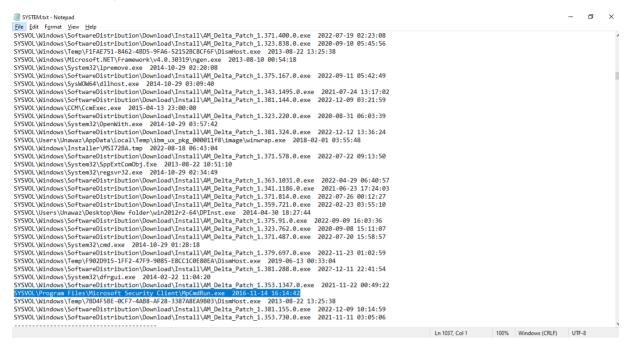


MS Endpoint Protection was uninstall showing an indicator to suspicious activity



At the same time **MS forefront Endpoint** was also uninstalled showing an indicated to potentially creating a window of

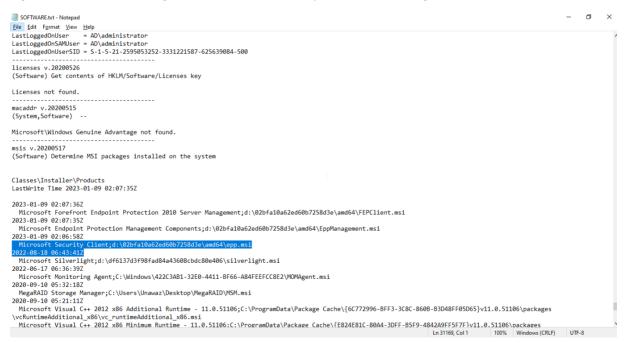
vulnerability.

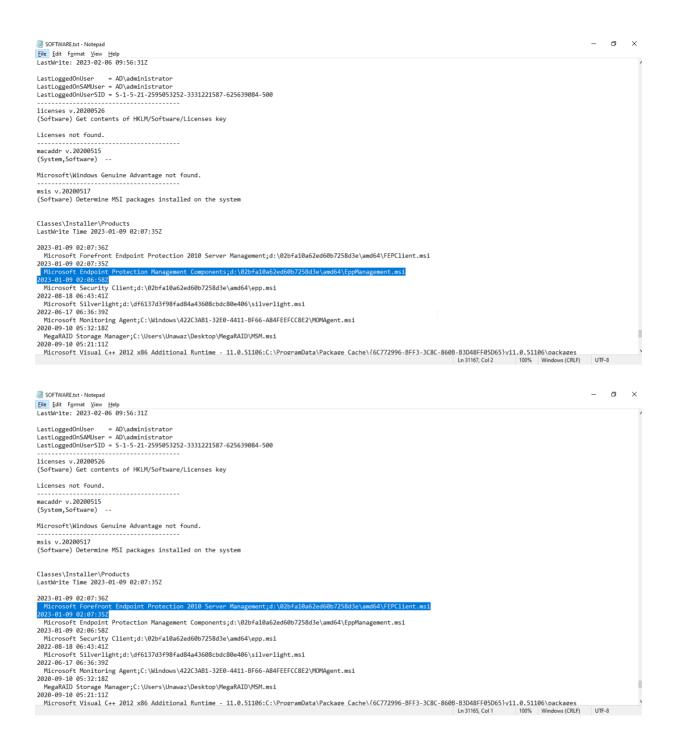


The file MPCMDRun.exe was found on the system. This executable is associated with Windows Defender and typically used for malware scanning. When a security application like Microsoft Defender is unregistered in the Windows Security Center (WSC), it means that Windows does not officially recognize it as the active antivirus program. This status could occur due to improper installation, corruption of the program, or intentional tampering by a malicious actor.

```
- 🗗 ×
iii Edit Format View Help
Classes\Folder\shell\open\command (Default) value: %SystemRoot%\Explorer.exe
LastWrite Time: 2013-08-22 15:40:422
Classes\inscfile\shell\open\command (Default) value: %SystemRoot%\system32\mmc.exe "%1" %*
LastWrite Time: 2013-08-22 15:40:43Z
Classes\exefile\shell\runas\command (Default) value: "%1" %*
Classes\exefile\shell\runas\command IsolatedCommand value: "%1" %*
uninstall v.20200525
(Software, NTUSER.DAT) Gets contents of Uninstall keys from Software, NTUSER.DAT hives
Microsoft\Windows\CurrentVersion\Uninstall
2023-01-09 02:07:37Z
  System Center Endpoint Protection v.4.10.209.0
2023-01-09 02:07:36Z
  Microsoft Forefront Endnoint Protection 2010 Server Management v. 4.10.0209.0
  Microsoft Endpoint Protection Management Components v.4.10.0209.0
2022-08-18 06:43:407
   Microsoft Silverlight v.5.1.50918.0
2022-06-17 06:36:41Z
  Active Directory Management Pack Helper Object v.1.1.0
2022-06-17 06:36:39Z
  Microsoft Monitoring Agent v.10.19.10014.0
  Connection Manager
                                                                                                                                                          Ln 31976, Col 1 100% Windows (CRLF) UTF-8
```

Again MS Security Client was uninstall to create a vulnerable system so that system can be exploited easily





A new installation of Microsoft Endpoint Protection Management, Microsoft Security Client version, MS Endpoint Protection Management is displayed in this step, presumably to restore the earlier uninstalled security measures to cover tracks so that system administrator may not note the suspicious activity by the

malicious actor



These two files "windows_enrypt.exe" and "windows32_encrypt.exe" were the ransomware files that was run to encrypt the system and display the ransom note.



A suspicious entry **mprun** was identified in the system's autostart configuration. Autostart entries often indicate persistence mechanisms used by malware or unauthorized programs to execute on system startup. The **mprun** entry could potentially be related to malicious software aiming to gain persistence.