

REvil, Software S0496 | MITRE ATT&CK®

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Enterprise [T1134](#) [.001 Access Token Manipulation: Token Impersonation/Theft](#)

[REvil](#) can obtain the token from the user that launched the explorer.exe process to avoid affecting the desktop of the SYSTEM user.^[9]

[.002 Access Token Manipulation: Create Process with Token](#)

[REvil](#) can launch an instance of itself with administrative rights using runas.^[1]

Enterprise [T1071](#) [.001 Application Layer Protocol: Web Protocols](#)

[REvil](#) has used HTTP and HTTPS in communication with C2.^{[6][7][9][2][1]}

Enterprise [T1059](#) [.001 Command and Scripting Interpreter: PowerShell](#)

[REvil](#) has used PowerShell to delete volume shadow copies and download files.^{[7][8][2][3]}

[.003 Command and Scripting Interpreter: Windows Command Shell](#)

[REvil](#) can use the Windows command line to delete volume shadow copies and disable recovery.^{[6][8][11][1]}

[.005 Command and Scripting Interpreter: Visual Basic](#)

[REvil](#) has used obfuscated VBA macros for execution.^{[5][11]}

Enterprise [T1485 Data Destruction](#)

[REvil](#) has the capability to destroy files and folders.^{[4][7][9][9][2][11][1]}

Enterprise [T1486 Data Encrypted for Impact](#)

[REvil](#) can encrypt files on victim systems and demands a ransom to decrypt the files.^{[4][6][8][10][2][11][1][12]}

Enterprise [T1140 Deobfuscate/Decode Files or Information](#)

[REvil](#) can decode encrypted strings to enable execution of commands and payloads.^{[5][4][6][9][2][1]}

Enterprise [T1189 Drive-by Compromise](#)

[REvil](#) has infected victim machines through compromised websites and exploit kits.^{[1][9][11][7]}

Enterprise [T1573](#) [.002 Encrypted Channel: Asymmetric Cryptography](#)

[REvil](#) has encrypted C2 communications with the ECIES algorithm.^[4]

Enterprise [T1480 .002 Execution Guardrails: Mutual Exclusion](#)

[REvil](#) attempts to create a mutex using a hard-coded value to ensure that no other instances of itself are running on the host.^[13]

Enterprise [T1041 Exfiltration Over C2 Channel](#)

[REvil](#) can exfiltrate host and malware information to C2 servers.^[1]

Enterprise [T1083 File and Directory Discovery](#)

[REvil](#) has the ability to identify specific files and directories that are not to be encrypted.^{[4][6][7][9][2][1]}

Enterprise [T1562 .001 Impair Defenses: Disable or Modify Tools](#)

[REvil](#) can connect to and disable the Symantec server on the victim's network.^[6]

[.009 Impair Defenses: Safe Mode Boot](#)

[REvil](#) can force a reboot in safe mode with networking.^[14]

Enterprise [T1070 .004 Indicator Removal: File Deletion](#)

[REvil](#) can mark its binary code for deletion after reboot.^[2]

Enterprise [T1105 Ingress Tool Transfer](#)

[REvil](#) can download a copy of itself from an attacker controlled IP address to the victim machine.^{[8][9][11]}

Enterprise [T1490 Inhibit System Recovery](#)

[REvil](#) can use vssadmin to delete volume shadow copies and bcdedit to disable recovery features.^{[4][6][7][8][9][2][11][12]}

Enterprise [T1680 Local Storage Discovery](#)

[REvil](#) can identify system drive information on a compromised host.^{[4][6][7][9][9][2][3][1]}

Enterprise [T1036 .005 Masquerading: Match Legitimate Resource Name or Location](#)

[REvil](#) can mimic the names of known executables.^[11]

Enterprise [T1112 Modify Registry](#)

[REvil](#) can modify the Registry to save encryption parameters and system information.^{[6][7][9][2][1]}

Enterprise [T1106 Native API](#)

[REvil](#) can use Native API for execution and to retrieve active services.^{[1][2]}

Enterprise [T1027 .011 Obfuscated Files or Information: Fileless Storage](#)

[REvil](#) can save encryption parameters and system information in the Registry.^{[6][7][9][2][1]}

[.013 Obfuscated Files or Information: Encrypted/Encoded File](#)

[REvil](#) has used encrypted strings and configuration files.^{[5][7][9][2][3][1][1]}

Enterprise [T1069 .002 Permission Groups Discovery: Domain Groups](#)

[REvil](#) can identify the domain membership of a compromised host.^{[4][9][1]}

Enterprise [T1566 .001 Phishing: Spearphishing Attachment](#)

[REvil](#) has been distributed via malicious e-mail attachments including MS Word Documents.^{[5][6][1][9][11]}

Enterprise [T1055 Process Injection](#)

[REvil](#) can inject itself into running processes on a compromised host.^[10]

Enterprise [T1012 Query Registry](#)

[REvil](#) can query the Registry to get random file extensions to append to encrypted files.^[1]

Enterprise [T1489 Service Stop](#)

[REvil](#) has the capability to stop services and kill processes.^{[2][1]}

Enterprise [T1082 System Information Discovery](#)

[REvil](#) can identify the username, machine name, system language, keyboard layout, and OS version on a compromised host.^{[4][6][7][9][9][2][3][1]}

Enterprise [T1614 .001 System Location Discovery: System Language Discovery](#)

[REvil](#) can check the system language using `GetUserDefaultUILanguage` and `GetSystemDefaultUILanguage` . If the language is found in the list, the process terminates.^[4]

Enterprise [T1007 System Service Discovery](#)

[REvil](#) can enumerate active services.^[2]

Enterprise [T1204 .002 User Execution: Malicious File](#)

[REvil](#) has been executed via malicious MS Word e-mail attachments.^{[5][10][11]}

Enterprise [T1047 Windows Management Instrumentation](#)

[REvil](#) can use WMI to monitor for and kill specific processes listed in its configuration file. [\[7\]](#)[\[3\]](#)

ICS [T0828 Loss of Productivity and Revenue](#)

The [REvil](#) malware gained access to an organizations network and encrypted sensitive files used by OT equipment. [\[15\]](#)

ICS [T0849 Masquerading](#)

[REvil](#) searches for whether the Ahnlab autoup.exe service is running on the target system and injects its payload into this existing process. [\[16\]](#)

ICS [T0886 Remote Services](#)

[REvil](#) uses the SMB protocol to encrypt files located on remotely connected file shares. [\[17\]](#)

ICS [T0853 Scripting](#)

[REvil](#) utilizes JavaScript, WScript, and PowerShell scripts to execute. The malicious JavaScript attachment has an obfuscated PowerShell script that executes the malware. [\[16\]](#)

ICS [T0881 Service Stop](#)

[REvil](#) searches for all processes listed in the prc field within its configuration file and then terminates each process. [\[18\]](#)

ICS [T0869 Standard Application Layer Protocol](#)

[REvil](#) sends HTTPS POST messages with randomly generated URLs to communicate with a remote server. [\[16\]](#)
[\[13\]](#)

ICS [T0882 Theft of Operational Information](#)

[REvil](#) sends exfiltrated data from the victims system using HTTPS POST messages sent to the C2 system. [\[18\]](#) [\[13\]](#)

ICS [T0863 User Execution](#)

[REvil](#) initially executes when the user clicks on a JavaScript file included in the phishing emails .zip attachment. [\[16\]](#)

Source: <https://attack.mitre.org/software/S0496/>