

InvisiMole, Software S0260 | MITRE ATT&CK®

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Enterprise [T1548 .002 Abuse Elevation Control Mechanism: Bypass User Account Control](#)

[InvisiMole](#) can use fileless UAC bypass and create an elevated COM object to escalate privileges. [\[1\]\[2\]](#)

Enterprise [T1087 .001 Account Discovery: Local Account](#)

[InvisiMole](#) has a command to list account information on the victim's machine. [\[1\]](#)

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

[InvisiMole](#) uses HTTP for C2 communications. [\[1\]](#)

[.004 Application Layer Protocol: DNS](#)

[InvisiMole](#) has used a custom implementation of DNS tunneling to embed C2 communications in DNS requests and replies. [\[2\]](#)

Enterprise [T1010 Application Window Discovery](#)

[InvisiMole](#) can enumerate windows and child windows on a compromised host. [\[1\]\[2\]](#)

Enterprise [T1560 .001 Archive Collected Data: Archive via Utility](#)

[InvisiMole](#) uses WinRAR to compress data that is intended to be exfiltrated. [\[1\]](#)

[.002 Archive Collected Data: Archive via Library](#)

[InvisiMole](#) can use zlib to compress and decompress data. [\[1\]\[2\]](#)

[.003 Archive Collected Data: Archive via Custom Method](#)

[InvisiMole](#) uses a variation of the XOR cipher to encrypt files before exfiltration. [\[1\]](#)

Enterprise [T1123 Audio Capture](#)

[InvisiMole](#) can record sound using input audio devices. [\[1\]\[2\]](#)

Enterprise [T1119 Automated Collection](#)

[InvisiMole](#) can sort and collect specific documents as well as generate a list of all files on a newly inserted drive and store them in an encrypted file. [\[1\]\[2\]](#)

Enterprise [T1547 .001 Boot or Logon Autostart Execution: Registry Run Keys / Startup Folder](#)

[InvisiMole](#) can place a lnk file in the Startup Folder to achieve persistence.^[2]

[.009 Boot or Logon Autostart Execution: Shortcut Modification](#)

[InvisiMole](#) can use a .lnk shortcut for the Control Panel to establish persistence.^[2]

Enterprise [T1059 .003 Command and Scripting Interpreter: Windows Command Shell](#)

[InvisiMole](#) can launch a remote shell to execute commands.^{[1][2]}

[.007 Command and Scripting Interpreter: JavaScript](#)

[InvisiMole](#) can use a JavaScript file as part of its execution chain.^[2]

Enterprise [T1543 .003 Create or Modify System Process: Windows Service](#)

[InvisiMole](#) can register a Windows service named CsPower as part of its execution chain, and a Windows service named clr_optimization_v2.0.51527_X86 to achieve persistence.^[2]

Enterprise [T1132 .002 Data Encoding: Non-Standard Encoding](#)

[InvisiMole](#) can use a modified base32 encoding to encode data within the subdomain of C2 requests.^[2]

Enterprise [T1005 Data from Local System](#)

[InvisiMole](#) can collect data from the system, and can monitor changes in specified directories.^[1]

Enterprise [T1025 Data from Removable Media](#)

[InvisiMole](#) can collect jpeg files from connected MTP devices.^[2]

Enterprise [T1001 .003 Data Obfuscation: Protocol or Service Impersonation](#)

[InvisiMole](#) can mimic HTTP protocol with custom HTTP "verbs" HIDE, ZVVP, and NOP.^{[1][2]}

Enterprise [T1074 .001 Data Staged: Local Data Staging](#)

[InvisiMole](#) determines a working directory where it stores all the gathered data about the compromised machine.^{[1][2]}

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

[InvisiMole](#) can decrypt, unpack and load a DLL from its resources, or from blobs encrypted with Data Protection API, two-key triple DES, and variations of the XOR cipher.^{[1][2]}

Enterprise [T1573 .001 Encrypted Channel: Symmetric Cryptography](#)

[InvisiMole](#) uses variations of a simple XOR encryption routine for C&C communications.^[1]

Enterprise [T1480 .001 Execution Guardrails: Environmental Keying](#)

[InvisiMole](#) can use Data Protection API to encrypt its components on the victim's computer, to evade detection, and to make sure the payload can only be decrypted and loaded on one specific compromised computer.^[2]

Enterprise [T1203 Exploitation for Client Execution](#)

[InvisiMole](#) has installed legitimate but vulnerable Total Video Player software and wdigest.dll library drivers on compromised hosts to exploit stack overflow and input validation vulnerabilities for code execution.^[2]

Enterprise [T1068 Exploitation for Privilege Escalation](#)

[InvisiMole](#) has exploited CVE-2007-5633 vulnerability in the speedfan.sys driver to obtain kernel mode privileges.^[2]

Enterprise [T1210 Exploitation of Remote Services](#)

[InvisiMole](#) can spread within a network via the BlueKeep (CVE-2019-0708) and EternalBlue (CVE-2017-0144) vulnerabilities in RDP and SMB respectively.^[2]

Enterprise [T1008 Fallback Channels](#)

[InvisiMole](#) has been configured with several servers available for alternate C2 communications.^{[1][2]}

Enterprise [T1083 File and Directory Discovery](#)

[InvisiMole](#) can list information about files in a directory and recently opened or used documents. [InvisiMole](#) can also search for specific files by supplied file mask.^[1]

Enterprise [T1564 .001 Hide Artifacts: Hidden Files and Directories](#)

[InvisiMole](#) can create hidden system directories.^[2]

[.003 Hide Artifacts: Hidden Window](#)

[InvisiMole](#) has executed legitimate tools in hidden windows.^[2]

Enterprise [T1574 .001 Hijack Execution Flow: DLL](#)

[InvisiMole](#) can be launched by using DLL search order hijacking in which the wrapper DLL is placed in the same folder as explorer.exe and loaded during startup into the Windows Explorer process instead of the legitimate library.^[1]

Enterprise [T1562 .004 Impair Defenses: Disable or Modify System Firewall](#)

[InvisiMole](#) has a command to disable routing and the Firewall on the victim's machine.^[1]

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

[InvisiMole](#) has deleted files and directories including XML and files successfully uploaded to C2 servers. ^{[1][2]}

[.005 Indicator Removal: Network Share Connection Removal](#)

[InvisiMole](#) can disconnect previously connected remote drives. ^[1]

[.006 Indicator Removal: Timestomp](#)

[InvisiMole](#) samples were timestomped by the authors by setting the PE timestamps to all zero values. [InvisiMole](#) also has a built-in command to modify file times. ^[1]

Enterprise [T1105 Ingress Tool Transfer](#)

[InvisiMole](#) can upload files to the victim's machine for operations. ^{[1][2]}

Enterprise [T1490 Inhibit System Recovery](#)

[InvisiMole](#) can remove all system restore points. ^[1]

Enterprise [T1056 .001 Input Capture: Keylogging](#)

[InvisiMole](#) can capture keystrokes on a compromised host. ^[2]

Enterprise [T1559 .001 Inter-Process Communication: Component Object Model](#)

[InvisiMole](#) can use the `ITaskService` , `ITaskDefinition` and `ITaskSettings` COM interfaces to schedule a task. ^[2]

Enterprise [T1680 Local Storage Discovery](#)

[InvisiMole](#) can gather information on the mapped drives and system volume serial number. ^{[1][2]}

Enterprise [T1036 .004 Masquerading: Masquerade Task or Service](#)

[InvisiMole](#) has attempted to disguise itself by registering under a seemingly legitimate service name. ^[2]

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

[InvisiMole](#) has disguised its droppers as legitimate software or documents, matching their original names and locations, and saved its files as mpr.dll in the Windows folder. ^{[1][2]}

Enterprise [T1112 Modify Registry](#)

[InvisiMole](#) has a command to create, set, copy, or delete a specified Registry key or value. ^{[1][2]}

Enterprise [T1106 Native API](#)

[InvisiMole](#) can use winapiexec tool for indirect execution of `ShellExecuteW` and `CreateProcessA` . ^[2]

Enterprise [T1046 Network Service Discovery](#)

[InvisiMole](#) can scan the network for open ports and vulnerable instances of RDP and SMB protocols. ^[2]

Enterprise [T1135 Network Share Discovery](#)

[InvisiMole](#) can gather network share information. ^[1]

Enterprise [T1095 Non-Application Layer Protocol](#)

[InvisiMole](#) has used TCP to download additional modules. ^[2]

Enterprise [T1027 Obfuscated Files or Information](#)

[InvisiMole](#) avoids analysis by encrypting all strings, internal files, configuration data and by using a custom executable format. ^{[1][2]}

[.005 Indicator Removal from Tools](#)

[InvisiMole](#) has undergone regular technical improvements in an attempt to evade detection. ^[2]

Enterprise [T1057 Process Discovery](#)

[InvisiMole](#) can obtain a list of running processes. ^{[1][2]}

Enterprise [T1055 Process Injection](#)

[InvisiMole](#) can inject itself into another process to avoid detection including use of a technique called ListPlanting that customizes the sorting algorithm in a ListView structure. ^[2]

[.002 Portable Executable Injection](#)

[InvisiMole](#) can inject its backdoor as a portable executable into a target process. ^[2]

[.004 Asynchronous Procedure Call](#)

[InvisiMole](#) can inject its code into a trusted process via the APC queue. ^[2]

[.015 ListPlanting](#)

[InvisiMole](#) has used ListPlanting to inject code into a trusted process. ^[2]

Enterprise [T1090 .001 Proxy: Internal Proxy](#)

[InvisiMole](#) can function as a proxy to create a server that relays communication between the client and C&C server, or between two clients. ^[1]

[.002 Proxy: External Proxy](#)

[InvisiMole](#) InvisiMole can identify proxy servers used by the victim and use them for C2 communication. ^{[1][2]}

Enterprise [T1012 Query Registry](#)

[InvisiMole](#) can enumerate Registry values, keys, and data. ^[1]

Enterprise [T1053 .005 Scheduled Task/Job: Scheduled Task](#)

[InvisiMole](#) has used scheduled tasks named `MSST` and `\Microsoft\Windows\Autochk\Scheduled` to establish persistence. ^[2]

Enterprise [T1113 Screen Capture](#)

[InvisiMole](#) can capture screenshots of not only the entire screen, but of each separate window open, in case they are overlapping. ^{[1][2]}

Enterprise [T1518 Software Discovery](#)

[InvisiMole](#) can collect information about installed software used by specific users, software executed on user login, and software executed by each system. ^{[1][2]}

[.001 Security Software Discovery](#)

[InvisiMole](#) can check for the presence of network sniffers, AV, and BitDefender firewall. ^[2]

Enterprise [T1218 .002 System Binary Proxy Execution: Control Panel](#)

[InvisiMole](#) can register itself for execution and persistence via the Control Panel. ^[2]

[.011 System Binary Proxy Execution: Rundll32](#)

[InvisiMole](#) has used rundll32.exe for execution. ^[2]

Enterprise [T1082 System Information Discovery](#)

[InvisiMole](#) can gather information on the OS version, computer name, DEP policy, and memory size. ^{[1][2]}

Enterprise [T1016 System Network Configuration Discovery](#)

[InvisiMole](#) gathers information on the IP forwarding table, MAC address, configured proxy, and network SSID. ^{[1][2]}

Enterprise [T1033 System Owner/User Discovery](#)

[InvisiMole](#) lists local users and session information. ^[1]

Enterprise [T1007 System Service Discovery](#)

[InvisiMole](#) can obtain running services on the victim. ^[1]

Enterprise [T1569 .002 System Services: Service Execution](#)

[InvisiMole](#) has used Windows services as a way to execute its malicious payload. ^[2]

Enterprise [T1124 System Time Discovery](#)

[InvisiMole](#) gathers the local system time from the victim's machine. ^{[1][2]}

Enterprise [T1080 Taint Shared Content](#)

[InvisiMole](#) can replace legitimate software or documents in the compromised network with their trojanized versions, in an attempt to propagate itself within the network. ^[2]

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

[InvisiMole](#) can deliver trojanized versions of software and documents, relying on user execution. ^[2]

Enterprise [T1125 Video Capture](#)

[InvisiMole](#) can remotely activate the victim's webcam to capture content. ^{[1][2]}

Enterprise [T1497 .001 Virtualization/Sandbox Evasion: System Checks](#)

[InvisiMole](#) can check for artifacts of VirtualBox, Virtual PC and VMware environment, and terminate itself if they are detected. ^[2]

Source: <https://attack.mitre.org/software/S0260>