

Helminth, Software S0170 | MITRE ATT&CK®

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

[Helminth](#) can use HTTP for C2. ^[1]

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

[Helminth](#) can use DNS for C2. ^[1]

Enterprise [T1119 Automated Collection](#)

A [Helminth](#) VBScript receives a batch script to execute a set of commands in a command prompt. ^[1]

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

[Helminth](#) establishes persistence by creating a shortcut in the Start Menu folder. ^[1]

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

[Helminth](#) establishes persistence by creating a shortcut. ^[1]

Enterprise [T1115 Clipboard Data](#)

The executable version of [Helminth](#) has a module to log clipboard contents. ^[1]

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

One version of [Helminth](#) uses a PowerShell script. ^[1]

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

[Helminth](#) can provide a remote shell. One version of [Helminth](#) uses batch scripting. ^[1]

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

One version of [Helminth](#) consists of VBScript scripts. ^[1]

Enterprise [T1132 .001 Data Encoding: Standard Encoding](#)

For C2 over HTTP, [Helminth](#) encodes data with base64 and sends it via the "Cookie" field of HTTP requests. For C2 over DNS, [Helminth](#) converts ASCII characters into their hexadecimal values and sends the data in cleartext.

^[1]

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

[Helminth](#) creates folders to store output from batch scripts prior to sending the information to its C2 server.^[1]

Enterprise [T1030 Data Transfer Size Limits](#)

[Helminth](#) splits data into chunks up to 23 bytes and sends the data in DNS queries to its C2 server.^[1]

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

[Helminth](#) encrypts data sent to its C2 server over HTTP with RC4.^[1]

Enterprise [T1105 Ingress Tool Transfer](#)

[Helminth](#) can download additional files.^[1]

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

The executable version of [Helminth](#) has a module to log keystrokes.^[1]

Enterprise [T1027 .013 Obfuscated Files or Information: Encrypted/Encoded File](#)

The [Helminth](#) config file is encrypted with RC4.^[1]

Enterprise [T1069 .001 Permission Groups Discovery: Local Groups](#)

[Helminth](#) has checked the local administrators group.^[2]

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

[Helminth](#) has checked for the domain admin group and Exchange Trusted Subsystem groups using the commands

```
net group Exchange Trusted Subsystem /domain and net group domain admins /domain .[2]
```

Enterprise [T1057 Process Discovery](#)

[Helminth](#) has used [Tasklist](#) to get information on processes.^[2]

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

[Helminth](#) has used a scheduled task for persistence.^[3]

Enterprise [T1553 .002 Subvert Trust Controls: Code Signing](#)

[Helminth](#) samples have been signed with legitimate, compromised code signing certificates owned by software company AI Squared.^[3]