

Bisonal, Software S0268 | MITRE ATT&CK®

Archived: 2026-04-05 18:38:09 UTC

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

[Bisonal](#) has used HTTP for C2 communications. [\[1\]\[3\]](#)

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

[Bisonal](#) has added itself to the Registry key `HKEY_CURRENT_USER\Software\Microsoft\CurrentVersion\Run\` for persistence. [\[1\]\[2\]](#)

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

[Bisonal](#) has launched cmd.exe and used the ShellExecuteW() API function to execute commands on the system. [\[1\]\[3\]\[2\]](#)

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

[Bisonal](#)'s dropper creates VBS scripts on the victim's machine. [\[1\]\[2\]](#)

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

[Bisonal](#) has been modified to be used as a Windows service. [\[2\]](#)

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

[Bisonal](#) has encoded binary data with Base64 and ASCII. [\[3\]\[2\]](#)

Enterprise [T1005 Data from Local System](#)

[Bisonal](#) has collected information from a compromised host. [\[2\]](#)

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

[Bisonal](#) has decoded strings in the malware using XOR and RC4. [\[1\]\[2\]](#)

Enterprise [T1568 Dynamic Resolution](#)

[Bisonal](#) has used a dynamic DNS service for C2. [\[2\]](#)

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

[Bisonal](#) variants reported on in 2014 and 2015 used a simple XOR cipher for C2. Some [Bisonal](#) samples encrypt C2 communications with RC4. [\[1\]\[3\]\[2\]](#)

Enterprise [T1041 Exfiltration Over C2 Channel](#)

[Bisonal](#) has added the exfiltrated data to the URL over the C2 channel.^[2]

Enterprise [T1083 File and Directory Discovery](#)

[Bisonal](#) can retrieve a file listing from the system.^{[3][2]}

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

[Bisonal](#) will delete its dropper and VBS scripts from the victim's machine.^{[1][3][2]}

Enterprise [T1105 Ingress Tool Transfer](#)

[Bisonal](#) has the capability to download files to execute on the victim's machine.^{[1][3][2]}

Enterprise [T1036 Masquerading](#)

[Bisonal](#) dropped a decoy payload with a .jpg extension that contained a malicious Visual Basic script.^[2]

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

[Bisonal](#) has renamed malicious code to `msacm32.dll` to hide within a legitimate library; earlier versions were disguised as `winhelp`.^[2]

Enterprise [T1112 Modify Registry](#)

[Bisonal](#) has deleted Registry keys to clean up its prior activity.^[2]

Enterprise [T1106 Native API](#)

[Bisonal](#) has used the Windows API to communicate with the Service Control Manager to execute a thread.^[2]

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

[Bisonal](#) has used raw sockets for network communication.^[2]

Enterprise [T1027 .001 Obfuscated Files or Information: Binary Padding](#)

[Bisonal](#) has appended random binary data to the end of itself to generate a large binary.^[2]

[.002 Obfuscated Files or Information: Software Packing](#)

[Bisonal](#) has used the MPRESS packer and similar tools for obfuscation.^[2]

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

[Bisonal](#)'s DLL file and non-malicious decoy file are encrypted with RC4 and some function name strings are obfuscated.^{[1][2]}

Enterprise [T1137 .006 Office Application Startup: Add-ins](#)

[Bisonal](#) has been loaded through a `.wll` extension added to the `%APPDATA%\microsoft\word\startup\` repository.^[2]

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

[Bisonal](#) has been delivered as malicious email attachments.^[2]

Enterprise [T1057 Process Discovery](#)

[Bisonal](#) can obtain a list of running processes on the victim's machine.^{[1][3][2]}

Enterprise [T1090 Proxy](#)

[Bisonal](#) has supported use of a proxy server.^[2]

Enterprise [T1012 Query Registry](#)

[Bisonal](#) has used the `RegQueryValueExA` function to retrieve proxy information in the Registry.^[2]

Enterprise [T1218 .011 System Binary Proxy Execution: Rundll32](#)

[Bisonal](#) has used `rundll32.exe` to execute as part of the Registry Run key it adds: `HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Run\vert" = "rundll32.exe c:\windows\temp\pvcu.dll , Qszdez"`.^[1]

Enterprise [T1082 System Information Discovery](#)

[Bisonal](#) has used commands and API calls to gather system information.^{[1][3][2]}

Enterprise [T1016 System Network Configuration Discovery](#)

[Bisonal](#) can execute `ipconfig` on the victim's machine.^{[1][3][2]}

Enterprise [T1124 System Time Discovery](#)

[Bisonal](#) can check the system time set on the infected host.^[3]

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

[Bisonal](#) has relied on users to execute malicious file attachments delivered via spearphishing emails.^[2]

Enterprise [T1497 Virtualization/Sandbox Evasion](#)

[Bisonal](#) can check to determine if the compromised system is running on VMware.^[2]

[.003 Time Based Checks](#)

[Bisonal](#) has checked if the malware is running in a virtual environment with the anti-debug function `GetTickCount()` to compare the timing. [\[3\]\[2\]](#)

Source: <https://attack.mitre.org/software/S0268/>