

# NETMANAGEIT

# Intelligence Report

## Security Brief: TA571

### Delivers IcedID Forked Loader

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# Overview

## Description

Proofpoint researchers identified TA571 delivering the Forked variant of IcedID in two campaigns on 11 and 18 October 2023. Both campaigns included over 6,000 messages, each impacting over 1,200 customers in a variety of industries globally.

## Confidence

*This value represents the confidence in the correctness of the data contained within this report.*

15 / 100

# Content

N/A

# Attack-Pattern

Name
Boot or Logon Autostart Execution
ID
T1547
Description
Adversaries may configure system settings to automatically execute a program during system boot or logon to maintain persistence or gain higher-level privileges on compromised systems. Operating systems may have mechanisms for automatically running a program on system boot or account logon.(Citation: Microsoft Run Key)(Citation: MSDN Authentication Packages)(Citation: Microsoft TimeProvider)(Citation: Cylance Reg Persistence Sept 2013)(Citation: Linux Kernel Programming) These mechanisms may include automatically executing programs that are placed in specially designated directories or are referenced by repositories that store configuration information, such as the Windows Registry. An adversary may achieve the same goal by modifying or extending features of the kernel. Since some boot or logon autostart programs run with higher privileges, an adversary may leverage these to elevate privileges.
Name
Browser Session Hijacking
ID
T1185

**Description**

Adversaries may take advantage of security vulnerabilities and inherent functionality in browser software to change content, modify user-behaviors, and intercept information as part of various browser session hijacking techniques.(Citation: Wikipedia Man in the Browser) A specific example is when an adversary injects software into a browser that allows them to inherit cookies, HTTP sessions, and SSL client certificates of a user then use the browser as a way to pivot into an authenticated intranet.(Citation: Cobalt Strike Browser Pivot)(Citation: ICEBRG Chrome Extensions) Executing browser-based behaviors such as pivoting may require specific process permissions, such as `SeDebugPrivilege` and/or high-integrity/administrator rights. Another example involves pivoting browser traffic from the adversary's browser through the user's browser by setting up a proxy which will redirect web traffic. This does not alter the user's traffic in any way, and the proxy connection can be severed as soon as the browser is closed. The adversary assumes the security context of whichever browser process the proxy is injected into. Browsers typically create a new process for each tab that is opened and permissions and certificates are separated accordingly. With these permissions, an adversary could potentially browse to any resource on an intranet, such as [Sharepoint](<https://attack.mitre.org/techniques/T1213/002>) or webmail, that is accessible through the browser and which the browser has sufficient permissions. Browser pivoting may also bypass security provided by 2-factor authentication.(Citation: cobaltstrike manual)

**Name**

Process Injection

**ID**

T1055

**Description**

Adversaries may inject code into processes in order to evade process-based defenses as well as possibly elevate privileges. Process injection is a method of executing arbitrary code in the address space of a separate live process. Running code in the context of another process may allow access to the process's memory, system/network resources, and possibly elevated privileges. Execution via process injection may also evade detection from security products since the execution is masked under a legitimate process. There are many different ways to inject code into a process, many of which abuse legitimate functionalities. These implementations exist for every major OS but are typically platform

specific. More sophisticated samples may perform multiple process injections to segment modules and further evade detection, utilizing named pipes or other inter-process communication (IPC) mechanisms as a communication channel.

<b>Name</b>
User Execution
<b>ID</b>
T1204
<b>Description</b>
<p>An adversary may rely upon specific actions by a user in order to gain execution. Users may be subjected to social engineering to get them to execute malicious code by, for example, opening a malicious document file or link. These user actions will typically be observed as follow-on behavior from forms of [Phishing](<a href="https://attack.mitre.org/techniques/T1566">https://attack.mitre.org/techniques/T1566</a>). While [User Execution](<a href="https://attack.mitre.org/techniques/T1204">https://attack.mitre.org/techniques/T1204</a>) frequently occurs shortly after Initial Access it may occur at other phases of an intrusion, such as when an adversary places a file in a shared directory or on a user's desktop hoping that a user will click on it. This activity may also be seen shortly after [Internal Spearphishing](<a href="https://attack.mitre.org/techniques/T1534">https://attack.mitre.org/techniques/T1534</a>). Adversaries may also deceive users into performing actions such as enabling [Remote Access Software](<a href="https://attack.mitre.org/techniques/T1219">https://attack.mitre.org/techniques/T1219</a>), allowing direct control of the system to the adversary, or downloading and executing malware for [User Execution](<a href="https://attack.mitre.org/techniques/T1204">https://attack.mitre.org/techniques/T1204</a>). For example, tech support scams can be facilitated through [Phishing](<a href="https://attack.mitre.org/techniques/T1566">https://attack.mitre.org/techniques/T1566</a>), vishing, or various forms of user interaction. Adversaries can use a combination of these methods, such as spoofing and promoting toll-free numbers or call centers that are used to direct victims to malicious websites, to deliver and execute payloads containing malware or [Remote Access Software](<a href="https://attack.mitre.org/techniques/T1219">https://attack.mitre.org/techniques/T1219</a>).(Citation: Telephone Attack Delivery)</p>
<b>Name</b>
Native API
<b>ID</b>

T1106

**Description**

Adversaries may interact with the native OS application programming interface (API) to execute behaviors. Native APIs provide a controlled means of calling low-level OS services within the kernel, such as those involving hardware/devices, memory, and processes. (Citation: NT API Windows)(Citation: Linux Kernel API) These native APIs are leveraged by the OS during system boot (when other system components are not yet initialized) as well as carrying out tasks and requests during routine operations. Native API functions (such as `NtCreateProcess`) may be directed invoked via system calls / syscalls, but these features are also often exposed to user-mode applications via interfaces and libraries.(Citation: OutFlank System Calls)(Citation: CyberBit System Calls)(Citation: MDSec System Calls) For example, functions such as the Windows API `CreateProcess()` or GNU `fork()` will allow programs and scripts to start other processes.(Citation: Microsoft CreateProcess)(Citation: GNU Fork) This may allow API callers to execute a binary, run a CLI command, load modules, etc. as thousands of similar API functions exist for various system operations. (Citation: Microsoft Win32)(Citation: LIBC)(Citation: GLIBC) Higher level software frameworks, such as Microsoft .NET and macOS Cocoa, are also available to interact with native APIs. These frameworks typically provide language wrappers/abstractions to API functionalities and are designed for ease-of-use/portability of code.(Citation: Microsoft NET)(Citation: Apple Core Services)(Citation: MACOS Cocoa)(Citation: macOS Foundation) Adversaries may abuse these OS API functions as a means of executing behaviors. Similar to [Command and Scripting Interpreter](<https://attack.mitre.org/techniques/T1059>), the native API and its hierarchy of interfaces provide mechanisms to interact with and utilize various components of a victimized system. While invoking API functions, adversaries may also attempt to bypass defensive tools (ex: unhooking monitored functions via [Disable or Modify Tools](<https://attack.mitre.org/techniques/T1562/001>)).

**Name**

Command and Scripting Interpreter

**ID**

T1059

**Description**

Adversaries may abuse command and script interpreters to execute commands, scripts, or binaries. These interfaces and languages provide ways of interacting with computer systems and are a common feature across many different platforms. Most systems come with some built-in command-line interface and scripting capabilities, for example, macOS and Linux distributions include some flavor of [Unix Shell](<https://attack.mitre.org/techniques/T1059/004>) while Windows installations include the [Windows Command Shell](<https://attack.mitre.org/techniques/T1059/003>) and [PowerShell](<https://attack.mitre.org/techniques/T1059/001>). There are also cross-platform interpreters such as [Python](<https://attack.mitre.org/techniques/T1059/006>), as well as those commonly associated with client applications such as [JavaScript](<https://attack.mitre.org/techniques/T1059/007>) and [Visual Basic](<https://attack.mitre.org/techniques/T1059/005>). Adversaries may abuse these technologies in various ways as a means of executing arbitrary commands. Commands and scripts can be embedded in [Initial Access](<https://attack.mitre.org/tactics/TA0001>) payloads delivered to victims as lure documents or as secondary payloads downloaded from an existing C2. Adversaries may also execute commands through interactive terminals/shells, as well as utilize various [Remote Services](<https://attack.mitre.org/techniques/T1021>) in order to achieve remote Execution. (Citation: Powershell Remote Commands)(Citation: Cisco IOS Software Integrity Assurance - Command History)(Citation: Remote Shell Execution in Python)

**Name**

Account Discovery

**ID**

T1087

**Description**

Adversaries may attempt to get a listing of valid accounts, usernames, or email addresses on a system or within a compromised environment. This information can help adversaries determine which accounts exist, which can aid in follow-on behavior such as brute-forcing, spear-phishing attacks, or account takeovers (e.g., [Valid Accounts](<https://attack.mitre.org/techniques/T1078>)). Adversaries may use several methods to enumerate accounts, including abuse of existing tools, built-in commands, and potential misconfigurations that leak account names and roles or permissions in the targeted environment. For examples, cloud environments typically provide easily accessible interfaces to obtain user lists. On hosts, adversaries can use default [PowerShell](<https://attack.mitre.org/techniques/T1059/001>) and other command line functionality to identify

accounts. Information about email addresses and accounts may also be extracted by searching an infected system's files.

**Name**

Application Layer Protocol

**ID**

T1071

**Description**

Adversaries may communicate using OSI application layer protocols to avoid detection/network filtering by blending in with existing traffic. Commands to the remote system, and often the results of those commands, will be embedded within the protocol traffic between the client and server. Adversaries may utilize many different protocols, including those used for web browsing, transferring files, electronic mail, or DNS. For connections that occur internally within an enclave (such as those between a proxy or pivot node and other nodes), commonly used protocols are SMB, SSH, or RDP.

**Name**

System Binary Proxy Execution

**ID**

T1218

**Description**

Adversaries may bypass process and/or signature-based defenses by proxying execution of malicious content with signed, or otherwise trusted, binaries. Binaries used in this technique are often Microsoft-signed files, indicating that they have been either downloaded from Microsoft or are already native in the operating system.(Citation: LOLBAS Project) Binaries signed with trusted digital certificates can typically execute on Windows systems protected by digital signature validation. Several Microsoft signed binaries that are default on Windows installations can be used to proxy execution of other files or

commands. Similarly, on Linux systems adversaries may abuse trusted binaries such as `split` to proxy execution of malicious commands.(Citation: split man page)(Citation: GTFO split)

# Domain-Name

Value
gestionhqse.com
gilaniultrasound.com
karo.ca
modalefastnow.com
opuscards.ca
cornerbakeryrestaurant.net
ekaraj.ir
naughtycharlotte.com
liguys.com
compacta.com
jerryposter.com
roatancruiseship.com
brandworks.com.au

jonanna.com

# StixFile

## Value

5d5bc4f497406b59369901b9a79e1e9d1e0a690c0b2e803f4fbfcb391bcfeef1

57897b750473215a2ea6a15070ad5334465019ea4847a2c3c92dae8e5845b2c4

6c6a68da31204cfe93ee86cd85cf668a20259220ad44341b3915396e263e4f86

0a61d734db49fdf92f018532b2d5e512e90ae0b1657c277634aa06e7b71833c4

a12045a6177dd32af8b39dea93fa92962ff1716381d0d137dede1fc75ecd2c0c

# External References

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- <https://otx.alienvault.com/pulse/653ffea19a18b3b8df3684eb>