

Kimsuky, Black Banshee, Velvet Chollima, Emerald Sleet, THALLIUM, APT43, TA427, Springtail, Group G0094

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Enterprise [T1098](#) [.007 Account Manipulation: Additional Local or Domain Groups](#)

[Kimsuky](#) has added accounts to specific groups with `net localgroup`.^[15]

Enterprise [T1583 Acquire Infrastructure](#)

[Kimsuky](#) has used funds from stolen and laundered cryptocurrency to acquire operational infrastructure.^[5]

[.001 Domains](#)

[Kimsuky](#) has registered domains to spoof targeted organizations and trusted third parties including search engines, web platforms, and cryptocurrency exchanges.^{[12][16][4][2][3][15][5][17]}

[.004 Server](#)

[Kimsuky](#) has purchased hosting servers with virtual currency and prepaid cards.^[15]

[.006 Web Services](#)

[Kimsuky](#) has hosted content used for targeting efforts via web services such as Blogspot.^[18] [Kimsuky](#) has also leveraged Dropbox for hosting payloads and uploading victim system information.^[19]

Enterprise [T1557 Adversary-in-the-Middle](#)

[Kimsuky](#) has used modified versions of PHPProxy to examine web traffic between the victim and the accessed website.^[4]

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

[Kimsuky](#) has used HTTP GET and POST requests for C2.^[18]

[.002 Application Layer Protocol: File Transfer Protocols](#)

[Kimsuky](#) has used FTP to download additional malware to the target machine.^[20]

[.003 Application Layer Protocol: Mail Protocols](#)

[Kimsuky](#) has used e-mail to send exfiltrated data to C2 servers.^[4]

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

[Kimsuky](#) has used QuickZip to archive stolen files before exfiltration. ^[18]

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

[Kimsuky](#) has used RC4 encryption before exfil. ^[21]

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

[Kimsuky](#) has placed scripts in the startup folder for persistence and modified the

`HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\RunOnce` Registry key. ^{[21][4][22][18][15]}

Enterprise [T1185 Browser Session Hijacking](#)

[Kimsuky](#) has the ability to use form-grabbing to extract emails and passwords from web data forms. ^[23]

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

[Kimsuky](#) has executed a variety of PowerShell scripts including Invoke-Mimikatz. ^{[1][4][18][15][5]} [Kimsuky](#) has also utilized PowerShell scripts for execution, persistence, and defense evasion. ^[19]

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

[Kimsuky](#) has executed Windows commands by using `cmd` and running batch scripts. ^{[18][15]}

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

[Kimsuky](#) has used Visual Basic to download malicious payloads. ^{[12][20][22][18]} [Kimsuky](#) has also used malicious VBA macros within maldocs disguised as forms that trigger when a victim types any content into the lure. ^[18]

[.006 Command and Scripting Interpreter: Python](#)

[Kimsuky](#) has used a macOS Python implant to gather data as well as MailFetcher.py code to automatically collect email data. ^{[4][15]}

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

[Kimsuky](#) has used JScript for logging and downloading additional tools. ^{[20][4]} [Kimsuky](#) has used [TRANSLATEXT](#), which contained four Javascript files for bypassing defenses, collecting sensitive information and screenshots, and exfiltrating data. ^[23]

Enterprise [T1586 .002 Compromise Accounts: Email Accounts](#)

[Kimsuky](#) has compromised email accounts to send spearphishing e-mails. ^{[20][3]}

Enterprise [T1584 .001 Compromise Infrastructure: Domains](#)

[Kimsuky](#) has compromised legitimate sites and used them to distribute malware. ^{[15][5][17]}

Enterprise [T1136 .001 Create Account: Local Account](#)

[Kimsuky](#) has created accounts with `net user`.^[15]

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

[Kimsuky](#) has created new services for persistence.^{[21][4]}

Enterprise [T1555 .003 Credentials from Password Stores: Credentials from Web Browsers](#)

[Kimsuky](#) has used browser extensions including Google Chrome to steal passwords and cookies from browsers.

[Kimsuky](#) has also used Nirsoft's WebBrowserPassView tool to dump the passwords obtained from victims.^{[11][4][7][18]}

Enterprise [T1005 Data from Local System](#)

[Kimsuky](#) has collected Office, PDF, and HWP documents from its victims.^{[21][18]}

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

[Kimsuky](#) has staged collected data files under `C:\Program Files\Common Files\System\OLE DB\`.^{[4][18]}

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

[Kimsuky](#) has decoded malicious VBScripts using Base64.^[18] [Kimsuky](#) has also decoded malicious PowerShell scripts using Base64.^[19]

Enterprise [T1587 Develop Capabilities](#)

[Kimsuky](#) created and used a mailing toolkit to use in spearphishing attacks.^[20]

[.001 Malware](#)

[Kimsuky](#) has developed its own unique malware such as MailFetch.py for use in operations.^{[15][18][5]}

Enterprise [T1114 .002 Email Collection: Remote Email Collection](#)

[Kimsuky](#) has used tools such as the MailFetch mail crawler to collect victim emails (excluding spam) from online services via IMAP.^[15]

[.003 Email Collection: Email Forwarding Rule](#)

[Kimsuky](#) has set auto-forward rules on victim's e-mail accounts.^[4]

Enterprise [T1585 Establish Accounts](#)

[Kimsuky](#) has leveraged stolen PII to create accounts.^[17]

[.001 Social Media Accounts](#)

[Kimsuky](#) has created social media accounts to monitor news and security trends as well as potential targets. ^[15]

[.002 Email Accounts](#)

[Kimsuky](#) has created email accounts for phishing operations. ^{[15][5][6]}

Enterprise [T1546 .001 Event Triggered Execution: Change Default File Association](#)

[Kimsuky](#) has a HWP document stealer module which changes the default program association in the registry to open HWP documents. ^[21]

Enterprise [T1041 Exfiltration Over C2 Channel](#)

[Kimsuky](#) has exfiltrated data over its C2 channel. ^{[21][18]}

Enterprise [T1567 .002 Exfiltration Over Web Service: Exfiltration to Cloud Storage](#)

[Kimsuky](#) has exfiltrated stolen files and data to actor-controlled Blogspot accounts. ^[18] [Kimsuky](#) has also leveraged Dropbox for uploading victim system information. ^[19]

Enterprise [T1190 Exploit Public-Facing Application](#)

[Kimsuky](#) has exploited various vulnerabilities for initial access, including Microsoft Exchange vulnerability CVE-2020-0688. ^[15]

Enterprise [T1133 External Remote Services](#)

[Kimsuky](#) has used RDP to establish persistence. ^[4]

Enterprise [T1083 File and Directory Discovery](#)

[Kimsuky](#) has the ability to enumerate all files and directories on an infected system. ^{[21][18][15]}

Enterprise [T1657 Financial Theft](#)

[Kimsuky](#) has stolen and laundered cryptocurrency to self-fund operations including the acquisition of infrastructure. ^{[5][17]}

Enterprise [T1589 .002 Gather Victim Identity Information: Email Addresses](#)

[Kimsuky](#) has collected valid email addresses including personal accounts that were subsequently used for spearphishing and other forms of social engineering. ^{[3][6][17]}

[.003 Gather Victim Identity Information: Employee Names](#)

[Kimsuky](#) has collected victim employee name information. ^[15]

Enterprise [T1591 Gather Victim Org Information](#)

[Kimsuky](#) has collected victim organization information including but not limited to organization hierarchy, functions, press releases, and others.^[15] [Kimsuky](#) has also used large language models (LLMs) to gather information about potential targets of interest.^[10]

Enterprise [T1564 .002 Hide Artifacts: Hidden Users](#)

[Kimsuky](#) has run `reg add 'HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon\SpecialAccounts\UserList' /v` to hide a newly created user.^[15]

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

[Kimsuky](#) has used an information gathering module that will hide an AV software window from the victim.^[18]

[Kimsuky](#) has also been known to use `-WindowStyle Hidden` to conceal PowerShell windows.^[19]

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

[Kimsuky](#) has been observed turning off Windows Security Center and can hide the AV software window from the view of the infected user.^{[21][18]}

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

[Kimsuky](#) has been observed disabling the system firewall.^[21]

Enterprise [T1656 Impersonation](#)

[Kimsuky](#) has impersonated academic institutions and NGOs in order to gain information related to North Korea.^[10]

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

[Kimsuky](#) has deleted the exfiltrated data on disk after transmission. [Kimsuky](#) has also used an instrumentor script to terminate browser processes running on an infected system and then delete the cookie files on disk.^{[21][18][15]}

[Kimsuky](#) has deleted files using the `Remove-Item` PowerShell commandlet to remove traces of executed payloads.^[19]

[.006 Indicator Removal: Timestamp](#)

[Kimsuky](#) has manipulated timestamps for creation or compilation dates to defeat anti-forensics.^[2]

Enterprise [T1105 Ingress Tool Transfer](#)

[Kimsuky](#) has downloaded additional scripts, tools, and malware onto victim systems.^{[18][22][19]}

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

[Kimsuky](#) has used a PowerShell-based keylogger as well as a tool called MECHANICAL to log keystrokes.^{[1][21][4][7][18][15]}

Enterprise [T1534 Internal Spearphishing](#)

[Kimsuky](#) has sent internal spearphishing emails for lateral movement after stealing victim information. [\[15\]](#)

Enterprise [T1680 Local Storage Discovery](#)

[Kimsuky](#) has enumerated drives. [\[21\]\[18\]](#)

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

[Kimsuky](#) has disguised services to appear as benign software or related to operating system functions. [\[4\]\[19\]](#)

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

[Kimsuky](#) has renamed malware to legitimate names such as `ESTCommon.dll` or `patch.dll`. [\[24\]](#) [Kimsuky](#) has also disguised payloads using legitimate file names including a PowerShell payload named `chrome.ps1`. [\[19\]](#)

[.007 Masquerading: Double File Extension](#)

[Kimsuky](#) has used an additional filename extension to hide the true file type. [Kimsuky](#) has also masqueraded malicious LNK files as PDF objects using the double extension `.pdf.lnk`. [\[19\]](#)

Enterprise [T1112 Modify Registry](#)

[Kimsuky](#) has modified Registry settings for default file associations to enable all macros and for persistence. [\[4\]\[22\]](#)
[\[18\]\[15\]](#)

Enterprise [T1111 Multi-Factor Authentication Interception](#)

[Kimsuky](#) has used a proprietary tool to intercept one time passwords required for two-factor authentication. [\[15\]](#)

Enterprise [T1040 Network Sniffing](#)

[Kimsuky](#) has used the Nirsoft SniffPass network sniffer to obtain passwords sent over non-secure protocols. [\[4\]\[7\]](#)

Enterprise [T1027 Obfuscated Files or Information](#)

[Kimsuky](#) has obfuscated binary strings including the use of XOR encryption and Base64 encoding. [\[12\]\[20\]](#)

[Kimsuky](#) has also modified the first byte of DLL implants targeting victims to prevent recognition of the executable file format. [\[18\]](#)

[.001 Binary Padding](#)

[Kimsuky](#) has performed padding of PowerShell command line code with over 100 spaces. [\[19\]](#)

[.002 Software Packing](#)

[Kimsuky](#) has packed malware with UPX. [\[3\]](#)

[.010 Command Obfuscation](#)

[Kimsuky](#) has encoded malicious PowerShell scripts using Base64. ^[19]

[.012 LNK Icon Smuggling](#)

[Kimsuky](#) has used the LNK icon location to execute malicious scripts. [Kimsuky](#) has also padded the LNK target field properties with extra spaces to obscure the script. ^[19]

[.016 Junk Code Insertion](#)

[Kimsuky](#) has obfuscated code by filling scripts with junk code and concatenating strings to hamper analysis and detection. ^[19]

Enterprise [T1588 .002 Obtain Capabilities: Tool](#)

[Kimsuky](#) has obtained and used tools such as Nirsoft WebBrowserPassView, [Mimikatz](#), and [PsExec](#). ^{[7][18][5]}

[.003 Obtain Capabilities: Code Signing Certificates](#)

[Kimsuky](#) has stolen a valid certificate that is used to sign the malware and the dropper. ^[25]

[.005 Obtain Capabilities: Exploits](#)

[Kimsuky](#) has obtained exploit code for various CVEs. ^[15]

Enterprise [T1003 .001 OS Credential Dumping: LSASS Memory](#)

[Kimsuky](#) has gathered credentials using [Mimikatz](#) and ProcDump. ^{[4][7][15]}

Enterprise [T1566 Phishing](#)

[Kimsuky](#) has used spearphishing to gain initial access and intelligence. ^{[10][17]}

[.001 Spearphishing Attachment](#)

[Kimsuky](#) has used emails containing Word, Excel and/or HWP (Hangul Word Processor) documents in their spearphishing campaigns. ^{[11][21][12][20][2][3][18][15]} [Kimsuky](#) has also distributed emails with attached compressed zip files that contained malicious .LNK files masquerading as legitimate files. ^[19]

[.002 Spearphishing Link](#)

[Kimsuky](#) has sent spearphishing emails containing a link to a document that contained malicious macros or took the victim to an actor-controlled domain. ^{[1][7][15]}

Enterprise [T1598 Phishing for Information](#)

[Kimsuky](#) has used tailored spearphishing emails to gather victim information including contact lists to identify additional targets. ^[5]

[.003 Spearphishing Link](#)

[Kimsuky](#) has used links in e-mail to steal account information including web beacons for target profiling.^{[20][3][15]}
^[6]

Enterprise [T1057 Process Discovery](#)

[Kimsuky](#) can gather a list of all processes running on a victim's machine.^[18] [Kimsuky](#) has also obtained running processes on the victim device utilizing PowerShell cmdlet `Get-Process`.^[19]

Enterprise [T1055 Process Injection](#)

[Kimsuky](#) has used Win7Elevate to inject malicious code into explorer.exe.^[21]

[.012 Process Hollowing](#)

[Kimsuky](#) has used a file injector DLL to spawn a benign process on the victim's system and inject the malicious payload into it via process hollowing.^[18]

Enterprise [T1012 Query Registry](#)

[Kimsuky](#) has obtained specific Registry keys and values on a compromised host.^[18]

Enterprise [T1620 Reflective Code Loading](#)

[Kimsuky](#) has used the Invoke-Mimikatz PowerShell script to reflectively load a Mimikatz credential stealing DLL into memory.^[5] [Kimsuky](#) has also used reflective loading through .NET assembly using

```
[System.Reflection.Assembly]::Load .[19]
```

Enterprise [T1219 .002 Remote Access Tools: Remote Desktop Software](#)

[Kimsuky](#) has used a modified TeamViewer client as a command and control channel.^{[21][22]}

Enterprise [T1021 .001 Remote Services: Remote Desktop Protocol](#)

[Kimsuky](#) has used RDP for direct remote point-and-click access.^[7]

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

[Kimsuky](#) has downloaded additional malware with scheduled tasks.^[15] [Kimsuky](#) has established persistence by creating a scheduled task named "ChromeUpdateTaskMachine" through the PowerShell cmdlet `Register-ScheduleTask` which was set to execute another PowerShell script once, then five minutes after its creation and periodically repeat every 30 minutes.^[19]

Enterprise [T1113 Screen Capture](#)

[Kimsuky](#) has captured browser screenshots using [TRANSLATEXT](#).^[23]

Enterprise [T1596 Search Open Technical Databases](#)

[Kimsuky](#) has used LLMs to better understand publicly reported vulnerabilities. [\[10\]\[26\]](#)

Enterprise [T1593 Search Open Websites/Domains](#)

[Kimsuky](#) has used LLMs to identify think tanks, government organizations, etc. that have information. [\[10\]](#)

[.001 Social Media](#)

[Kimsuky](#) has used Twitter to monitor potential victims and to prepare targeted phishing e-mails. [\[3\]](#)

[.002 Search Engines](#)

[Kimsuky](#) has searched for vulnerabilities, tools, and geopolitical trends on Google to target victims. [\[15\]](#)

Enterprise [T1594 Search Victim-Owned Websites](#)

[Kimsuky](#) has searched for information on the target company's website. [\[15\]](#)

Enterprise [T1505 .003 Server Software Component: Web Shell](#)

[Kimsuky](#) has used modified versions of open source PHP web shells to maintain access, often adding "Dinosaur" references within the code. [\[4\]](#)

Enterprise [T1518 .001 Software Discovery: Security Software Discovery](#)

[Kimsuky](#) has checked for the presence of antivirus software with `powershell Get-CimInstance -Namespace root/securityCenter2 - classname antivirusproduct`. [\[15\]](#) [Kimsuky](#) has also obtained details on antivirus software through WMI queries using `Win32_OperatingSystem` and `SecurityCenter2.AntiVirusProduct`. [\[19\]](#)

Enterprise [T1176 .001 Software Extensions: Browser Extensions](#)

[Kimsuky](#) has used Google Chrome browser extensions to infect victims and to steal passwords and cookies. [\[11\]\[7\]](#)

Enterprise [T1608 .001 Stage Capabilities: Upload Malware](#)

[Kimsuky](#) has used compromised and acquired infrastructure to host and deliver malware including Blogspot to host beacons, file exfiltrators, and implants. [\[18\]\[5\]\[17\]](#) [Kimsuky](#) has also hosted malicious payloads on Dropbox. [\[19\]](#)

Enterprise [T1539 Steal Web Session Cookie](#)

[Kimsuky](#) has used malware, such as [TRANSLATEXT](#), to steal and exfiltrate browser cookies. [\[23\]\[25\]](#)

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

[Kimsuky](#) has signed files with the name EGIS CO., Ltd. and has stolen a valid certificate that is used to sign the malware and the dropper. [\[12\]\[25\]](#)

Enterprise [T1218 .005 System Binary Proxy Execution: Mshta](#)

[Kimsuky](#) has used mshta.exe to run malicious scripts on the system. [\[1\]](#)[\[4\]](#)[\[22\]](#)[\[15\]](#)

[.010 System Binary Proxy Execution: Regsvr32](#)

[Kimsuky](#) has executed malware with `regsvr32s`. [\[15\]](#)

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

[Kimsuky](#) has used `rundll32.exe` to execute malicious scripts and malware on a victim's network. [\[18\]](#)

Enterprise [T1082 System Information Discovery](#)

[Kimsuky](#) has enumerated OS type, OS version, and other information using a script or the "systeminfo" command.

[\[21\]](#)[\[18\]](#) [Kimsuky](#) has also obtained system information such as OS type, OS version, and system type through querying various Windows Management Instrumentation (WMI) classes including `Win32_OperatingSystem`. [\[19\]](#)

Enterprise [T1016 System Network Configuration Discovery](#)

[Kimsuky](#) has used `ipconfig/all` and web beacons sent via email to gather network configuration information.

[\[18\]](#)[\[6\]](#) [Kimsuky](#) has also identified Host IP addresses leveraging the WMI class

`Win32_NetworkAdapterConfiguration`. [\[19\]](#)

Enterprise [T1007 System Service Discovery](#)

[Kimsuky](#) has used an instrumentor script to gather the names of all services running on a victim's system. [\[18\]](#)

Enterprise [T1205 Traffic Signaling](#)

[Kimsuky](#) has used `TRANSLATEXT` to redirect clients to legitimate Gmail, Naver or Kakao pages if the clients connect with no parameters. [\[23\]](#)

Enterprise [T1552 .001 Unsecured Credentials: Credentials In Files](#)

[Kimsuky](#) has used tools that are capable of obtaining credentials from saved mail. [\[7\]](#)

Enterprise [T1550 .002 Use Alternate Authentication Material: Pass the Hash](#)

[Kimsuky](#) has used pass the hash for authentication to remote access software used in C2. [\[4\]](#)

Enterprise [T1204 .001 User Execution: Malicious Link](#)

[Kimsuky](#) has lured victims into clicking malicious links. [\[15\]](#)

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

[Kimsuky](#) has attempted to lure victims into opening malicious e-mail attachments.^{[12][20][4][2][3][18]} [Kimsuky](#) has also lured victims with tailored filenames and fake extensions that entice victims to open LNK files.^[19]

Enterprise [T1078 .003 Valid Accounts: Local Accounts](#)

[Kimsuky](#) has used a tool called GREASE to add a Windows admin account in order to allow them continued access via RDP.^[7]

Enterprise [T1102 .001 Web Service: Dead Drop Resolver](#)

[Kimsuky](#) has used [TRANSLATEXT](#) and a dead drop resolver to retrieve configurations and commands from a public blog site.^[23]

[.002 Web Service: Bidirectional Communication](#)

[Kimsuky](#) has used Blogspot pages and a Github repository for C2.^{[18][23]} [Kimsuky](#) has also leveraged Dropbox for downloading payloads and uploading victim system information.^[19]

Source: <https://attack.mitre.org/groups/G0086/>