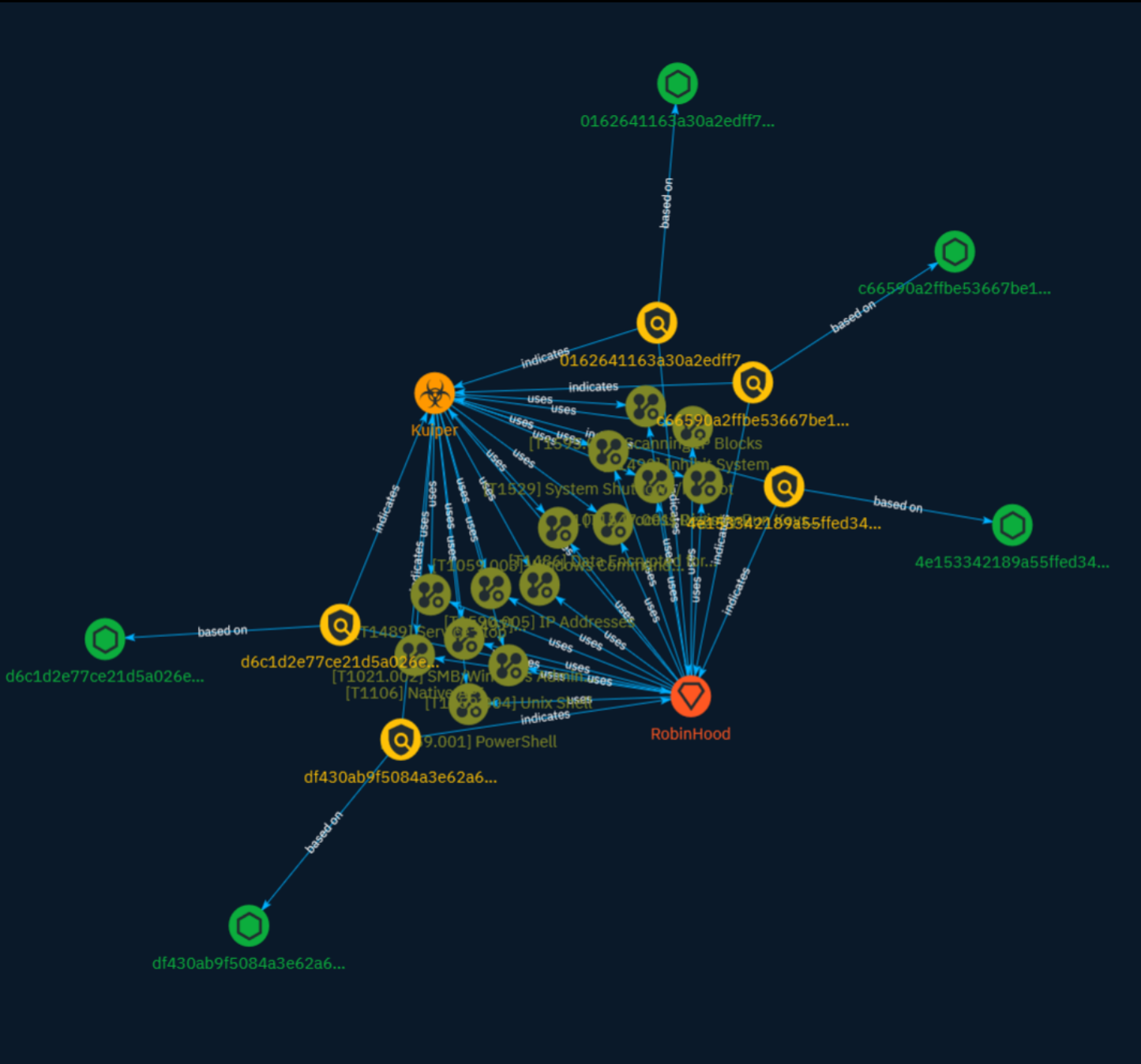


# NETMANAGEIT

## Intelligence Report Kuiper Ransomware's Evolution



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# Overview

## Description

The Golang-based Kuiper ransomware is presented as an opportunity for other criminals to make money by ransoming one or more targets. Additionally, RobinHood, the actor behind Kuiper, states that help with operations can be provided for a commission. A leak site, to double extort victims (once by ransoming their systems, and again by threatening to publish the stolen data if the ransom demand is not met) is in the works, but remains unfinished.

## Confidence

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

15 / 100

# Content

N/A

# Attack-Pattern

## Name

Process Discovery

## ID

T1057

## Description

Adversaries may attempt to get information about running processes on a system. Information obtained could be used to gain an understanding of common software/ applications running on systems within the network. Adversaries may use the information from [Process Discovery](https://attack.mitre.org/techniques/T1057) during automated discovery to shape follow-on behaviors, including whether or not the adversary fully infects the target and/or attempts specific actions. In Windows environments, adversaries could obtain details on running processes using the [Tasklist](https://attack.mitre.org/software/S0057) utility via [cmd](https://attack.mitre.org/software/S0106) or `Get-Process` via [PowerShell](https://attack.mitre.org/techniques/T1059/001). Information about processes can also be extracted from the output of [Native API](https://attack.mitre.org/techniques/T1106) calls such as `CreateToolhelp32Snapshot`. In Mac and Linux, this is accomplished with the `ps` command. Adversaries may also opt to enumerate processes via `/proc`. On network devices, [Network Device CLI](https://attack.mitre.org/techniques/T1059/008) commands such as `show processes` can be used to display current running processes.(Citation: US-CERT-TA18-106A)(Citation: show\_processes\_cisco\_cmd)

## Name

SMB/Windows Admin Shares

**ID**

T1021.002

**Description**

Adversaries may use [Valid Accounts](<https://attack.mitre.org/techniques/T1078>) to interact with a remote network share using Server Message Block (SMB). The adversary may then perform actions as the logged-on user. SMB is a file, printer, and serial port sharing protocol for Windows machines on the same network or domain. Adversaries may use SMB to interact with file shares, allowing them to move laterally throughout a network. Linux and macOS implementations of SMB typically use Samba. Windows systems have hidden network shares that are accessible only to administrators and provide the ability for remote file copy and other administrative functions. Example network shares include `C\$`, `ADMIN\$`, and `IPC\$`. Adversaries may use this technique in conjunction with administrator-level [Valid Accounts](<https://attack.mitre.org/techniques/T1078>) to remotely access a networked system over SMB,(Citation: Wikipedia Server Message Block) to interact with systems using remote procedure calls (RPCs),(Citation: TechNet RPC) transfer files, and run transferred binaries through remote Execution. Example execution techniques that rely on authenticated sessions over SMB/RPC are [Scheduled Task/Job] (<https://attack.mitre.org/techniques/T1053>), [Service Execution](<https://attack.mitre.org/techniques/T1569/002>), and [Windows Management Instrumentation](<https://attack.mitre.org/techniques/T1047>). Adversaries can also use NTLM hashes to access administrator shares on systems with [Pass the Hash](<https://attack.mitre.org/techniques/T1550/002>) and certain configuration and patch levels.(Citation: Microsoft Admin Shares)

**Name**

IP Addresses

**ID**

T1590.005

**Description**

Adversaries may gather the victim's IP addresses that can be used during targeting. Public IP addresses may be allocated to organizations by block, or a range of sequential addresses. Information about assigned IP addresses may include a variety of details, such

as which IP addresses are in use. IP addresses may also enable an adversary to derive other details about a victim, such as organizational size, physical location(s), Internet service provider, and or where/how their publicly-facing infrastructure is hosted. Adversaries may gather this information in various ways, such as direct collection actions via [Active Scanning](<https://attack.mitre.org/techniques/T1595>) or [Phishing for Information](<https://attack.mitre.org/techniques/T1598>). Information about assigned IP addresses may also be exposed to adversaries via online or other accessible data sets (ex: [Search Open Technical Databases](<https://attack.mitre.org/techniques/T1596>)).(Citation: WHOIS)(Citation: DNS Dumpster)(Citation: Circl Passive DNS) Gathering this information may reveal opportunities for other forms of reconnaissance (ex: [Active Scanning](<https://attack.mitre.org/techniques/T1595>) or [Search Open Websites/Domains](<https://attack.mitre.org/techniques/T1593>)), establishing operational resources (ex: [Acquire Infrastructure](<https://attack.mitre.org/techniques/T1583>) or [Compromise Infrastructure](<https://attack.mitre.org/techniques/T1584>)), and/or initial access (ex: [External Remote Services](<https://attack.mitre.org/techniques/T1133>)).

**Name**

Virtualization/Sandbox Evasion

**ID**

T1497

**Description**

Adversaries may employ various means to detect and avoid virtualization and analysis environments. This may include changing behaviors based on the results of checks for the presence of artifacts indicative of a virtual machine environment (VME) or sandbox. If the adversary detects a VME, they may alter their malware to disengage from the victim or conceal the core functions of the implant. They may also search for VME artifacts before dropping secondary or additional payloads. Adversaries may use the information learned from [Virtualization/Sandbox Evasion](<https://attack.mitre.org/techniques/T1497>) during automated discovery to shape follow-on behaviors.(Citation: Deloitte Environment Awareness) Adversaries may use several methods to accomplish [Virtualization/Sandbox Evasion](<https://attack.mitre.org/techniques/T1497>) such as checking for security monitoring tools (e.g., Sysinternals, Wireshark, etc.) or other system artifacts associated with analysis or virtualization. Adversaries may also check for legitimate user activity to help determine if it is in an analysis environment. Additional methods include use of sleep



timers or loops within malware code to avoid operating within a temporary sandbox.  
(Citation: Unit 42 Pirpi July 2015)

**Name**

Service Stop

**ID**

T1489

**Description**

Adversaries may stop or disable services on a system to render those services unavailable to legitimate users. Stopping critical services or processes can inhibit or stop response to an incident or aid in the adversary's overall objectives to cause damage to the environment.(Citation: Talos Olympic Destroyer 2018)(Citation: Novetta Blockbuster)  
Adversaries may accomplish this by disabling individual services of high importance to an organization, such as `MSExchangeIS`, which will make Exchange content inaccessible (Citation: Novetta Blockbuster). In some cases, adversaries may stop or disable many or all services to render systems unusable.(Citation: Talos Olympic Destroyer 2018) Services or processes may not allow for modification of their data stores while running. Adversaries may stop services or processes in order to conduct [Data Destruction](<https://attack.mitre.org/techniques/T1485>) or [Data Encrypted for Impact](<https://attack.mitre.org/techniques/T1486>) on the data stores of services like Exchange and SQL Server.(Citation: SecureWorks WannaCry Analysis)

**Name**

Inhibit System Recovery

**ID**

T1490

**Description**

Adversaries may delete or remove built-in data and turn off services designed to aid in the recovery of a corrupted system to prevent recovery.(Citation: Talos Olympic Destroyer 2018) (Citation: FireEye WannaCry 2017) This may deny access to available backups and recovery options. Operating systems may contain features that can help fix corrupted systems, such as a backup catalog, volume shadow copies, and automatic repair features. Adversaries may disable or delete system recovery features to augment the effects of [Data Destruction](<https://attack.mitre.org/techniques/T1485>) and [Data Encrypted for Impact] (<https://attack.mitre.org/techniques/T1486>).(Citation: Talos Olympic Destroyer 2018) (Citation: FireEye WannaCry 2017) Furthermore, adversaries may disable recovery notifications, then corrupt backups.(Citation: disable\_notif\_synology\_ransom) A number of native Windows utilities have been used by adversaries to disable or delete system recovery features: \* `vssadmin.exe` can be used to delete all volume shadow copies on a system - `vssadmin.exe delete shadows /all /quiet` \* [Windows Management Instrumentation](<https://attack.mitre.org/techniques/T1047>) can be used to delete volume shadow copies - `wmic shadowcopy delete` \* `wbadmin.exe` can be used to delete the Windows Backup Catalog - `wbadmin.exe delete catalog -quiet` \* `bcdedit.exe` can be used to disable automatic Windows recovery features by modifying boot configuration data - `bcdedit.exe /set {default} bootstatuspolicy ignoreallfailures & bcdedit /set {default} recoveryenabled no` \* `REAgentC.exe` can be used to disable Windows Recovery Environment (WinRE) repair/recovery options of an infected system On network devices, adversaries may leverage [Disk Wipe](<https://attack.mitre.org/techniques/T1561>) to delete backup firmware images and reformat the file system, then [System Shutdown/Reboot] (<https://attack.mitre.org/techniques/T1529>) to reload the device. Together this activity may leave network devices completely inoperable and inhibit recovery operations. Adversaries may also delete “online” backups that are connected to their network – whether via network storage media or through folders that sync to cloud services.(Citation: ZDNet Ransomware Backups 2020) In cloud environments, adversaries may disable versioning and backup policies and delete snapshots, machine images, and prior versions of objects designed to be used in disaster recovery scenarios.(Citation: Dark Reading Code Spaces Cyber Attack)(Citation: Rhino Security Labs AWS S3 Ransomware)

**Name**

PowerShell

**ID**

T1059.001

**Description**

Adversaries may abuse PowerShell commands and scripts for execution. PowerShell is a powerful interactive command-line interface and scripting environment included in the Windows operating system.(Citation: TechNet PowerShell) Adversaries can use PowerShell to perform a number of actions, including discovery of information and execution of code. Examples include the ``Start-Process`` cmdlet which can be used to run an executable and the ``Invoke-Command`` cmdlet which runs a command locally or on a remote computer (though administrator permissions are required to use PowerShell to connect to remote systems). PowerShell may also be used to download and run executables from the Internet, which can be executed from disk or in memory without touching disk. A number of PowerShell-based offensive testing tools are available, including [Empire](https://attack.mitre.org/software/S0363), [PowerSploit](https://attack.mitre.org/software/S0194), [PoshC2](https://attack.mitre.org/software/S0378), and PSAttack.(Citation: Github PSAttack) PowerShell commands/scripts can also be executed without directly invoking the ``powershell.exe`` binary through interfaces to PowerShell's underlying ``System.Management.Automation`` assembly DLL exposed through the .NET framework and Windows Common Language Interface (CLI).(Citation: Sixdub PowerPick Jan 2016)(Citation: SilentBreak Offensive PS Dec 2015)(Citation: Microsoft PSfromCsharp APR 2014)

**Name**

Data Encrypted for Impact

**ID**

T1486

**Description**

Adversaries may encrypt data on target systems or on large numbers of systems in a network to interrupt availability to system and network resources. They can attempt to render stored data inaccessible by encrypting files or data on local and remote drives and withholding access to a decryption key. This may be done in order to extract monetary compensation from a victim in exchange for decryption or a decryption key (ransomware) or to render data permanently inaccessible in cases where the key is not saved or transmitted.(Citation: US-CERT Ransomware 2016)(Citation: FireEye WannaCry 2017)(Citation: US-CERT NotPetya 2017)(Citation: US-CERT SamSam 2018) In the case of ransomware, it is typical that common user files like Office documents, PDFs, images, videos, audio, text, and source code files will be encrypted (and often renamed and/or tagged with specific file markers). Adversaries may need to first employ other behaviors, such as [File and Directory Permissions Modification](https://attack.mitre.org/techniques/T1222) or [System

Shutdown/Reboot](<https://attack.mitre.org/techniques/T1529>), in order to unlock and/or gain access to manipulate these files.(Citation: CarbonBlack Conti July 2020) In some cases, adversaries may encrypt critical system files, disk partitions, and the MBR.(Citation: US-CERT NotPetya 2017) To maximize impact on the target organization, malware designed for encrypting data may have worm-like features to propagate across a network by leveraging other attack techniques like [Valid Accounts](<https://attack.mitre.org/techniques/T1078>), [OS Credential Dumping](<https://attack.mitre.org/techniques/T1003>), and [SMB/Windows Admin Shares](<https://attack.mitre.org/techniques/T1021/002>).(Citation: FireEye WannaCry 2017)(Citation: US-CERT NotPetya 2017) Encryption malware may also leverage [Internal Defacement](<https://attack.mitre.org/techniques/T1491/001>), such as changing victim wallpapers, or otherwise intimidate victims by sending ransom notes or other messages to connected printers (known as "print bombing").(Citation: NHS Digital Egregor Nov 2020) In cloud environments, storage objects within compromised accounts may also be encrypted. (Citation: Rhino S3 Ransomware Part 1)

**Name**

Windows Command Shell

**ID**

T1059.003

**Description**

Adversaries may abuse the Windows command shell for execution. The Windows command shell ([cmd](<https://attack.mitre.org/software/S0106>)) is the primary command prompt on Windows systems. The Windows command prompt can be used to control almost any aspect of a system, with various permission levels required for different subsets of commands. The command prompt can be invoked remotely via [Remote Services](<https://attack.mitre.org/techniques/T1021>) such as [SSH](<https://attack.mitre.org/techniques/T1021/004>).(Citation: SSH in Windows) Batch files (ex: .bat or .cmd) also provide the shell with a list of sequential commands to run, as well as normal scripting operations such as conditionals and loops. Common uses of batch files include long or repetitive tasks, or the need to run the same set of commands on multiple systems. Adversaries may leverage [cmd](<https://attack.mitre.org/software/S0106>) to execute various commands and payloads. Common uses include [cmd](<https://attack.mitre.org/software/S0106>) to execute a single command, or abusing [cmd](<https://attack.mitre.org/software/S0106>) interactively with input and output forwarded over a command and control channel.

**Name**

Native API

**ID**

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. 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. 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 use assembly to directly or indirectly invoke syscalls in an attempt to subvert defensive sensors and detection signatures such as user mode API-hooks.(Citation: Redops Syscalls) Adversaries may also attempt to tamper with sensors and defensive tools associated with API monitoring, such as unhooking monitored functions via [Disable or Modify Tools](<https://attack.mitre.org/techniques/T1562/001>).

**Name**

## Scanning IP Blocks

**ID**

T1595.001

**Description**

Adversaries may scan victim IP blocks to gather information that can be used during targeting. Public IP addresses may be allocated to organizations by block, or a range of sequential addresses. Adversaries may scan IP blocks in order to [Gather Victim Network Information](https://attack.mitre.org/techniques/T1590), such as which IP addresses are actively in use as well as more detailed information about hosts assigned these addresses. Scans may range from simple pings (ICMP requests and responses) to more nuanced scans that may reveal host software/versions via server banners or other network artifacts. (Citation: Botnet Scan) Information from these scans may reveal opportunities for other forms of reconnaissance (ex: [Search Open Websites/Domains](https://attack.mitre.org/techniques/T1593) or [Search Open Technical Databases](https://attack.mitre.org/techniques/T1596)), establishing operational resources (ex: [Develop Capabilities](https://attack.mitre.org/techniques/T1587) or [Obtain Capabilities](https://attack.mitre.org/techniques/T1588)), and/or initial access (ex: [External Remote Services](https://attack.mitre.org/techniques/T1133)).

**Name**

Unix Shell

**ID**

T1059.004

**Description**

Adversaries may abuse Unix shell commands and scripts for execution. Unix shells are the primary command prompt on Linux and macOS systems, though many variations of the Unix shell exist (e.g. sh, bash, zsh, etc.) depending on the specific OS or distribution. (Citation: DieNet Bash)(Citation: Apple ZShell) Unix shells can control every aspect of a system, with certain commands requiring elevated privileges. Unix shells also support

scripts that enable sequential execution of commands as well as other typical programming operations such as conditionals and loops. Common uses of shell scripts include long or repetitive tasks, or the need to run the same set of commands on multiple systems. Adversaries may abuse Unix shells to execute various commands or payloads. Interactive shells may be accessed through command and control channels or during lateral movement such as with [SSH](https://attack.mitre.org/techniques/T1021/004). Adversaries may also leverage shell scripts to deliver and execute multiple commands on victims or as part of payloads used for persistence.

**Name**

System Shutdown/Reboot

**ID**

T1529

**Description**

Adversaries may shutdown/reboot systems to interrupt access to, or aid in the destruction of, those systems. Operating systems may contain commands to initiate a shutdown/reboot of a machine or network device. In some cases, these commands may also be used to initiate a shutdown/reboot of a remote computer or network device via [Network Device CLI](https://attack.mitre.org/techniques/T1059/008) (e.g. `reload`).(Citation: Microsoft Shutdown Oct 2017)(Citation: alert\_TA18\_106A) Shutting down or rebooting systems may disrupt access to computer resources for legitimate users while also impeding incident response/recovery. Adversaries may attempt to shutdown/reboot a system after impacting it in other ways, such as [Disk Structure Wipe](https://attack.mitre.org/techniques/T1561/002) or [Inhibit System Recovery](https://attack.mitre.org/techniques/T1490), to hasten the intended effects on system availability.(Citation: Talos Nyetya June 2017) (Citation: Talos Olympic Destroyer 2018)

**Name**

Registry Run Keys / Startup Folder

**ID**

T1547.001

## Description

Adversaries may achieve persistence by adding a program to a startup folder or referencing it with a Registry run key. Adding an entry to the "run keys" in the Registry or startup folder will cause the program referenced to be executed when a user logs in. (Citation: Microsoft Run Key) These programs will be executed under the context of the user and will have the account's associated permissions level. The following run keys are created by default on Windows systems: \*

`HKEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\Run` \*

`HKEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\RunOnce` \*

`HKEY\_LOCAL\_MACHINE\Software\Microsoft\Windows\CurrentVersion\Run` \*

`HKEY\_LOCAL\_MACHINE\Software\Microsoft\Windows\CurrentVersion\RunOnce` Run keys may exist under multiple hives.(Citation: Microsoft Wow6432Node 2018)(Citation: Malwarebytes Wow6432Node 2016) The

`HKEY\_LOCAL\_MACHINE\Software\Microsoft\Windows\CurrentVersion\RunOnceEx` is also available but is not created by default on Windows Vista and newer. Registry run key entries can reference programs directly or list them as a dependency.(Citation: Microsoft Run Key) For example, it is possible to load a DLL at logon using a "Depend" key with RunOnceEx: `reg add

HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\RunOnceEx\0001\Depend /v 1 /d "C:\temp\evil[.].dll" (Citation: Oddvar Moe RunOnceEx Mar 2018) Placing a program within a startup folder will also cause that program to execute when a user logs in. There is a startup folder location for individual user accounts as well as a system-wide startup folder that will be checked regardless of which user account logs in. The startup folder path for the current user is `C:\Users\[Username]\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup`. The startup folder path for all users is `C:\ProgramData\Microsoft\Windows\Start Menu\Programs\StartUp`. The following Registry keys can be used to set startup folder items for persistence: \*

`HKEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\User Shell Folders` \*

`HKEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Shell Folders` \*

`HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\Shell Folders` \*

`HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\User Shell Folders` The following Registry keys can control automatic startup of services during boot: \*

`HKEY\_LOCAL\_MACHINE\Software\Microsoft\Windows\CurrentVersion\RunServicesOnce` \*

`HKEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\RunServicesOnce` \*

`HKEY\_LOCAL\_MACHINE\Software\Microsoft\Windows\CurrentVersion\RunServices` \*



HKKEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\RunServices Using policy settings to specify startup programs creates corresponding values in either of two Registry keys: \*

HKKEY\_LOCAL\_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer\Run \*

HKKEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer\Run Programs listed in the load value of the registry key

HKKEY\_CURRENT\_USER\Software\Microsoft\Windows NT\CurrentVersion\Windows run automatically for the currently logged-on user. By default, the multistring BootExecute value of the registry key

HKKEY\_LOCAL\_MACHINE\System\CurrentControlSet\Control\Session Manager is set to autocheck autochk \*. This value causes Windows, at startup, to check the file-system integrity of the hard disks if the system has been shut down abnormally. Adversaries can add other programs or processes to this registry value which will automatically launch at boot. Adversaries can use these configuration locations to execute malware, such as remote access tools, to maintain persistence through system reboots. Adversaries may also use [Masquerading](<https://attack.mitre.org/techniques/T1036>) to make the Registry entries look as if they are associated with legitimate programs.

# Indicator

**Name**

df430ab9f5084a3e62a6c97c6c6279f2461618f038832305057c51b441c648d9

**Pattern Type**

stix

**Pattern**

[file:hashes!'SHA-256' =  
'df430ab9f5084a3e62a6c97c6c6279f2461618f038832305057c51b441c648d9']

**Name**

0162641163a30a2edff787eeecc733ab1de46f03e213743dc768d39eb3075985

**Pattern Type**

stix

**Pattern**

[file:hashes!'SHA-256' =  
'0162641163a30a2edff787eeecc733ab1de46f03e213743dc768d39eb3075985']

**Name**

4e153342189a55ffed34a91f2a3f4440af1acbf7dc58135a165a06b4e657556a

**Description**

is\_elf SHA256 of 84c8921f18a6d7861e842e4edb9c0c96142b5f75

**Pattern Type**

stix

**Pattern**

[file:hashes:'SHA-256' =  
'4e153342189a55ffed34a91f2a3f4440af1acbf7dc58135a165a06b4e657556a']

**Name**

d6c1d2e77ce21d5a026e7abf99c9fffe55d87b282f460dc737da231211a12a0d

**Pattern Type**

stix

**Pattern**

[file:hashes:'SHA-256' =  
'd6c1d2e77ce21d5a026e7abf99c9fffe55d87b282f460dc737da231211a12a0d']

**Name**

c66590a2ffbe53667be147c4e74e626764aff9eb31017dd8b8f161279fd0f4f6

**Pattern Type**

stix

**Pattern**

```
[file:hashes:'SHA-256' =  
'c66590a2ffbe53667be147c4e74e626764aff9eb31017dd8b8f161279fd0f4f6']
```

# Intrusion-Set

## Name

RobinHood

# Malware

**Name**

Kuiper

# StixFile

## Value

4e153342189a55ffed34a91f2a3f4440af1acbf7dc58135a165a06b4e657556a

0162641163a30a2edff787eeecc733ab1de46f03e213743dc768d39eb3075985

c66590a2ffbe53667be147c4e74e626764aff9eb31017dd8b8f161279fd0f4f6

df430ab9f5084a3e62a6c97c6c6279f2461618f038832305057c51b441c648d9

d6c1d2e77ce21d5a026e7abf99c9fffe55d87b282f460dc737da231211a12a0d

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- 
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