



NETMANAGEIT

Intelligence Report

MOVEit Transfer Exploited to Drop File-Stealing SQL Shell



[T1059] Command and Scripting...



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Overview

Description

SentinelOne has observed in-the-wild (ITW) exploitation of CVE-2023-34362, a vulnerability in the MOVEit file transfer server application. The attack delivers a Microsoft IIS .aspx payload that enables limited interaction between the affected web server and connected Azure blob storage. On June 5, the Cl0p ransomware group claimed responsibility for these attacks, though SentinelOne notes the targeting of a file transfer application vulnerability resembles other exploitation conducted by financially motivated actors throughout early 2023.

Confidence

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

15 / 100

Attack-Pattern

Name
Exploitation for Privilege Escalation
ID
T1068
Description
<p>Adversaries may exploit software vulnerabilities in an attempt to elevate privileges. Exploitation of a software vulnerability occurs when an adversary takes advantage of a programming error in a program, service, or within the operating system software or kernel itself to execute adversary-controlled code. Security constructs such as permission levels will often hinder access to information and use of certain techniques, so adversaries will likely need to perform privilege escalation to include use of software exploitation to circumvent those restrictions. When initially gaining access to a system, an adversary may be operating within a lower privileged process which will prevent them from accessing certain resources on the system. Vulnerabilities may exist, usually in operating system components and software commonly running at higher permissions, that can be exploited to gain higher levels of access on the system. This could enable someone to move from unprivileged or user level permissions to SYSTEM or root permissions depending on the component that is vulnerable. This could also enable an adversary to move from a virtualized environment, such as within a virtual machine or container, onto the underlying host. This may be a necessary step for an adversary compromising an endpoint system that has been properly configured and limits other privilege escalation methods.</p> <p>Adversaries may bring a signed vulnerable driver onto a compromised machine so that they can exploit the vulnerability to execute code in kernel mode. This process is sometimes referred to as Bring Your Own Vulnerable Driver (BYOVD). (Citation: ESET InvisiMole June 2020) (Citation: Unit42 AcidBox June 2020) Adversaries may include the vulnerable driver with files delivered during Initial Access or download it to a</p>

compromised system via [Ingress Tool Transfer](<https://attack.mitre.org/techniques/T1105>) or [Lateral Tool Transfer](<https://attack.mitre.org/techniques/T1570>).

Name

Data from Cloud Storage

ID

T1530

Description

Adversaries may access data from improperly secured cloud storage. Many cloud service providers offer solutions for online data object storage such as Amazon S3, Azure Storage, and Google Cloud Storage. These solutions differ from other storage solutions (such as SQL or Elasticsearch) in that there is no overarching application. Data from these solutions can be retrieved directly using the cloud provider's APIs. In other cases, SaaS application providers such as Slack, Confluence, and Salesforce also provide cloud storage solutions as a peripheral use case of their platform. These cloud objects can be extracted directly from their associated application.(Citation: EA Hacked via Slack - June 2021)(Citation: SecureWorld - How Secure Is Your Slack Channel - Dec 2021)(Citation: HackerNews - 3 SaaS App Cyber Attacks - April 2022)(Citation: Dark Clouds_UseNix_Mulazzani_08_2011) Adversaries may collect sensitive data from these cloud storage solutions. Providers typically offer security guides to help end users configure systems, though misconfigurations are a common problem.(Citation: Amazon S3 Security, 2019)(Citation: Microsoft Azure Storage Security, 2019)(Citation: Google Cloud Storage Best Practices, 2019) There have been numerous incidents where cloud storage has been improperly secured, typically by unintentionally allowing public access to unauthenticated users, overly-broad access by all users, or even access for any anonymous person outside the control of the Identity Access Management system without even needing basic user permissions. This open access may expose various types of sensitive data, such as credit cards, personally identifiable information, or medical records.(Citation: Trend Micro S3 Exposed PII, 2017) (Citation: Wired Magecart S3 Buckets, 2019)(Citation: HIPAA Journal S3 Breach, 2017) (Citation: Rclone-mega-extortion_05_2021) Adversaries may also obtain then abuse leaked credentials from source repositories, logs, or other means as a way to gain access to cloud storage objects.

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)

External References

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- <https://otx.alienvault.com/pulse/6480e5d5eeeaca1ff8abbcff>
 - <https://www.sentinelone.com/blog/moveit-transfer-exploited-to-drop-file-stealing-sql-shell/>
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