

Introducing HybridPetya: Petya/NotPetya copycat with UEFI Secure Boot bypass

ESET Research

UEFI copycat of Petya/NotPetya exploiting CVE-2024-7344 discovered on VirusTotal



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ESET Research has discovered HybridPetya, on the VirusTotal sample sharing platform. It is a copycat of the infamous Petya/NotPetya malware, adding the capability of compromising UEFI-based systems and weaponizing [CVE-2024-7344](#) to bypass UEFI Secure Boot on outdated systems.

Key points of this blogpost:

- New ransomware samples, which we named HybridPetya, resembling the infamous Petya/NotPetya malware, were uploaded to VirusTotal in February 2025.
- HybridPetya encrypts the Master File Table, which contains important metadata about all the files on NTFS-formatted partitions.
- Unlike the original Petya/NotPetya, HybridPetya can compromise modern UEFI-based systems by installing a malicious EFI application onto the EFI System Partition.
- One of the analyzed HybridPetya variants exploits CVE-2024-7344 to bypass UEFI Secure Boot on outdated systems, leveraging a specially crafted cloak.dat file.
- ESET telemetry shows no signs of HybridPetya being used in the wild yet; this malware does not exhibit the aggressive network propagation seen in the original NotPetya.

Overview

Late in July 2025, we encountered suspicious ransomware samples, uploaded to VirusTotal from Poland, under various filenames, including notpetyanew.exe and other similar ones, suggesting a connection with the infamously destructive malware that [struck Ukraine and many other countries back in 2017](#). The NotPetya attack is believed to be the most destructive cyberattack in history, [with more than \\$10 billion in total damages](#). Despite NotPetya's similarity to the Petya ransomware, first [discovered in March 2016](#), NotPetya's purpose was pure destruction, as encryption key recovery from the victim's personal installation key was not possible. Because of the shared characteristics of the currently discovered samples with both Petya and NotPetya, we named the new discovery HybridPetya.

While ESET telemetry shows no active use of HybridPetya in the wild, one important detail in these samples still caught our attention – unlike the original NotPetya (and Petya ransomware as well), HybridPetya is also capable of compromising modern UEFI-based systems by installing a malicious EFI application to the EFI System Partition. The deployed UEFI application is then responsible for encryption of the [NTFS-related Master File Table](#) (MFT) file – an important metadata file containing information about all the files on the NTFS-formatted partition.

After a bit more digging, we discovered something even more interesting on VirusTotal: [an archive](#) containing the whole EFI System Partition contents, including a very similar HybridPetya UEFI application, but this time bundled in a specially formatted cloak.dat file, vulnerable to CVE-2024-7344 – the [UEFI Secure Boot bypass vulnerability](#) – that our team disclosed in early 2025.

Interestingly, despite the filenames on VirusTotal and the format of the ransom note in the current samples suggesting that they might be related to NotPetya, the algorithm used for the generation of the victim's personal installation key, unlike in the original NotPetya, allows the malware operator to reconstruct the decryption key from the victim's personal installation keys. Thus, HybridPetya can serve as regular ransomware (more like Petya), rather than being solely destructive like NotPetya.

Interestingly, on September 9th, 2025, [@hasherezade](#) published a [post](#) about the existence of a UEFI Petya PoC, with a video demonstrating execution of the malware with UEFI Secure Boot enabled. Even though the sample from the video is obviously different from the one presented in this blogpost (showing the typical

Petya ASCII art skull, which is not present in the samples we discovered), we suspect that there might be some relationship between the two cases, and that HybridPetya might also be just a proof of concept developed by a security researcher or an unknown threat actor.

In this blogpost, we focus on the technical analysis of HybridPetya.

HybridPetya technical analysis

In this section, we provide a technical analysis of HybridPetya's components: the bootkit and its installer. We also separately dissect a version of HybridPetya that is capable of bypassing UEFI Secure Boot by exploiting CVE-2024-7344. Note that HybridPetya supports both legacy and UEFI based systems – in this blogpost, we'll focus on the UEFI part.

Interestingly, the code responsible for generating the victims' personal installation keys seems to be inspired by the [RedPetyaOpenSSL](#) PoC. We are aware of at least one other UEFI-compatible PoC rewrite of NotPetya, dubbed [NotPetyaAgain](#), which is written in [Rust](#); however, that code is unrelated to HybridPetya.

UEFI bootkit

We obtained two distinct versions of the UEFI bootkit component, both very similar but with certain differences. When executed, the bootkit first loads its configuration from the `\EFI\Microsoft\Boot\config` file, and checks the encryption flag indicating the current encryption status – same as the original Petya/NotPetya samples, the encryption flag can have one of the following values:

- 0 - ready for encryption,
- 1 - already encrypted, or
- 2 - ransom paid, disk decrypted.

It continues with execution based on the encryption status flag, as shown in Figure 1.

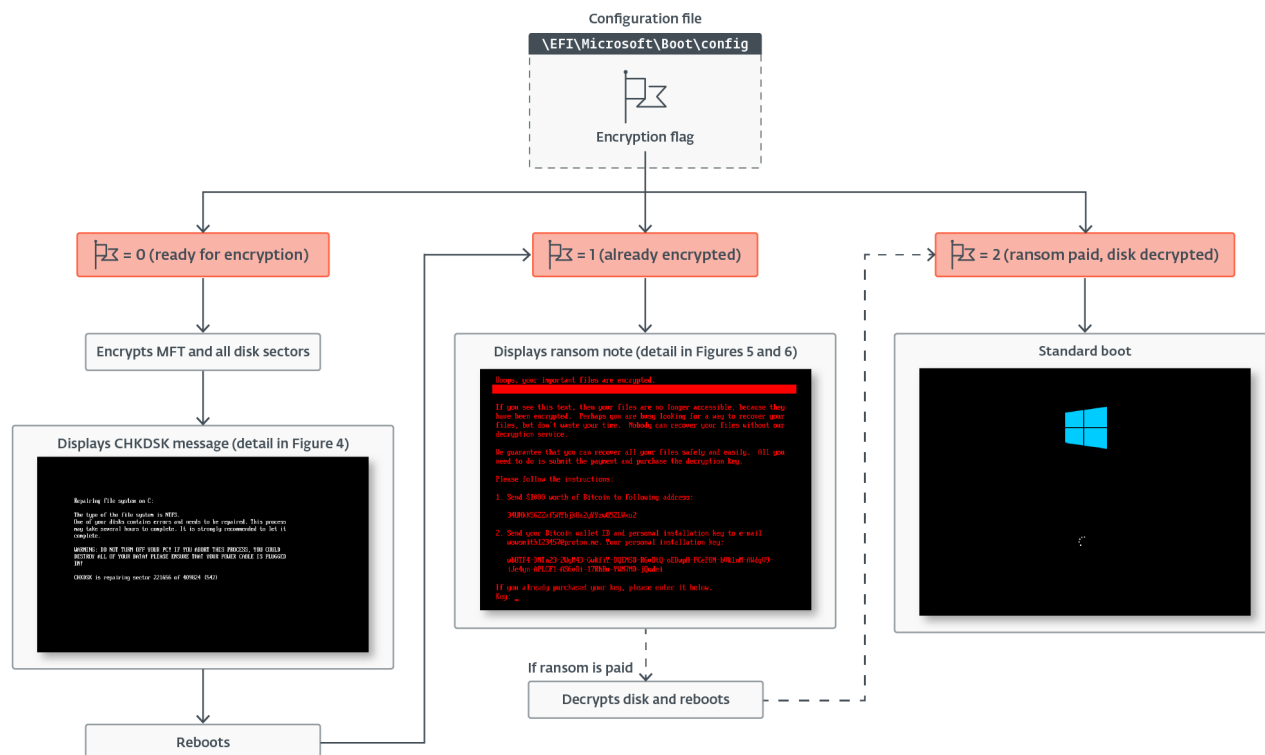


Figure 1. Overview of HybridPetya's execution logic

Disk encryption

If the value of the encryption flag is 0, the bootkit extracts the 32-byte-long [Salsa20](#) encryption key and 8-byte-long nonce from the configuration data, and subsequently rewrites the configuration file, now with the encryption key zeroed and the encryption flag set to 1. It continues with encryption of the `\EFI\Microsoft\Boot\verify` file with the Salsa20 encryption algorithm using the key and nonce from the configuration. Then, before proceeding to its main functionality – disk encryption – it creates the file `\EFI\Microsoft\Boot\counter` on the EFI System Partition; the purpose of this file is explained later.

The disk encryption process starts with identification of all NTFS-formatted partitions. As shown in Figure 2, the sample does so by getting the list of handles for connected storage devices, identifying the individual partitions by checking that `EFI_BLOCK_IO_MEDIA->LogicalPartition` is `TRUE`, and finally verifying whether the partition is NTFS formatted by comparing the first four bytes of the data present in the first partition's sector with the NTFS signature `NTFS`.

```

gStatus = gBS->LocateHandleBuffer(ByProtocol, &EFI_BLOCK_IO_PROTOCOL_GUID, 0, &noBlockIoHandles, &gBuffDevices);
devIndex = 0;
gIndex = 0;
if ( !noBlockIoHandles )
    return (SystemTable->RuntimeServices->ResetSystem)(0, 0, 0, 0);
do
{
    gStatus = gBS->HandleProtocol(gBuffDevices[devIndex], &EFI_BLOCK_IO_PROTOCOL_GUID, &currDev);
    Media_2 = currDev->Media;
    if ( !Media_2->LogicalPartition )
        goto skip_device;
    (currDev->ReadBlocks)(currDev, Media_2->MediaId, 0, 512, &gNtfsVolume);
    gKeyLenght = 4;
    gSigDword = *gNtfsVolume.file_system_signature;
    signature_length = 4;
    v16 = &gSigDword;
    NTFS_Key: __1 = aNtfsKey; // "NTFS Key: "
    while ( 1 )
    {
        --signature_length;
        if ( *v16 != *NTFS_Key: __1 )
            break;
        v16 = (v16 + 1);
        ++NTFS_Key: __1;
        if ( !signature_length )
        {
            result = 0;
            goto check_result;
        }
    }
    result = *v16 - *NTFS_Key: __1;
check_result:
    if ( result )
        goto skip_device;
}

```

Figure 2. Hex-Rays decompiled code for NTFS partition identification

Once the NTFS partitions have been identified, the bootkit continues with encryption of the [Master File Table](#) (MFT) file, the essential metadata file containing information about other files and the location of their data on the NTFS-formatted partition. As shown in Figure 3, during the encryption, the bootkit rewrites the contents of the \EFI\Microsoft\Boot\counter file with the number of already encrypted disk clusters, and updates the fake CHKDSK message displayed on the victim's screen (shown in Figure 4), with the information about the current encryption status (though, based on the message, the victim may believe that the disk is being checked for errors, not being encrypted).

```

do
{
    (currDev->ReadBlocks)(
        currDev,
        currDev->Media->MediaId,
        _curr_datarun_start_sector,
        sectors_per_cluster_block_1 << 9,
        gpClusterDataBuffer);
    gVerifyData_2 = gpClusterDataBuffer;
    salsa20(&gSalsaKey, &gSalsaNonce, gpClusterDataBuffer, g_sectors_per_cluster << 9);
    (currDev->WriteBlocks)(
        currDev,
        currDev->Media->MediaId,
        curr_datarun_start_sector,
        g_sectors_per_cluster << 9,
        gVerifyData_2);
    ++gCounterTotal;
    (gVolume->Open)(
        gVolume,
        &ghCounter,
        aEfiMicrosoftBo_1,                // "\\EFI\\Microsoft\\Boot\\counter"
        3,
        0);
    (ghCounter->Write)(ghCounter, &gCounterDataSize, &gCounterTotal);
    (ghCounter->Close)(ghCounter);
    printconsole(
        aChkdskIsRepair,                    // "\\r CHKDSK is repairing sector %ld of %ld (%d%%)"
        processed_sectors,
        total_sectors_current_data_run,
        100 * processed_sectors / total_sectors_current_data_run);
    sectors_per_cluster_block_1 = g_sectors_per_cluster;
    _curr_datarun_start_sector = g_sectors_per_cluster + curr_datarun_start_sector;
    processed_sectors += g_sectors_per_cluster;
    curr_datarun_start_sector = _curr_datarun_start_sector;
}
while ( processed_sectors <= total_sectors_current_data_run );

```

Figure 3. Hex-Rays decompiled code: MFT encryption

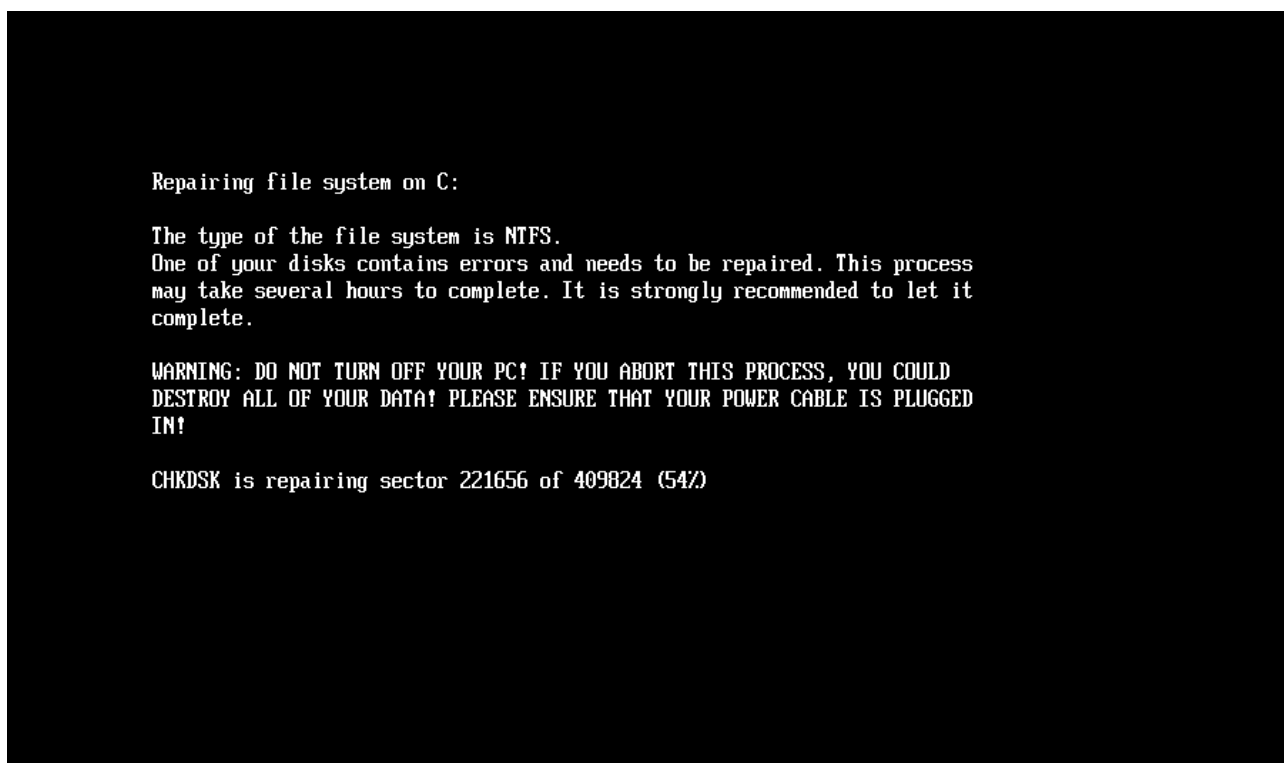


Figure 4. Fake CHKDSK message shown by HybridPetya during disk encryption (identical with NotPetya and Petya)

When done with the encryption, the bootkit reboots the machine.

Disk decryption

If the bootkit detects that the disk is already encrypted, meaning that the value of the encryption flag from the configuration file is 1, it shows the ransom note shown in Figure 5 or Figure 6 (depending on the bootkit version), and asks the victim to enter the decryption key. Note that while the HybridPetya ransom note has the same format as that of the original NotPetya (shown in Figure 7), the ransom amount, bitcoin address, and the operator's email address are different. Also, the version deployed with the UEFI Secure Boot bypass uses a different contact email address (wowsmith999999@proton[.]me) than the version deployed by the obtained installers (wowsmith1234567@proton[.]me). It's worth mentioning that the bitcoin address is the same in both versions.

Oops, your important files are encrypted.

If you see this text, then your files are no longer accessible, because they have been encrypted. Perhaps you are busy looking for a way to recover your files, but don't waste your time. Nobody can recover your files without our decryption service.

We guarantee that you can recover all your files safely and easily. All you need to do is submit the payment and purchase the decryption key.

Please follow the instructions:

1. Send \$1000 worth of Bitcoin to following address:

34UNkKSG2Zvf5AYbjkUa2yYYzw89ZLWxu2

2. Send your Bitcoin wallet ID and personal installation key to e-mail wowsmith123457@proton.me. Your personal installation key:

wb8TF4-DNTn23-2WyM43-GwkfiY-DQEMSB-R6vBtQ-oEDwpH-FCeP8N-bVk1nM-AWdgU9-iJe4yn-APLCF1-AS6vDi-17RhBu-YWM7MD-jQwdei

If you already purchased your key, please enter it below.

Key: _

Figure 5. Ransom note from the bootkit installed by the installers without the UEFI Secure Boot bypass

Ooops, your important files are encrypted.

If you see this text, then your files are no longer accessible, because they have been encrypted. Perhaps you are busy looking for a way to recover your files, but don't waste your time. Nobody can recover your files without our decryption service.

We guarantee that you can recover all your files safely and easily. All you need to do is submit the payment and purchase the decryption key.

Please follow the instructions:

1. Send \$1000 worth of Bitcoin to following address:

34UNkKSG2Zvf5AYbjkUa2yYYzw89ZLWxu2

2. Send your Bitcoin wallet ID and personal installation key to e-mail wowsmith999999@proton.me. Your personal installation key:

uJg6DU-tWwdYp-exZD33-N5PBvZ-W76GqJ-tPdAoN-Ax2LXU-npmvxw-eSMpAW-zYsmCk-7Unut8-ykxKyp-mtoLCm-HvtzkP-oFGMCH-tCQSWk

If you already purchased your key, please enter it below.

Key: _

Figure 6. Ransom note displayed by the bootkit version deployed by exploiting CVE-2024-7344

Ooops, your important files are encrypted.

If you see this text, then your files are no longer accessible, because they have been encrypted. Perhaps you are busy looking for a way to recover your files, but don't waste your time. Nobody can recover your files without our decryption service.

We guarantee that you can recover all your files safely and easily. All you need to do is submit the payment and purchase the decryption key.

Please follow the instructions:

1. Send \$300 worth of Bitcoin to following address:

1Mz7153HMuxXTuR2R1t78mGSdzaAtNbBWx

2. Send your Bitcoin wallet ID and personal installation key to e-mail wowsmith123456@posteo.net. Your personal installation key:

3Qi6rc-CqbBfD-zMM7gC-upUPgZ-SAJnyu-R9ZZsg-WPKM7j-iP9BAM-XSPBPz-G4hN4n

If you already purchased your key, please enter it below.

Key:

Figure 7. Original NotPetya ransom note

When a key with the correct length – 32 characters – is entered and confirmed by the victim pressing Enter, the bootkit proceeds to verification of the key. As depicted in Figure 8, key validity is established by attempting to decrypt the aforementioned \EFI\Microsoft\Boot\verify file with the supplied key, and checking whether the plaintext contains only bytes with value 0x07. Note that the bootkit variant deployed via the UEFI Secure Boot bypass hashes the supplied key with an algorithm probably based on [SPONGENT-256/256/16](#), using that hash value as the decryption key, while the bootkit deployed by the obtained installers takes the user's input as is.

```
(gVolume->Open)(
    gVolume,
    &ghVerify,
    aEfiMicrosoftBo_0,                // "\\EFI\\Microsoft\\Boot\\verify"
    3,
    0);
(ghVerify->Read)(ghVerify, &gVerifySize, gVerifyFileData_);
(ghVerify->Close)(ghVerify);
salsa20(p_gpInputData_key, &gNonce, gVerifyFileData_, 0x200u);
for ( k = 512; k > 0; gTmpVerifyExpectedData[k] = 7 )
    --k;
n512 = 512;
gVerifyFileData = gVerifyFileData_;
lpTmpVerifyExpectedData = gTmpVerifyExpectedData;
do
{
    --n512;
    if ( *gVerifyFileData != *lpTmpVerifyExpectedData )
    {
        NotVerified = *gVerifyFileData - *lpTmpVerifyExpectedData;
        goto LABEL_95;
    }
    ++gVerifyFileData;
    ++lpTmpVerifyExpectedData;
}
while ( n512 );
NotVerified = 0;

if ( !NotVerified )
{
    // correct key entered
}
```

Figure 8. Hex-Rays decompiled code: disk-decryption key validity verification

If the correct key is entered, the bootkit updates the configuration file with the encryption flag value set to 2 and also fills in the decryption key. Then it reads the contents of the \EFI\Microsoft\Boot\counter file (containing the number of disk clusters previously encrypted) and proceeds with disk decryption. For the decryption, the bootkit proceeds with a very similar process to that of NTFS partition discovery and MFT decryption (the Salsa20 encryption and decryption process is the same) as described in the [Disk encryption](#) section. The decryption stops when the number of decrypted clusters is equal to the value from the counter

file. During the process of MFT decryption, the bootkit shows the current decryption process status, depicted in Figure 9, on the victim's screen.

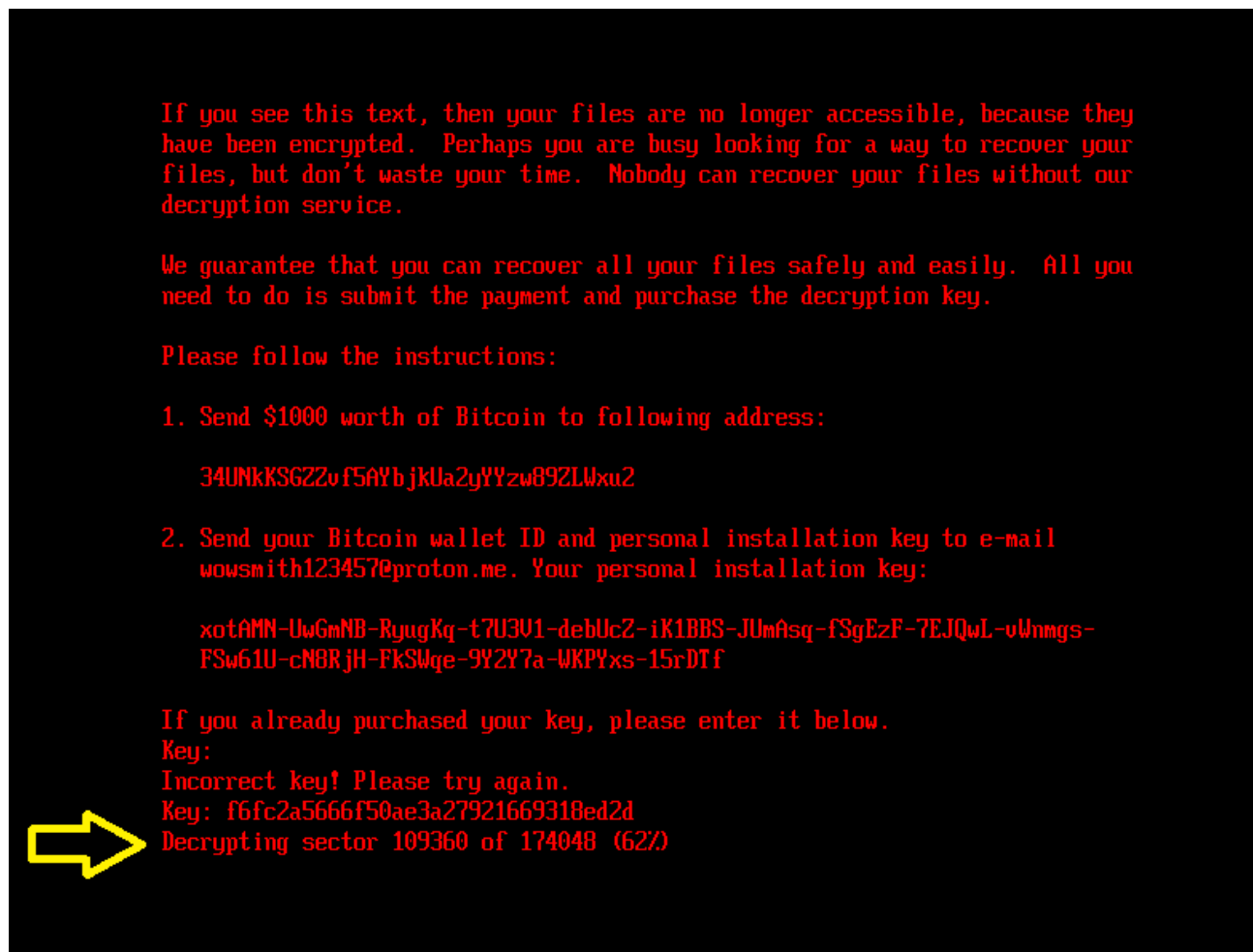


Figure 9. Decryption status shown to a victim after entering a valid key

Next, the bootkit proceeds with recovering the legitimate bootloaders \EFI\Microsoft\Boot\bootmgfw.efi and \EFI\Boot\bootx64.efi from the backup file previously created during the installation process: \EFI\Microsoft\Boot\bootmgfw.efi.old.

Finally, after the decryption process is finished and the legitimate bootloaders recovered, the bootkit prompts the victim to reboot the device (Figure 10). If everything went well, the device should start the operating system successfully after the reboot.



Please reboot your computer!

Figure 10. Prompt to reboot victim device after successful disk decryption

Deploying the UEFI bootkit component

In this section, we focus on the bootkit-installation functionality of the discovered HybridPetya installers. Note that the installers we were able to obtain do not take UEFI Secure Boot into account. However, as explained in the [CVE-2024-7344 exploitation](#) section, there is likely a variant with such an improvement.

To decide whether the system is UEFI based, the installer retrieves the disk information (IOCTL_DISK_GET_DRIVE_LAYOUT_EX), checks whether the GPT partitioning scheme is used (PARTITION_STYLE_GPT), and walks through the partitions until it discovers the one with PARTITION_INFORMATION_GPT.PartitionType set to [PARTITION_SYSTEM_GUID](#), which is the identifier of the EFI System Partition. After discovering the EFI System Partition, it continues:

- Removing the fallback UEFI bootloader, stored in \EFI\Boot\Bootx64.efi.
- Dropping a disk-encryption-related configuration along with the encryption flag, to the \EFI\Microsoft\Boot\config file on the EFI System Partition; the encryption configuration contains the Salsa20 encryption key, 8-byte nonce, and victim's personal installation key ([base58-encoded](#) data).
- Dropping an encryption-verification array consisting of 0x200 bytes with value 0x07 to the \EFI\Microsoft\Boot\verify file on the EFI System Partition; this array is later encrypted by the bootkit component using the same Salsa20 key as used for disk encryption. The purpose of this array is to verify whether the victim entered a valid decryption key (by decrypting the array with the entered key, and verifying that the plaintext contains an array of bytes with value 0x07).
- Creating a backup of \EFI\Microsoft\Boot\bootmgfw.efi, the default bootloader for Windows-based systems, by copying it into \EFI\Microsoft\Boot\bootmgfw.efi.old.

When done, it triggers a system crash (Blue Screen Of Death, BSOD) by using the same method that Petya did – invoking the NtRaiseHardError API with the ErrorStatus parameter set to 0xC0000350

(STATUS_HOST_DOWN) and the ResponseOption set to value 6 (OptionShutdownSystem), resulting in a system shutdown.

The abovementioned changes ensure that on systems with Windows set as the primary OS, the bootkit binary will be executed once the device is powered on again.

CVE-2024-7344 exploitation

In this section, we examine [an archive](#) that we discovered on VirusTotal that contains a variant of the UEFI bootkit described in the [UEFI bootkit](#) section, but this time bundled in a specially formatted cloak.dat file related to CVE-2024-7344 – the [UEFI Secure Boot bypass vulnerability](#) that our team publicly disclosed in early 2025.

A list of the files present in the archive along with their contents suggests that this EFI System Partition was copied from a system already encrypted by this Petya/NotPetya copycat variant. Note that we haven't obtained the installer responsible for deploying this version with the UEFI Secure Boot bypass, but based on the archive's contents, which are shown in Figure 11, it would be pretty similar to the process described in the previous section. Specifically, the archive contains:

- \EFI\Microsoft\Boot\counter, a file already containing a non-zero value representing the number of disk clusters previously encrypted by the bootkit,
- \EFI\Microsoft\Boot\config, a file with the encryption flag value set to 1, meaning that the disk should be already encrypted and the bootkit should proceed with displaying the ransom note,
- \EFI\Microsoft\Boot\bootmgfw.efi.old, a file with the first 0x400 bytes XORed with the value 0x07,
- \EFI\Microsoft\Boot\bootmgfw.efi, a legitimate, but vulnerable (CVE-2024-7344) UEFI application signed by Microsoft (revoked in Microsoft's dbx [since January 2025](#)); in this section we'll refer to this file with its original name reloader.efi, and
- \EFI\Microsoft\Boot\cloak.dat, a specially crafted file loadable through reloader.efi and containing the XORed bootkit binary.

Name	Type	Size
 bootmgr.efi	EFI File	1 588 KB
 memtest.efi	EFI File	1 466 KB
 bootmgfw.efi.old	OLD File	1 323 KB
 bootmgfw.efi	EFI File	160 KB
 BCD	File	96 KB
 cloak.dat	DAT File	23 KB
 boot.stl	STL File	5 KB
 config	File	1 KB
 verify	File	1 KB
 counter	File	1 KB

Figure 11. Archive containing the CVE-2024-7344-exploiting version of the bootkit

As described in our [report](#) from January 2025, the exploit mechanism is quite simple. The cloak.dat file contains specially formatted data that contains a UEFI application. When the reloader.efi binary (deployed as bootmgfw.efi) is executed during boot, it searches for the presence of the cloak.dat file on the EFI System Partition, and loads the embedded UEFI application from the file in a very unsafe way, completely ignoring any integrity checks, thus bypassing UEFI Secure Boot.

Note that our blogpost from January 2025 didn't explain the exploitation in fine detail; thus, the malware author probably reconstructed the correct cloak.dat file format based on reverse engineering the vulnerable application on their own.

The vulnerability cannot be exploited on systems with Microsoft's [January 2025](#) dbx update applied. For guidance on how to protect and verify whether your system is exposed to this vulnerability, check the [Protection and Detection](#) section of our January 2025 blogpost.

Conclusion

HybridPetya is now at least the fourth publicly known example of a real or proof-of-concept UEFI bootkit with UEFI Secure Boot bypass functionality, joining [BlackLotus](#) (exploiting CVE-2022-21894), [BootKitty](#)

(exploiting [LogoFail](#)), and the [Hyper-V Backdoor PoC](#) (exploiting [CVE-2020-26200](#)). This shows that Secure Boot bypasses are not just possible – they’re becoming more common and attractive to both researchers and attackers.

Although HybridPetya is not actively spreading, its technical capabilities – especially MFT encryption, UEFI system compatibility, and Secure Boot bypass – make it noteworthy for future threat monitoring.

For any inquiries about our research published on WeLiveSecurity, please contact us at threatintel@eset.com.

ESET Research offers private APT intelligence reports and data feeds. For any inquiries about this service, visit the [ESET Threat Intelligence](#) page.

IoCs

A comprehensive list of indicators of compromise (IoCs) and samples can be found in [our GitHub repository](#).

Files

SHA-1	Filename	Detection	Description
BD35908D5A5E9F7E41A61B7AB598AB9A88DB723D	bootmgfw.efi	EFI/Diskcoder.A	HybridPetya - UEFI bootkit component.
9DF922D00171AA3C31B75446D700EE567F8D787B	N/A	EFI/Diskcoder.A	HybridPetya - UEFI bootkit component, extracted from cloak.dat.
9B0EE05FFFDA0B16CF9DAAC587CB92BB06D3981B	N/A	Win32/Injector.AJBK	HybridPetya installer.
CDC8CB3D211589202B49A48618B0D90C4D8F86FD	core.dll	Win32/Filecoder.OSK	HybridPetya installer.
D31F86BA572904192D7476CA376686E76E103D28	f20000.mbam_update.exe	Win32/Filecoder.OSK	HybridPetya installer.
A6EBFA062270A321241439E8DF72664CD54EA1BC	improved_notpetyanew.exe	Win32/Kryptik.BFRR	HybridPetya installer.
C8E3F1BF0B67C83D2A6D9E594DE8067F0378E6C5	notpetya_new.exe	Win32/Kryptik.BFRR	HybridPetya installer.
C7C270F9D3AE80EC5E8926A3CD1FB5C9D208F1DC	notpetyanew.exe	Win32/Kryptik.BFRR	HybridPetya installer.
3393A8C258239D6802553FD1CCE397E18FA285A1	notpetyanew_improved_final.exe	Win32/Kryptik.BFRR	HybridPetya installer.
98C3E659A903E74D2EE398464D3A5109E92BD9A9	bootmgfw.efi	N/A	UEFI application vulnerable to CVE-2024-7433.
D0BD283133A80B47137562F2AAAB740FA15E6441	cloak.dat	EFI/Diskcoder.A	Specially formatted cloak.dat related to CVE-2024-7433, contains XORed HybridPetya UEFI bootkit component.

MITRE ATT&CK techniques

This table was built using [version 17](#) of the MITRE ATT&CK framework.

Tactic	ID	Name	Description
Resource Development	T1587.001	Develop Capabilities: Malware	HybridPetya is new ransomware with UEFI compatibility and a UEFI bootkit component developed by unknown authors.
	T1587.004	Develop Capabilities: Exploits	HybridPetya's authors developed an exploit for the CVE-2024-7344 UEFI Secure Boot bypass vulnerability.
Execution	T1203	Exploitation for Client Execution	HybridPetya exploits CVE-2024-7344 to execute an unsigned UEFI bootkit on outdated systems with UEFI Secure Boot enabled.
	T1106	Native API	HybridPetya installers use undocumented native API NtRaiseHardError to cause a system crash after the bootkit's installation.
Persistence	T1542.003	Pre-OS Boot: Bootkit	HybridPetya persists using the bootkit component. It supports both legacy and UEFI systems.
	T1574	Hijack Execution Flow	HybridPetya installers hijack the regular system boot process by replacing the legitimate Windows bootloader with a malicious one.
Privilege Escalation	T1068	Exploitation for Privilege Escalation	HybridPetya exploits CVE-2024-7344 to bypass UEFI Secure Boot and execute the malicious UEFI bootkit with high privileges during bootup.
Defense Evasion	T1211	Exploitation for Defense Evasion	HybridPetya exploits CVE-2024-7344 to bypass UEFI Secure Boot.
	T1620	Reflective Code Loading	HybridPetya installers use the reflective DLL loading technique.
	T1036	Masquerading	The HybridPetya bootkit displays fake CHKDSK messages on the screen during disk encryption to mask its malicious activity.
Impact	T1486	Data Encrypted for Impact	The HybridPetya installer encrypts files with specified extensions and the bootkit component encrypts MFT file on each NTFS-formatted partition.
	T1529	System Shutdown/Reboot	HybridPetya reboots the device after MFT encryption.



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