

## BitPyLock Ransomware Now Threatens to Publish Stolen Data

By Lawrence Abrams

Published: 2020-01-21 · Archived: 2026-04-05 13:02:48 UTC



A new ransomware called BitPyLock has quickly gone from targeting individual workstations to trying to compromise networks and stealing files before encrypting devices.

BitPyLock was first [discovered by MalwareHunterTeam](#) on January 9th, 2020 and has since seen a trickle of new victims daily.

What is interesting is that we can compare the ransom notes of earlier versions with the latest versions to see a clear progression in the types of victims that are targeted.



Visit Advertiser website [GO TO PAGE](#)

To make matters worse, as ransomware operators [begin stealing data before encrypting victims](#) for use as leverage, BitPyLock actors claim to be adopting this tactic as well.

## The BitPyLock Ransomware

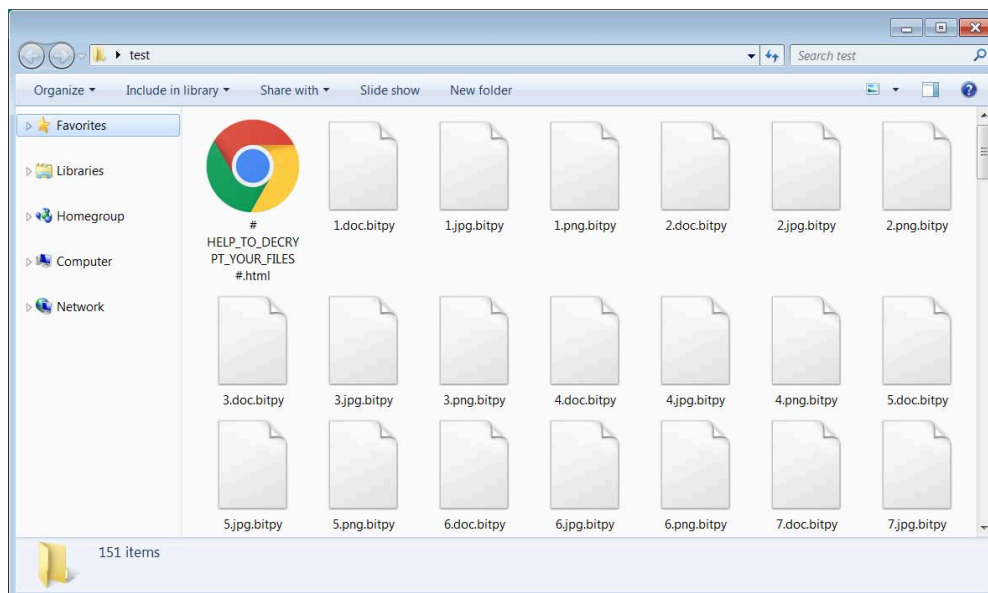
Based on our analysis, when first launched, BitPyLock will attempt to terminate any processes that contain the following strings. This is done to terminate security software and close files being used by backup software, web server daemons, virtual machines, and databases so that they can be encrypted.

```
backup, cobain, drop, drive, sql, database, vmware, virtual, agent, anti, iis, web, server, apache
```

While encrypting files, BitPyLock will target 346 extensions (listed in the IOCs section) and will skip any files located in the following folders.

```
windows  
windows.old  
program files  
program files (x86)  
program data  
$recycle.bin  
system volume information
```

For every encrypted file, the ransomware will append the **.bitpy** extension as shown below. For example, a file named 1.doc will be encrypted and renamed to 1.doc.bitpy.

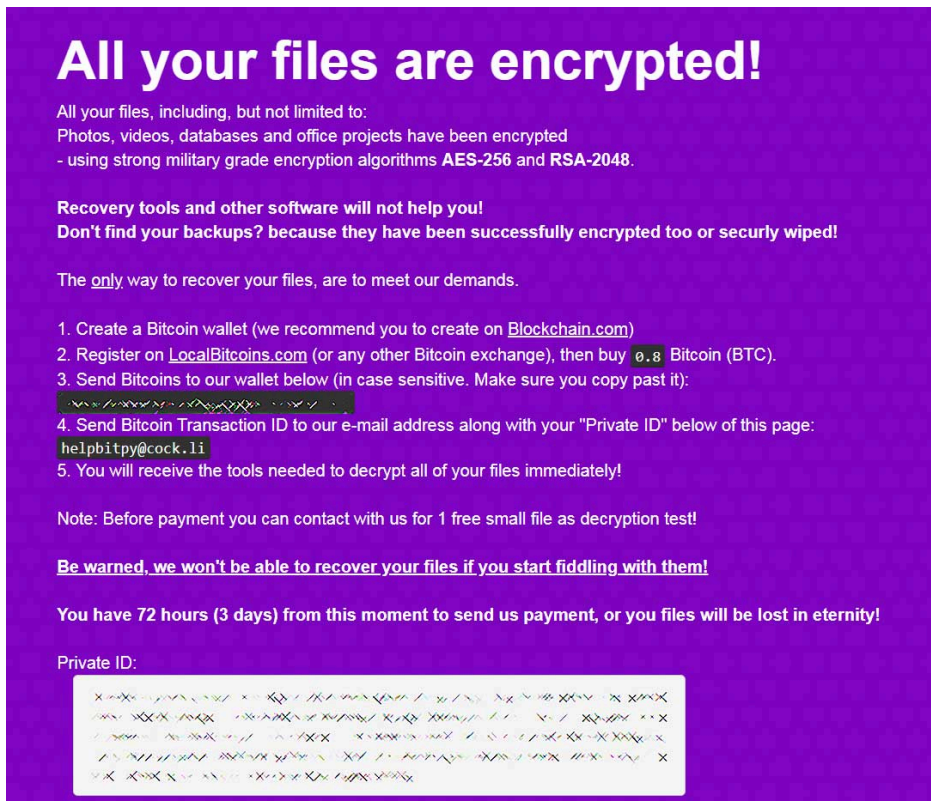


### Encrypted BitPyLock files

In each folder and on the Windows desktop, BitPyLock will create a ransom note named **# HELP\_TO\_DECRYPT\_YOUR\_FILES #.html** that instructs the users to send a bitcoin ransom to the enclosed bitcoin address. It then instructs the victim to email the listed address to get a decryptor.

In the sample BleepingComputer analyzed, the ransom amount was hardcoded to .8 bitcoins.

The language in the original ransom note also indicated that the attackers were targeting individual machines rather than networks.



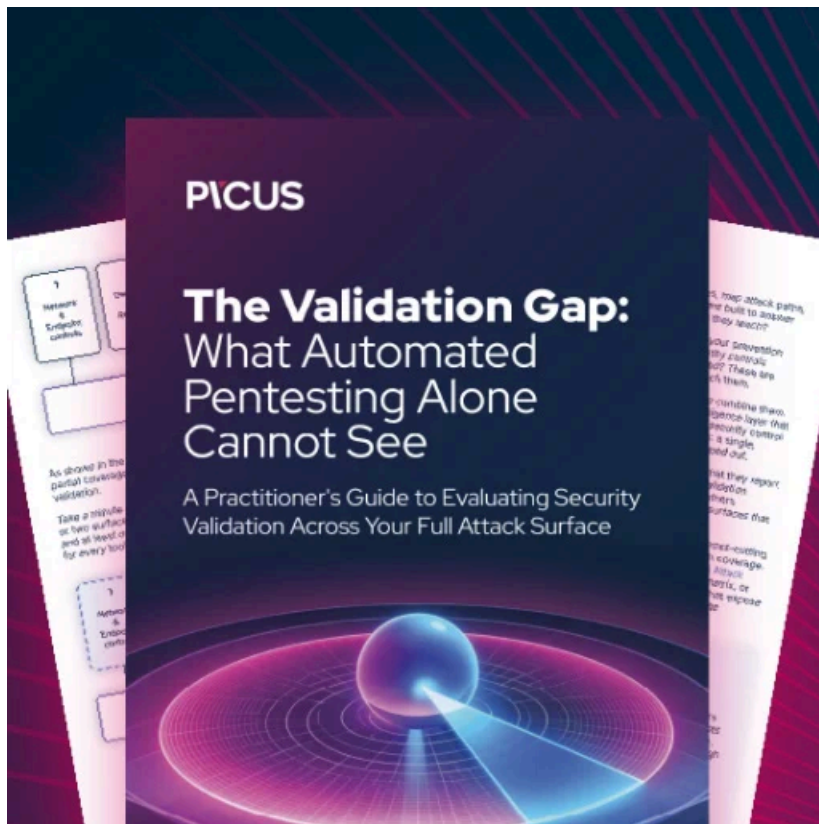
### Original ransom note

Strangely, the sample that we saw had a static bitcoin address in the executable, which means every victim would have the same bitcoin address and thus it could make it impossible to determine who paid the ransom.

### Evolves to network attacks and the publishing of stolen data

In a more recent version discovered by MalwareHunterTeam, the actors have changed their targeting to focus on network compromise and the claims of stealing data before encrypting devices.





### [Automated Pentesting Covers Only 1 of 6 Surfaces.](#)

Automated pentesting proves the path exists. BAS proves whether your controls stop it. Most teams run one without the other.

This whitepaper maps six validation surfaces, shows where coverage ends, and provides practitioners with three diagnostic questions for any tool evaluation.

---

Source: <https://www.bleepingcomputer.com/news/security/bitpylock-ransomware-now-threatens-to-publish-stolen-data/>