

GANDCRAB RANSOMWARE DECRYPTION TOOL

Technical description:

This tool recovers the encrypted files, affected by GandCrab ransomware (V1,V4,V5). You can recognize this ransomware and its version, by the extension it appends to the encrypted files and/or ransom-note:

Version	Extension	Ransom-note Info
1	.GDCB	---= GANDCRAB =---, the extension: .GDCB
2	.GDCB	---= GANDCRAB =---, the extension: .GDCB
3	.CRAB	---= GANDCRAB V3 =--- the extension: .CRAB
4	.KRAB	---= GANDCRAB V4 =--- the extension: .KRAB
5	.[A-Z]+)	---= GANDCRAB V5.0 =--- the extension: .UKCZA ---= GANDCRAB V5.0.2 =--- the extension: .YIAQDG ---= GANDCRAB V5.0.2 =--- the extension: .CQXGPMKNR ---= GANDCRAB V5.0.2 =--- the extension: .HHFEHIOL

In order for this recovery solution to work, you are required at least 1 available ransom-note on your PC. The ransom-note is required to recover the decryption key, please make sure that you do not run a clean-up utility which detects and removes these ransom-notes. The information inside the ransom-note, taken as input for the key-recovery procedure may look in one of the two ways, shown below. Judging by this information, GandCrab ransomware had a significant shift since January 2018, which relates to encryption mechanism.

GandCrab V1,V2,V3:

---= GANDCRAB =---

Attention!

All your files documents, photos, databases and other important files are encrypted and have the extension: .GDCE
The only method of recovering files is to purchase a private key. It is on our server and only we can recover your files.
The server with your key is in a closed network TOR. You can get there by the following ways:

1. Download Tor browser - <https://www.torproject.org/>
2. Install Tor browser
3. Open Tor Browser
4. Open link in tor browser: <http://gdcgbghvjyqy7jclk.onion/cce5e5c748f05>
5. Follow the instructions on this page

If Tor/Tor browser is locked in your country or you can not install it, open one of the following links in your regular browser:

1. <http://gdcgbghvjyqy7jclk.onion.top/>
2. <http://gdcgbghvjyqy7jclk.onion.casa/>
3. <http://gdcgbghvjyqy7jclk.onion.guide/>
4. <http://gdcgbghvjyqy7jclk.onion.rip/>
5. <http://gdcgbghvjyqy7jclk.onion.plus/>

On our page you will see instructions on payment and get the opportunity to decrypt 1 file for free.

! DANGEROUS!

Do not try to modify files or use your own private key - this will result in the loss of your data forever!

GandCrab V4,V5

---= GANDCRAB V5.0.2 =---

Attention!

All your files, documents, photos, databases and other important files are encrypted and have the extension: .YIAGQG
The only method of recovering files is to purchase a unique private key. Only we can give you this key and only we can recover your files.
The server with your key is in a closed network TOR. You can get there by the following ways:

1. Download Tor browser - <https://www.torproject.org/>
1. Install Tor browser
2. Open Tor Browser
3. Open link in TOR browser: <http://gandcrabmfefmef.onion/d870d3cc22be493d>
4. Follow the instructions on this page

On our page you will see instructions on payment and get the opportunity to decrypt 1 file for free.

ATTENTION!

IN ORDER TO PREVENT DATA DAMAGE:

- * DO NOT MODIFY ENCRYPTED FILES
- * DO NOT CHANGE DATA BELOW

---BEGIN GANDCRAB KEY---

```
LAQARH2eRfRne4UD9I5899eEND07ze+NL/W0Gux36e0uzsRZMlXeaScXw/3pjzlk+KvhwE2Qp9xWCIZ4pp+NEHQ+H4d28/7Luz2nt0eWu9Coux9ZIfdsLaa4lcSIde50f0k1gk1/AD182262Kxi5Xjwv0VwzHxv0/prr5Ww/ux1A86e6Nlr+J3J  
Kx+RmK062deagKisf100g100WSE7WPHI9KisScay1eKndFPG930kndFQKx0/2j+2nW2jR2W0yVDMNntZM1949JUNQa9ub51c+Tu0Tweq9Wk/Cs1g1WjITD0f63nL5abDbbYBRKjQjDelgJ0h8u874nR8g711A337/F4V1A8m1M  
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Y7AKXkHmMaYUFL3T4CFeAp+HaaVhSa18CXk58+9/VVp+gRmQzD1R3Dw58t2Uksh5PcFBRGRHFkko70y2d1LkF7rDMqnrDg+1ANj6p12cV7LCfTvwMnE4E4v5SqpWcF18JnITQdA1A6fEbGxTce108EJThv9TZxxK5GyVurp21bb3RQ0Nj  
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uWU27jE078Fy9obAq271acXbFZHQVdM3MwCRQ3k15fAov6VEEpk3WhtyCraUzeE16tBDYdL21e1kPzIFga/JEobk591Crfw3DB5/9kLo33jz273guIsE9k+K4G8JwVxRaxmV730U7z36o2Za/KK41S668yswI0oqa1Bk6K4F01DoVpPQQyqD1+  
SxS18qCz1+AUbo1oORDh3BI12qz21TS0v+JkH+VwQNFoy4CFDPeAV9jzom01jF2HA0LB8cmCKedWqTqyobZQba/RQDdnh/SE2uCHCzFIDyIgf/47zFzCq7Qjbr4NjrkavzG//7TheHush4tj9NG/Ffy0n2v51sr/LeEwiR3K0W9Vav32H6wMcy7Ahs9e  
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N1VcWTF9Y07691y120k37128V10u75MxLU/L35w41/KAIn50dNhm4pccT3p/knLsU0+jahzT0Q3jgAy7p3k00/XacReGy65821461Xdrn011K1UhmpeubrA3F61g7kAD0F2ERF4210h9KZL2mLz433Bmdp9W4JkAG55v3IHGL++20CzqFV  
uFMAF9y993jiv2m2knuvB51RnRb364872Qzde44ELVxvzm2yM0Czgam0m7eFvqgd+ymL2ga+FLINXHG4EE790WvCm8pFWKcc0+U0EThsEjyge5sIHkhk25VqyAEz+Ysp9Ch71aut5BFRkyFVUR5eQc2e1eBauEgk6rBw31+e  
f1MFK1LYCM2oG54HF9e81rTE5QVnm=D4vmM8SGt4Lcu3X8UR6QmGv5FH24+YadV620D9wvELx+1e0nS3K1UBH24wDR1w/F9mF10V9WHr1H/S04E1Qv-
```

---END GANDCRAB KEY---

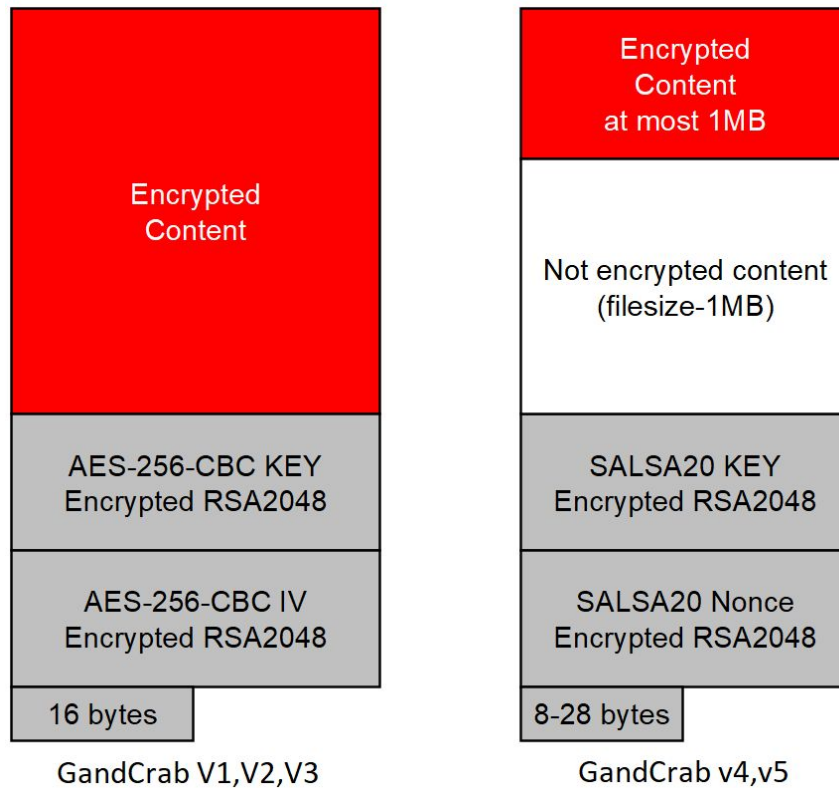
---BEGIN PC DATA---

```
wKd6iudumBmPL8R4u56xFfA10T3t3j3jOpvkl1Yov0uNk4WY21dy2ZaTvpRmYc7h5W1bf2Hh6x5o5BjDzmdM7/LeakGoDvL1pJW8+FCV/cmEodZASLruj6FkX2VxvF2KGiv0hS53Av1Arz240XK8LnXW8kYXQyb2GwGdeY1YDKS0xtQpK  
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yp2Q1uJ8tR0q1PQ71c0JF7wW0cc88P9hRwY+C05cALqfj2Pp61zlw3oxAhKyo7w21fpDRFF3vbLH+all2w203R0R1CkAtm1jXgAxi9m1wks270UxnL1s1z273IMV7/pezfyAsceMBjP3JNinXQ3j3K3KReuDrKigBY1eM568hs40cb/HRd8Peak  
9V+butL0mJ79hY1h0czduxeRbttC/+YbnzW5+J0X5ePc9qFxb0L2R2xgMLLQ0z3QcTdj35qF71WEn7J7T+2b
```

---END PC DATA---

The shift of the ransomware was about using a different encryption type and, if versions 1,2,3 of the ransomware used AES-256-CBC, versions 4 and 5 use Salsa20.

The ransomware kept constant the encryption flow, but considered the damages they have done to files exceeding 4GB in their first versions, and now they only encrypt at most 1MB.



Steps for decryption:

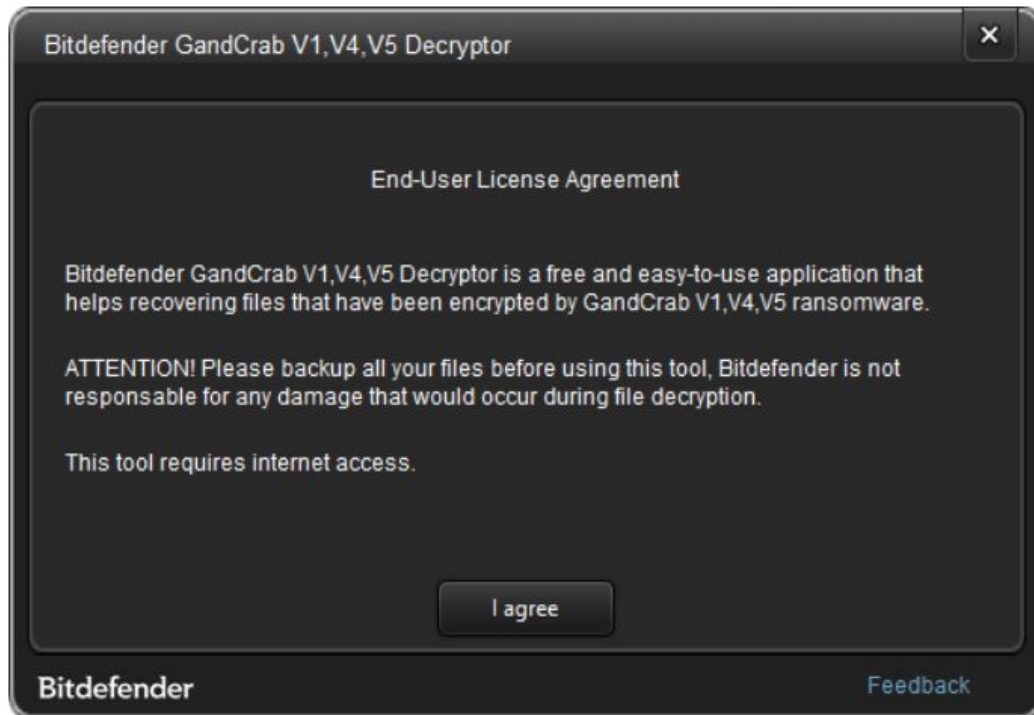
Step 1: Download the decryption tool from http://download.bitdefender.com/am/malware_removal/BDGandCrabDecryptor.exe and save it somewhere on your computer

*This tool **REQUIRES** an active internet connection as our servers will attempt to reply the submitted ID with a possible valid RSA-2048 private key. If this step succeeds the decryption process will continue.*

Step 2: Double-click the file (previously saved as BDGandCrabDecryptor.exe) and allow it to run by clicking Yes in the UAC prompt.

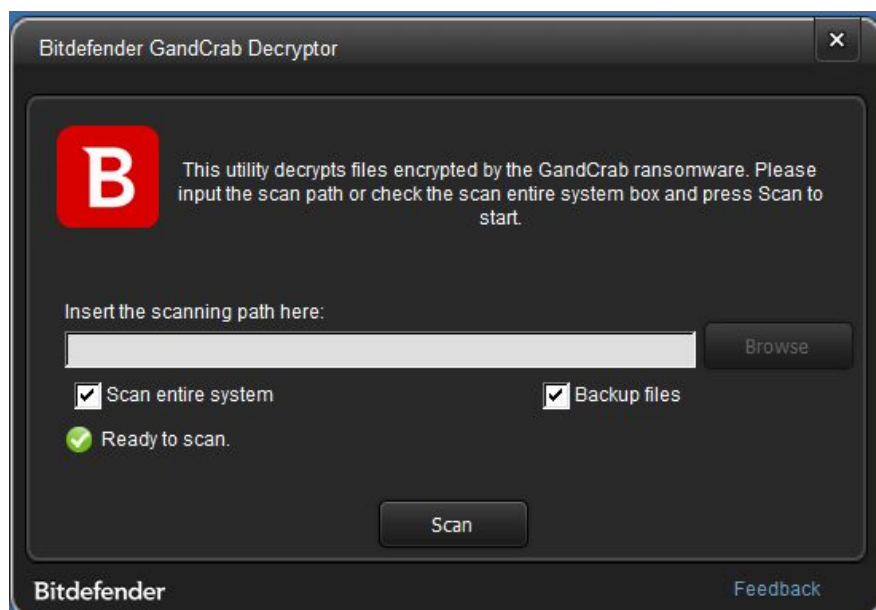


Step 3: Select “I Agree” for the End User License Agreement



Step 4: Select “Scan Entire System” if you want to search for all encrypted files or just add the path to your encrypted files.

We strongly recommend that you also select “Backup files” before starting the decryption process. Then press “Scan”.





Regardless of whether you check the “Backup files” option or not, the decryption tool attempts to decrypt **5 files** in the provided path and will NOT continue if the test is not successfully passed. The chances that something goes wrong are actually low, however we make these supplementary checks to make sure that nothing goes wrong nor on your, nor our side. This approach may not suits some testers, which might want to decrypt 1-2 files at most, or not conforming file extensions.

At the end of this step, your files should have been decrypted.

If you encounter any issues, please contact us at forensics@bitdefender.com.

If you checked the backup option, you will see both the encrypted and decrypted files. You can also find a log describing decryption process, in **%temp%\BDRemovalTool** folder:

To get rid of your left encrypted files, just search for files matching the extension and remove them bulk. We do not encourage you to do this, unless you double check your files can be opened safely and there is no trace of damage.

Acknowledgement:

This product includes software developed by the OpenSSL Project, for use in the OpenSSL Toolkit (<http://www.openssl.org/>)