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Subject: IGAL encrypted folder  
Posted by [idkfa46](#) on Tue, 29 Dec 2020 13:49:08 GMT  
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Hi guys,  
my upp folder has been encrypted by IGAL ransomware virus.  
In your opinion is there any chance to find out the decryption key comparing a couple of files I have in both versions encrypted and not encrypted?

Thanks

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Subject: Re: IGAL encrypted folder  
Posted by [Xemuth](#) on Thu, 31 Dec 2020 10:02:02 GMT  
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Hello idkfa46,

My knowledge about this kind of software is extremely limited so don't take my word for truth !

In my opinion it won't really help you.

To crack this kind of software you need the algorithm used to encrypt. In your case, if you know the algorithm you can still try to create a quick program that decrypts your file with a random key then if the hash of your file matches with the original one then you have the decryption key. On paper this way of working will always work but in reality if IGAL uses an encryption algorithm based on a key with a minimum size of 256 bits then it will be impossible to find the decryption key by using brute forcing.

Quote: Even if you use Tianhe-2 (MilkyWay-2), the fastest supercomputer in the world, it will take millions of years to crack 256-bit AES encryption.

Again, I'm far from being an expert and my knowledge is highly limited.

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Subject: Re: IGAL encrypted folder  
Posted by [idkfa46](#) on Sat, 02 Jan 2021 16:31:13 GMT  
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I think you are true... decryption with an online ID seems to be impossible at the moment!

What is a good back-up solution to prevent this kind of data loss? As far as I understand this kind of virus affects the overall SSD, USB external drives connected, and the cloud storage too...

Best,  
Matteo

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Subject: Re: IGAL encrypted folder  
Posted by [Zbych](#) on Sat, 02 Jan 2021 20:24:30 GMT  
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idkfa46 wrote on Sat, 02 January 2021 17:31

What is a good back-up solution to prevent this kind of data loss? As far as I understood this kind of virus affects the overall SDD, USB external drivers connected, and the cloud storage too...

Any backup that has version control (GIT, SVN) or rights management (no right to change uploaded files - GCP).