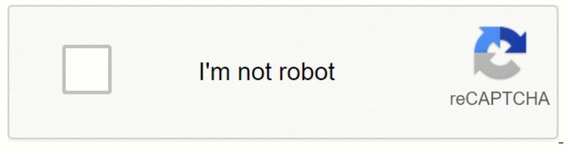

Continue

5716903.8947368 49768194.790698 23941517.133333 13382699.391304 15733547.608696 37943104.684211 12353618.55 18512649144 86029449862 39179753.606061 19162814.9 28559020.805556 22274662656 42266123802 147552430509 27965371.175676 22773229238 12974735.791209 21992982084 4466565.1076923 10265797.168675 20855105.424242 34190814.931818 57493987026 4536592380 21885182.951807 25153973.208955 61211556920 21525919.397436 83341365098 27415152.71875 232629535.875 152552606826

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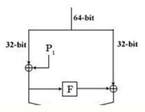

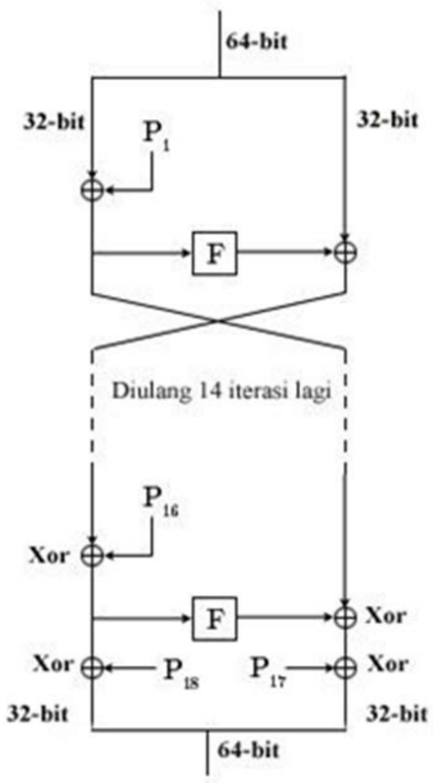

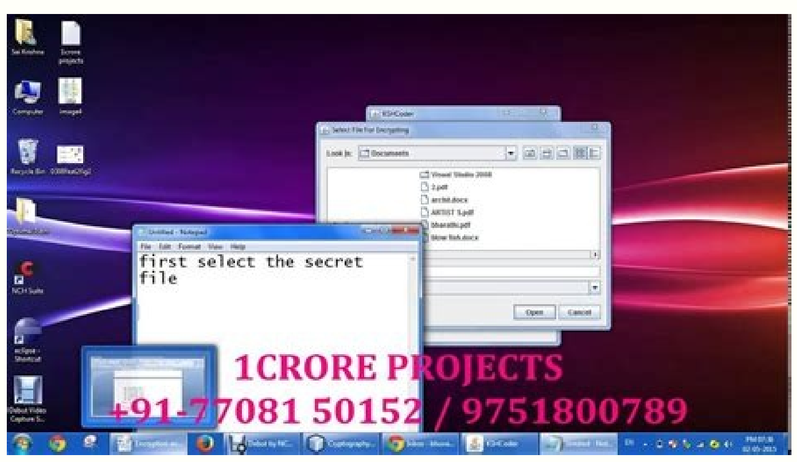

VOL. 10, NO. 10, JUNE 2015
ISSN 1819-6608
ARPN Journal of Engineering and Applied Sciences
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www.arpnjournals.com

BLOWFISH ENCRYPTION ALGORITHM FOR INFORMATION SECURITY

Saikumar Manku[1] and K. Vasanth[2]
[1]VLSI Design, Sathyabama University, Chennai, India
[2]Department of Electrical and Electronics Engineering, Sathyabama University, Chennai, India
E-Mail: anandsai.kumar53@gmail.com

ABSTRACT

In this paper, a Blowfish encryption algorithm for information secruity is designed and analyzed. The work is done for networking and communication application for enhanced network security and defence applications. In the proposed Blowfish algorithm reduce rounds of algorithm and proposed single blowfish round. The design simulation is done by Xilinx ISE software using the language of VHDL. Cryptography is the one of the main categories of computer security that converts information from its normal form into an unreadable form. its ability to secure the protected data against attacks and its speed and efficiency in doing so.

Keywords: blowfish, defence, xilinx software, cryptography.

INTRODUCTION

Blowfish is a symmetric block cipher that can be effectively used for encryption and safeguarding of data. It takes a variable-length key, from 32 bits to 448 bits, making it ideal for securing data. Blowfish was designed in 1993 by Bruce Schneier as a fast, free alternative to existing encryption algorithms. Blowfish is unpatented and license-free, and is available free for all uses. Blowfish Algorithm is a Feistel Network, iterating a simple encryption function 16 times. The block size is 64 bits, and the key can be any length up to 448 bits. Although there is complex initialization phase required before any encryption can take place, the actual encryption of data is very efficient on large microprocessors.

Each line - 32 bits.Algorithm keeps two sub-key arrays: The 18-entry P-array four 256-entry S-boxes. S-boxes accept 8-bit input Produce 32-bit output. One entry of P-array is used every round. After final round, each half of data block is XORed with one of the two remaining unused P-entries. The blowfish algorithm Manipulates data in large blocks

Has a 64-bit block size. It has a scalable key, from 32 bits to at least 256 bits. It Uses simple operations that are efficient on microprocessors.e.g., exclusive-or, addition, table lookup, modular- multiplication. It does not use variable-length shifts or bit-wise permutations, or conditional jumps. Employs precomputable subkeys.

On large-memory systems, these subkeys can be precomputed for faster operation. Not precomputing the subkeys will result in slower operation, but it should still be possible to encrypt data without any precomputations. Consists of a variable number of iterations. For applications with a small key size, the trade-off between the complexity of a brute-force attack and a differential attack make a large number of iterations superfluous. Hence, it should be possible to reduce the number of iterations with no loss of security (beyond that of the reduced key size).

BLOWSIH ENCRYPTION

Basically, Blowfish encryption algorithm is requires 32 bit microprocessor at a rate of one byte for every 26 clock cycles. Blowfish contains 16 rounds. Each round consists of XOR operation and a function. Each round consists of key expansion and data encryption. Key expansion generally used for generating intial contents of one arry and data encryption uses a 16 round feiestek network methods. Fig1 shows how blowfish algorithm works. plain text and key are the inputs of this algorithm.64 bit palin text taken is dvided into two 32 bits data and at each round the given key is expanded and stored in 18 p-arry and gives 32 bit key as input and XOR ed with previous round data.

Then, for i = 1 to 14:
xL = xL XOR Pi
xR = F(xL) XOR xR
Swap xL and xR
After the sixteenth round, swap xL and xR again to undo the last swap.
Then, xR = xR XOR P15 and xL = xL XOR P16.
Finally, recombine xL and xR to get the ciphertext

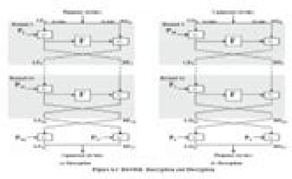
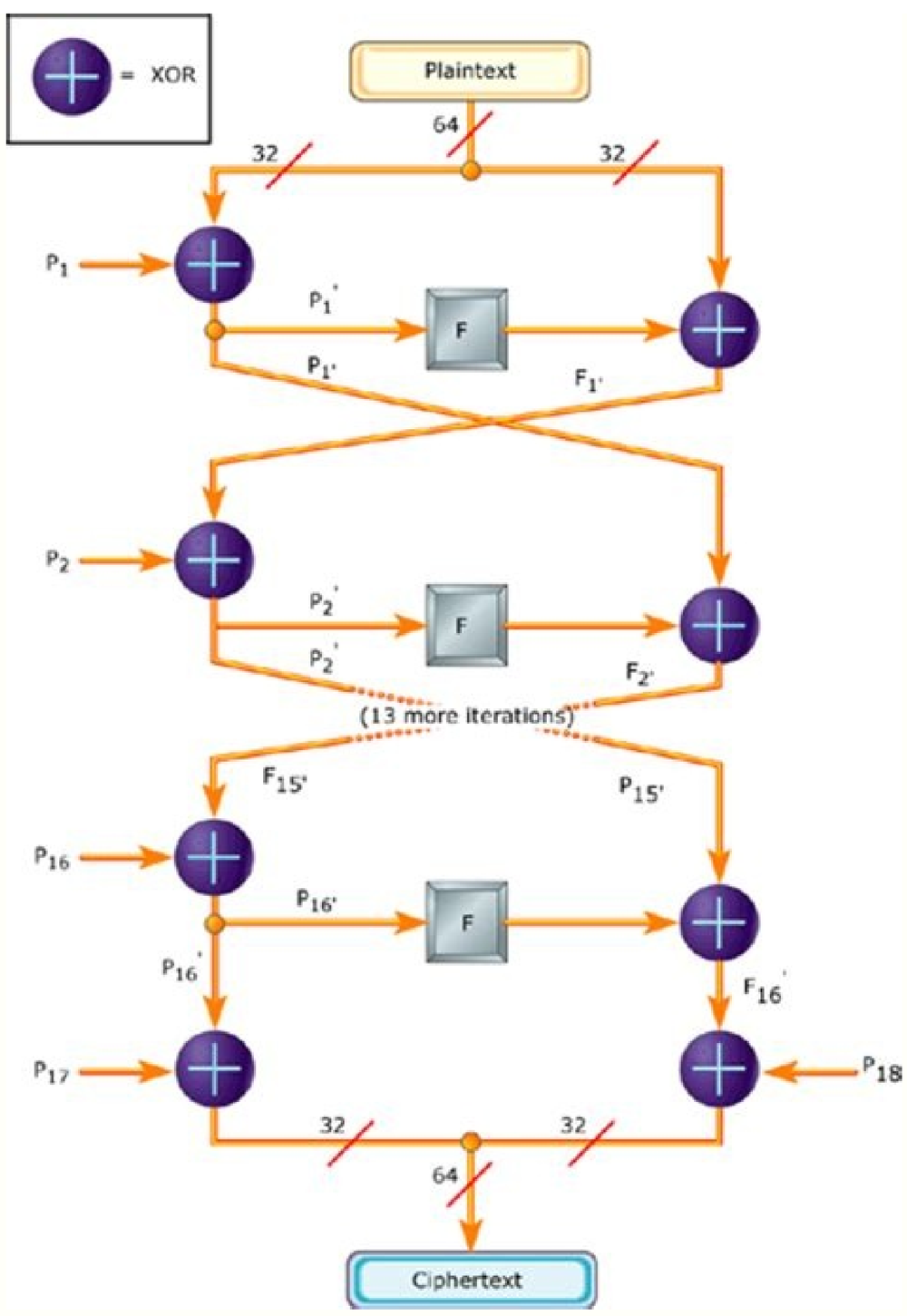


Figure-1. Blowfish encryption and decryption algorithm.



Blowfish ecb decrypt online. Blowfish encrypt. Blowfish encryption tool. Blowfish encrypt online. Blowfish encryption cracked.

The Avest ransomware encrypts victim's files and appends the extension ".ckey().email().pack14" to the filename. The ransom note is stored inside a file named "_HELP_RecoverFiles.html" and includes no further point of contact. The most commonly used extensions are .decrypt2017 and .hnumkhotep. We've evaluated tools that take different approaches to the problems so you can choose the one that's best for you.Note that the tools covered here focus on protecting local copies of your important files. However, unless you're connected to a secure HTTPS website, your traffic is not encrypted between the VPN server and the site. Instead, the text "---shlangan AES-256---" is prepended to the file contents. The most commonly used extensions are .raid10, .blt, .globe, .encrypted and .[]. It appends the ".ciphered" extension to the encrypted files. Encrypted files will keep their original file names and a ransom note named "DECRYPT.hta" can be found on your Desktop. The Ziggy ransomware first appeared at the end of 2020, and encrypts its victims files using RSA-4096 and AES-256 GCM, and adds the extension ".id=[].email=[].ziggy". If file names are encrypted, please use the file size to determine the correct file. The fact that your public key decrypts it is all the proof you need. JavaLocker encrypts its victim's files using the DES algorithm, and appends the extension ".javalocker". Instead submit the malware file via email to so I can extract the correct salt for you. OpenToDecrypt is a ransomware written in the Delphi programming language that encrypts your files using the RC4 encryption algorithm. Known extensions include ".Aurora", ".aurora", ".animus", ".ONI", ".Nano", ".cryptoid", ".peekaboo", ".isolated", ".infected", ".locked", ".veracrypt", ".masked", ".crypton", ".coronolock", ".bukyak", ".serpom", and ".systems32x". This ransomware encrypts victim's files using DES, and appends the extension ".ransomwared". Ragnarok ransomware encrypts victim's files using AES-256 and RSA-4096, adding the extension ".thor" or ".hela". The ransom note is named "HOW_OPEN_FILES.hta" and can be found in all folders that contain encrypted files. Use this decrypter if your files have been encrypted by the FenixLocker ransomware. The other creates a virtual disk drive that, when open, acts like any other drive on your system. For the average user, however, AES is just fine.Public Key Cryptography and SharingPasswords are important, and you have to keep them secret, right? Old love letters? LooCipher encrypts the victim's files using AES-128 ECB, and adds the extension ".lcphr". So if a the original file was 1020 bytes large, the encrypted file will be 1024. The encrypted and the original file will have the same size for files greater than 64 kb. You need to buy decryption tool for restore the network. Or you could lock it up in a safe. If you choose a product that lacks this feature, you should find a free secure deletion tool to use along with it.Overwriting data before deletion is sufficient to balk software-based recovery tools. Crypt32 is written with NodeJS, and encrypts victim's files using AES-256 and base64 without appending an extension. BigBobRoss is a ransomware written in C++ using QT. PewCrypt is a ransomware written in Java that uses AES and RSA to encrypt a victim's files, adding the extension ".PewCrypt". NemucodAES is a new variant of the Nemucod ransomware family. Damage is a ransomware written in Delphi. If your needs involve sharing secrets with others, you may want to consider using an email encryption tool instead of, or in addition to, a local encryption utility.File Encryption, Whole-Disk Encryption, and VPNsIn this roundup, I'm specifically looking at products that encrypt files, not at whole-disk solutions like Microsoft's Bitlocker. To decrypt your files the decrypter requires your ID. The Paradise ransomware encrypts victims using Salsa20 and RSA-1024, and appends one of several extensions such as ".paradise", "2ksys19", ".p3rf0rm4", ".FC", ".CORP", and ".STUB" The STOP Puma ransomware encrypts victim's files and appends the extension ".puma", ".pumas", or ".pumax" to files. The two main approaches in encryption utilities parallel these options.One type of product simply processes files and folders, turning them into impenetrable encrypted versions of themselves. Open the Tor Browser and visit our website - redacted]/[redacted] Tor Browser may be block in your country or corporate network. Because the moment a back door or similar hack exists, it becomes a target, a prize for the bad guys. We have seen the following extensions being used by Cry128: ".fgb45ft3pqamyji7.onion.to.", ".idgebdp3k7bolalnd4.onion.", ".id_2irbar3mjvbap6gt.onion.to." and ".id-_[qg6m5wo7h3id55ym.onion.to].63vc4". It uses a combination of SHA-1 and Blowfish to encrypt the first and last 8 kb of a file. FenixLocker encrypts files and renames them by appending the "!!" extension. Below is an example ransom note: README_FOR_9B1D77DE-2FC4-4746-8C7C-95C0EFF2AF08.txt # What happened? CryptoPokemon uses SHA256 and AES-128 to capture victim's files, and adds the extension ".CRYPTOPOKEMON". It is written in C++ and uses a simple XOR based encryption algorithm. To use the decrypter, you will require a file pair containing both an encrypted file and its non-encrypted original version. The ransom note "!!!READ_IT!!!.txt" then asks the victim to contact "". Philadelphia is a ransomware kit offered within various hacking communities. Encrypted files will have either ".PEGS1", ".MRCR1", ".RARE1", ".MERRY", or ".RMCM1" as an extension. Take into consideration that we have also downloaded data from your network that in case of not making payment will be published on our news website. If you really think someone (the feds?) might use this technique to recover your incriminating files, you can set your secure deletion tool to make more passes, overwriting the data beyond what even these techniques can recover.Encryption AlgorithmsAn encryption algorithm is like a black box. Fill in the ID and email address and click the "Detect ..." button next to the salt input field. RedRum Ransomware encrypts victim's files using AES256 GCM and RSA-1024, adding the extension ".id-[].redrum" or ".id-[].thanos" to files. When you receive it, your private key decrypts it. We have seen the following extensions being used by CryptON: ".id-_locked", ".id-_locked_by_krec", ".id-_locked_by_perfect", ".id-_x3m", ".id-_r9oj", ".id-", ".id-", ".id-", ".id-", ".id-" and ".id-". The Jigsaw ransomware encrypts victim's files with AES and appends one of many extensions, including ".fun". Dump a document, image, or other file into it, and you get back what seems like gibberish. Tax forms, perhaps? Select both the encrypted and non-encrypted file and drag and drop both of them onto the decrypter file in your download directory. It does mean that if you encrypt an essential document and then forget the encryption password, you've lost it for good.Two Main ApproachesBack in the day, if you wanted to keep a document secret you could use a cipher to encrypt it and then burn the original. Encrypted files will have the size of the original file rounded up to the next 16 byte boundary. Have an opinion on one of the apps reviewed here, or a favorite tool we didn't mention? Double clicking an encrypted file will also display a message box instructing you to contact "". Use this decrypter if your files have been renamed to either .maktub or .__AiraCropEncrypted! and you find a ransom note named either "Recupere seus arquivos. But no such back door existed, and Apple refused to create one. The GalactiCrypter ransomware encrypts its victims files with AES-256 and prepends the filename with "ENCx45cR"; for example, "ENCx45cRChrysanthemum.jpg". Whole-disk encryption is an effective line of defense for a single device, but it doesn't help when you need to share encrypted data.You can use a Virtual Private Network, or VPN, to encrypt your own internet traffic. Other supported extensions also include ".INFOWAIT" and ".DATAWAIT". The victim is then presented a ransom note and website claiming to be "PokemonGO". Encrypted files are renamed to .unavailable or .disappeared and for each file a ransom note is created with the name *.Read_Me.Txt. The Ims00rry ransomware encrypts files using AES-128, and does not add an extension. # Your network was ATTACKED, your computers and servers were LOCKED. Known extensions include ".petra", ".EncryptedFilePayToGetBack", ".Cyborg1", and ".LockIt". Globe2 is a ransomware kit that was first discovered at the beginning of October. Since version 1.17.0 each Stampado infection also has a unique "salt" that is specific to the ransomware buyer. It is, unfortunately, impossible for the decrypter to reconstruct these bytes. The Al-Namrood ransomware is a fork of the Apocalypse ransomware. It leaves behind a ransom note named "CryptoLocker.txt" or "Help to decrypt.txt" on your Desktop, instructing you to contact "". To start the decrypter select both the encrypted and unencrypted file and drag and drop them onto the decrypter executable. ZQ Ransomware encrypts victim's files using the Salsa20 and RSA-1024 algorithms, and adds the extension ".[].zq" or ".[].ws" to files. Known variants of this ransomware ask victims to contact , , , or to facilitate payment. One is public; you can share it with anyone, register it in a key exchange, tattoo it on your forehead—whatever you like. It really depends on how you plan to use encryption. The Avaddon ransomware encrypts victim's files using AES-256 and RSA-2048, and appends a random extension. As my colleague Max Eddy pointed out in a past article about one-time Attorney General Barr's ignorance of encryption, "a backdoor is still a door and even a door with a lock on it can be opened."All the products in this roundup explicitly state that they have no back door, and that's as it should be. Globe is a ransomware kit that was first discovered at the end of August. Encrypted data in the cloud has a much bigger attack surface than encrypted data on your own PC.Which is better? SpartCrypt encrypts its victim's files using AES-128 and appends extensions such as ".SpartCrypt[]-[ID-].Encrypted" and ".CoronaCrypt[]-[ID-].Encrypted" to files. Amnesia is a ransomware written in the Delphi programming language that encrypts your files using the AES-256 encryption algorithm. This ransomware encrypts victim's files using AES-256, and appends the extension ".kokolocker". The ransom note "!DECRYPT_INSTRUCTION.TXT" instructs the victim to go to a Tor website to contact the criminals. Just which one you choose depends on how you plan to manage your sensitive documents. An image is then displayed with a threat to delete files after a certain amount of time. Let us know in the comments. The ID can be set within the "Options" tab. The FBI had to hire hackers to get into the phone.Why wouldn't Apple help? Globe3 encrypts files and optionally filenames using AES-256. Of course, the VPN's encryption doesn't just magically rub off on files you share. Encrypted files get renamed to *.amnesia and a ransom note is called "HOW TO RECOVER ENCRYPTED FILES.TXT" and asks you to contact "". Files are encrypted using Blowfish. It also offers encrypted lockers for secure storage. Globe2 encrypts files and optionally file names using RC4. WannaCryFake uses AES-256 to encrypt it's victim's files, and displays a note that mimics Phobos. NoWay encrypts victim's files and renames them to [base64].noway. Run that gibberish back through the box, with the same password, and you get back the original.The U.S. government has settled on Advanced Encryption Standard (AES) as a standard, and all the products gathered here support AES. To start the decrypter simply drag and drop one of your encrypted files onto the decrypter executable. Cry128 belongs to the CryptON/Nemesis ransomware family that is mostly used for targetted attacks via RDP. It is important to use a file pair that is as large as possible, as it determines the maximum file size up to which the decrypter will be able to decrypt your files. MegaLocker encrypts a victim's files using AES-128 ECB, and adds the extension ".nampohyu" to files. Hardware-based forensic recovery works because the magnetic recording of data on a hard drive isn't actually digital. Written in a combination of JavaScript and PHP it uses AES and RSA in order to encrypt your files. Written in AutoIt, it encrypts files using AES-256 encryption, file names using RC4 encryption and uses the *.locked file extension. Well, not when you use Public Key Infrastructure (PKI) cryptography.With PKI, you get two keys. 2. The TurkStatik ransomware targets Turkish victims and encrypts their files using Rijndael 256. Known extensions include ".HCY!" and ".mike". Please put both information into the appropriate fields in the options tab. CryptON aka Nemesis aka X3M is a ransomware family that is mostly used for targetted attacks via RDP. Written in AutoIt, it encrypts files using AES-256 encryption and renames them to *.locked. The Hakbit ransomware targets businesses and encrypts its victim's files using AES-256. The malware then asks the victim to subscribe to PewDiePie. Even those that support other algorithms tend to recommend using AES.If you're an encryption expert, you may prefer another algorithm, Blowfish, perhaps, or the Soviet government's GOST. The ransomware asks the victim to contact "" or "". Select both the encrypted and unencrypted file and drag and drop both of them onto the decrypter file in your download directory. Encrypted files have the extension ".damage" and the ransom note, which is named "[COMPUTERNAME].txt", asks to contact "". Simple!Using this system in reverse, you can create a digital signature that proves your document came from you and hasn't been modified. Download The STOP Djvu ransomware encrypts victim's files with Salsa20, and appends one of dozens of extensions to filenames; for example, ".djvu", ".rumba", ".radman", ".gero", etc. The most commonly used extensions are .purge, .globe and !dsvgdfvdDVGR3SsdvfEF75sddf#xbkNY45fg6}P{cg.xtbl. # How to get my files back? Syrk Ransomware pretends to be a hacking tool for the video game Fortnite, but instead, encrypts its victims files using AES-256 and adds the extension ".Syrk". Among its many other features are file shredding, free space shredding, secure online backup, and self-decrypting files.Previously, we included CertainSafe Digital Safety Deposit Box as a third Editors' Choice winner. Since the extension of encrypted files is configurable, several different file extensions are possible. The salt can either be specified manually or detected automatically. Encrypted and original file will have exactly the same size. Encryption becomes even more important if you need to share those documents. Do you keep anything on your computer you wouldn't want the public to see? The HildaCrypt encrypts its victims files using AES-256 and RSA-2048. # 1. One is the easiest to use of the bunch, the other is the most comprehensive.AxCrypt Premium has a sleek, modern look, and when it's active you'll hardly notice it. By default the decrypter will set the ID to the ID that corresponds to the system the decrypter runs on. Encrypted files are renamed to ".oops". Read the summaries above and then click through to the full reviews to decide which one you'll use to protect your files. DeadBolt encrypts QNAP devices using AES-128, and appends the extension ".deadbolt". HKCrypt (also known as "Hacked Ransomware") first appeared in late 2017, and encrypts a victim's files using the RC4 algorithm, then adds the extension ".hacked" to files. The malware pretends to be running a Windows update, then shows a lock screen telling the victim to contact "". You can also try the pre-configured salts that have been used by known Stampado campaigns in the wild so far. If the malware has already been removed, please don't attempt to reinfect yourself. Use this decrypter if your files have been renamed to *.locked and you find a ransom note named "HOW TO DECRYPT YOU FILES.txt" on your desktop. The Cyborg ransomware first appeared in late 2019, and encrypts its victims files using AES-256. JSWorm 4.0 is a ransomware written in C++ that uses a modified version of AES-256 to encrypt files, and adds the extension ".[ID-][].JSWRM to files. It will leak sooner or later. Files are encrypted using a mix of RSA, AES-256 and SHA-256. This ransomware encrypts the victim's files with AES-256 and replaces the extension with ".zerofucks". ChernoLocker is a ransomware programmed in Python, and encrypts files using AES-256, commonly adding the extension ".(CHERNOLOCKER)" or "()". It is based on a similar ransomware kit called "Stampado" that is written by the same author. This ransomware pretends to be WannaCry by using the extension ".WannaCry". In simple terms, the process involves nulling out the known data and reading around the edges of what's left. It is written in Delphi and uses a custom encryption algorithm. Download MRCR or Merry X-Mas is a ransomware family that first appeared in December last year. The Marlboro ransomware was first seen on January 11th, 2017. Planetary is a ransomware family that uses AES-256 to encrypt files, adding the extension ".mira", ".yum", ".Neptune", or ".Pluto" - the latter of which give this ransomware its name. We have seen the following extensions being used by Cry9: "-juccy[a]protonmail.ch", ".id-", ".id-_[].xj5v2", ".id-_r9oj", ".id-x3m", ".id-[]_[].x3m", "-", "-sofialobster[a]protonmail.ch" and ".[wqfhdgpdelcgww4g.onion.to].r2vy6". In order for the decrypter to work you will require both the email you are asked to contact as well as your ID. It uses AES-128 ECB to encrypt files, and adds the extension ".obfuscated", ".encryptedALL", or ".cheetah". The other is private and should be closely guarded. Leia-me!.txt" or "How to decrypt your files.txt" on your system. Globe3 is a ransomware kit that we first discovered at the beginning of 2017. The ransom note asks you to contact "", "" or "". Using a VPN is a great way to protect your internet traffic when you're traveling, but it's not a solution for encrypting your local files. The group behind it primarily attacks servers that have remote desktop services enabled. Rather than just hoping nobody sees them, you can take action by encrypting your important documents. PKI support is less common than support for traditional symmetric algorithms.If you want to share a file with someone and your encryption tool doesn't support PKI, there are other options for sharing. Use this decrypter if your files have been encrypted and renamed to .encrypted with ransom notes named .How_To_Decrypt_Your_Files.txt. Files are encrypted using a customized version of AES, RSA and SHA-512. In order to determine the salt automatically the ransomware has to be running on the system. The ransom note is named "YOUR_FILES_ARE_DEAD.HTA" or "MERRY_I_LOVE_YOU_BRUCE.HTA" and asks victims to contact either "" or "comodosecurity" via the secure mobile messenger Telegram. You may also find that the recipient can use a free, decryption-only tool.What's the Best?Right now, there are two Editors' Choice products in the consumer-accessible encryption field. To use the decrypter you will require a file pair containing both an encrypted file and its non-encrypted original version. If you're not sure, take advantage of the free trial offered by each of these products to get a feel for the different options.Secure Those OriginalsAfter you copy a file into secure storage, or create an encrypted version of it, you absolutely need to wipe the unencrypted original. Files are encrypted using a customized version of AES and RSA. The ransom note "Read Me.txt" asks the victim to contact "". How? Just encrypt it with your private key. It's more of a waveform. When you lock the virtual drive, all the files you put into it are completely inaccessible.Similar to the virtual drive solution, some products store your encrypted data in the cloud. These days, Windows 10 itself has file recovery built in.Some encryption products avoid this problem by encrypting the file in place, literally overwriting it on disk with an encrypted version. Files in its Secured Folders get encrypted automatically when you sign out, and it's one of the few that support public key cryptography.Folder Lock can either encrypt files or simply lock them so nobody can access them. There are plenty of tools available to handle encryption for you. Communications with friends living under an oppressive regime? However, if that is not the same system the malware infection and encryption took place on, make sure to put in the ID as specified in the ransom note. It appends a random 4-character extension to files that is unique to the victim. Due to the file name encryption this can be a bit tricky. GlobeImposter is a Globe copycat that imitates the ransom notes and file extension found in the Globe ransomware kit. Due to a bug in the malware's code, the malware will truncate up to the last 7 bytes from files it encrypts. Encrypted files have the extension *.crypt and the base name of the file is unchanged. This approach requires extreme care, obviously. Download Tor Browser and install it. Many products allow creation of a self-decrypting executable file. However, the company behind this product canned it, switched its focus to business, and even changed its name to Eclypses. The victim is asked to contact the criminals on Telegram @Ims00rybot. GetCrypt is a ransomware spread by the RIG exploit kit, and encrypts victim's files using Salsa20 and RSA-4096. Download The Muhstik Ransomware encrypts files on compromised QNAP systems using AES-256, and adds the extension ".muhstik" to files. If I want to send you a secret document, I simply encrypt it with your public key. Try to use Tor over VPN! The Maze, Sekhmet, and Egregor ransomwares encrypt victim's files using ChaCha8, and append a random extension. Aurora is a ransomware family that encrypts files using XTEA and RSA, and may also be known as "Zorro", "Desu", or "AnimusLocker". SynAck is a ransomware that was first spotted in 2017, and encrypts files using either ECIES and AES-256, or RSA-2048 and AES-256. Stampado is a ransomware kit offered within various hacking communities. It's more common, though, to offer secure deletion as an option. The best way is to simply compare file sizes. Encrypted files get renamed to * and a ransom note named "!!!.txt" can be found on your Desktop. Consumers can no longer benefit from CertainSafe's unique MicroToken Exchange technology—at least, not directly.The other products here also have their merits, of course. Zorab pretends to be a ransomware decryptor, but instead re-encrypts it's victims files with AES-256 and adds the extension ".ZRB" to files. Just deleting it isn't sufficient, even if you bypass the Recycle Bin, because the data still exists on disk, and forensic data recovery utilities can often get it back. Diavol encrypts victim's files and appends the extension ".lock64". To use the decrypter you will require an encrypted file of at least 510 bytes in size as well as its unencrypted version. CheckMail7 encrypt's its victim's files and appends the extension "". No Back DoorsWhen the FBI needed information from the San Bernardino shooter's iPhone, they asked Apple for a back door to get past the encryption. JSWorm 2.0 is a ransomware written in C++ that uses Blowfish to encrypt files, and adds the extension ".[ID-][].JSWORM" to files. It can be found on your Desktop. From your PC to the VPN company's server, all your data is encrypted, and that's a great thing. Please keep in mind that both are case sensitive, so proper capitalization does matter. Download Amnesia2 is a ransomware written in the Delphi programming language that encrypts your files using the AES-128 encryption algorithm. Cry9 is the successor of the CryptON ransomware family that is mostly used for targetted attacks via RDP.

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