



GENESISX
STORAGE



GenesisX Secure & Private Storage

INTRODUCTION

Most cryptocurrencies have an aim - whether it is to just make a currency, to increase security and privacy, or to utilise the coin for other specific purpose. The aim is always the most important aspect because it shows future assignments and plans for the cryptocurrency. It also shows what the coin supports, which makes it possible for individuals who also support such goals to see the importance of being a part of the coin's future - from both technology and a blockchain viewpoint.

WHAT IS CLOUD STORAGE

Cloud storage is very basic in itself. An internet server where you can upload/download and keep files easily accessible online. This is the simplest type of cloud storage. Typically, files are protected by encryption and require user's login details to access the files.

WHAT IS GENESISX SECURE PRIVATE STORAGE (SPS)

Our aim like many others is to increase security and privacy on the block chain but mainly specifically to increase these elements on cloud storage and data storage in general.

We are creating a cloud storage platform with increased security including 2FA (two factor authentications), privacy systems in place so your folders are locked, password protection on files and personal data protection. No personal information is required on sign-up - only information required is email (we hope that isn't too personal).

With all the upcoming technology, newly found hacking possibilities and previously found hacking cases, it is obvious that not just in cloud storage/data storage but in all online platforms holding any kind of data from financial to personal there has to be an increase of privacy and security protection constantly. GenesisX will constantly update security and privacy measures to suit the technology changes and upgrades. Whilst we are in BETA we are still working to catch up and to ensure the database/files are inaccessible and the website is enduring and secured against hacking.

GENESISX AGAINST ILLEGAL ACTIVITIES

We are 100% against illegal activity, any documents on our server which is illegal will be 1. Deleted, 2. Your account, MAC address and IP address will be blocked from our system. If the case pursues and authorities get involved we will give up information of parties committing the crime. So, the motto of the above is use our facility to safely secure files but any illegal activity expects to be caught and possibly prosecuted. We wouldn't access your files however if authorities access your files because illegal materials have been traced then this is your problem. It will never be GenesisX that finds this material. Abide by the law.



Having a zero personal information (ZPI) policy doesn't support illegal activity in anyway shape or form. ZPI is a feature offered on the basis it is used to find a route to complete privacy which is never offered except on personal/private machines and it is felt that this should also be optional on cloud/web-based systems. For example, on your home PC (unless you have a virus) your personal data and files are completely protected and cannot be accessed. You are anonymous and with you being anonymous your files are in the same situation - we want files to be this secure cloud based.

GenesisX Storage – your data protected / your anonymity + increased security/privacy measures in place = Complete protection

PAYING FOR GENESISX SPS

The only payment we accept for GenesisX SPS (Secure Private Storage) is XGS.. our own currency. This again promotes privacy and anonymity. Private information and personal data cannot be accessed when paying via XGS. The only information you are giving away which will be available in the explorer and to us is your GenesisX payment address. We will not at any point be accepting FIAT as payment – it is possible other cryptocurrencies will be payable in the future but as time of writing it is XGS only. When you pay for the package you have decided to proceed with, you will automatically get given the package within 5minutes. Our systems are automated. We will never accept FIAT as payment as that goes against what we believe (regarding privacy).

CURRENT STORAGE SERVER

AWS S3 Storage (the storage system we currently use) is incredibly secure with AES-256 (Advanced Encryption Standard) extension in place. This extension was adopted by the U.S. government and is now available worldwide (hence why we use it) and is more advanced than DES (Data Encryption standard). AES is a symmetric-key algorithm which means that the same key is used for both encrypting and decrypting the data. All key lengths of AES are sufficient to protect classified information up to secret level. However, 256 (longest key length and the one we are using) protects top secret material. Is this enough protection for you? AES0256 is also used amongst SSL/TLS across the internet. All this information is pretty basic, if you truly want to understand AES you can find a lot of research and case studies online. The time to brute force a AES-256 key is calculated at... 77,000,000,000,000,000,000,000 years. We will always keep this server, but we will offer options when more servers are released to switch over. On our system we can have multiple storage systems connected.

FUTURE STORAGE PLANS

Even though AWS S3 storage is secure enough we want our own dedicated server holding the files which is even more secure (lets add another 100 years to the figures above). On a serious note, the system we are working on is going to trace the blockchain and designate a block to the user and then then anything the user uploads will be able to find on a folder explorer. This will be an optional



feature and will take time to develop but this creates a better possibility to file the folders systematically and gives a good solid link to the block chain. Again there will be strong security on the folder explorer and will require a strong password which is created by the user. Plus if we own the server we have more control over the files on it and integrating further features to provide security and privacy.

There are plans underway to integrate XGS wallet into the storage platform so not only can users go on our storage system to store personal/private data. You will also be able to store XGS in a wallet on XGS SPS as well as send, withdraw and deposit. This will again require more security to access the wallet and 2FA is going to be added also. We are looking to add so many features and not make this just about storage - imagine a platform that covers many areas of the Internet to increase privacy and security. That's Us. GenesisX.

STORAGE CONNECTION TO THE WALLET

Before Q1/2 2019 (this will probably be completed much sooner) we are planning to integrate a file upload system to the wallet so when sending a transaction there will be an option to attach a file to send to the other user's wallet. There will be a minimum transaction quantity required but this system will literally bring file sharing on to the blockchain. The file will be linked to the transaction and when sending the file, you will have to notify the user about the randomly generated password (which will appear when sent). A lot of thought has gone into this and this benefits the user in multiple ways. This file will 1. File secured on our server 2. Will require a password to access 3. There will be a record and proof of sending and finally 4. You will have an option to delete the file from the server BUT there will always be a record saying that a file was sent.

THE ABOVE INFORMATION IN BULLET POINTS:

- GenesisX plans to be the most secure and private cloud storage / data storage solution
- We don't require as much information and zero personal information on sign-up.
- Security: 2FA, Account Folder Locking, Password Protection on Files, AES-256 Encrypt
- Privacy: No personal details required, XGS payment (untraceable)
- AWS Encrypted server (originally 128-bit)
- Extra Encryption Added (upgraded to 256-bit)
- There are other Encryption methods we will be looking into.
- Upload/Download Speed upgraded
- Future plans to build own server - testing already in place
- We can have multiple storage servers on system - will always keep AWS
- Plans to link storage system to blockchain system to have a thorough systematic method of managing and storing files.
- Plans to build a folder/file explorer with integrated password method of accessing files. Possibly having a 2FA method option as well so the user must give the other user the code at time of access.
- Connecting file sharing to the block chain - connecting to the wallet



GENESISX SPS STORAGE – FEATURES:

MAIN TABS:

There are 5 tabs on the left column as follows:

- File Manager
- Recent Files
- All Files
- Trash Can
- Purchase/Upgrade

This is how you access your files and you can create sub folders in the file manager so you can store your images, documents and whatever file you want logically.

VIEWING THE FILE:

Information will be shown such as:


- Uploaded by
- Timestamp of Upload
- Filesize
- Permissions
- Sharing (whether the file is private OR accessible by other people)

When you click on the file it will open a file manager page. Here you can manage the file and will give you four sharing options as follows:

- Image page link – gives access to users to view the file on GenesisX
- HTML code – for websites
- Forum code – for forums
- Direct link – so the person can directly download/view the file

Next to these options there will also be an email option where you can email the file.

EXAMPLES ON NEXT PAGE

GENESIS STORAGE

- File Manager
- Recent Files
- All Files (2)
- Trash Can
- Purchase



ADMIN USER Administrator

by DefaultFName

Uploaded By:	Administrator
Uploaded:	28/06/2018 21:31:05
Filesize:	216.69 KB
Permissions:	View
Sharing:	Private File - Only available via your account, or via a generated sharing url.

Sharing Code Email

Image Page Link

<https://genesisx.net/...>

HTML Code

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Forum Code

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[url]https://genesisx.net/...[/url]
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Direct Link

<https://genesisx.net/...>


UPLOADING FILES:

When uploading files you have two options:

- Upload from your computer (local upload)
- Remote URL upload (from another website/server)

Example Below:

File Upload Remote Url Upload



DRAG & DROP FILES HERE OR CLICK TO BROWSE...

OPTIONS | MAX FILE SIZE: 5.00 GB.



And whilst, we are at it (for hackers or people who want to know what happens when you are being naughty and trying to access a file you shouldn't be):



This is Revision 1 of our Mini Whitepaper for XGS SPS. Hope you enjoyed the read.