

SHIELD PROTOCOL

Light Paper v1

Enable Security and Keep your secrets on Blockchain



www.shieldprotocol.org



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SHIELD is a Second Layer Security Platform based on the **Binance Smart Chain**.



Shield is a Two factor authentication that would be on a server-less p2p architecture on top of blockchain where every log would be recorded on to a decentralised ledger for transparency and none of the data that can help in identifying an user would be collected in the application, which would help users in terms of privacy and anonymity and by using blockchain the whole system would be tamper proof.

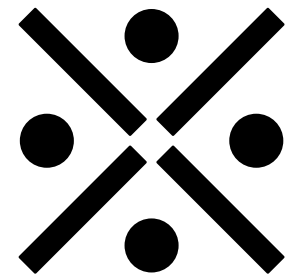
Shield 2FA is not owned by any single node in the network. Peers in the network can be any single computer which is connected to the internet.

Need for SHIELD 2FA on blockchain

In every centralised apps today we are facing issues that are concerned with our data. There have been a number of data breaches despite many secure setups companies are using, there is always a hole in the centralised system that gives way for hackers to enter and perform breaches. Even sometimes if a business uses a very safe and secure system then also breaches happen due to internal leakages. Data breaches are on rise and we can see number of Data on dark web being posted after hacks including username and password, only people using 2FA get away from their login been used by hackers but still end up leaking their personal email and password that they might have used in any other account with no 2FA.

Shield 2FA is trying to eliminate the use of personal details for login and even eliminating centralised storage and replacing it with cross chain blockchain, so a system which will not take any personal detail or use any centralised storage but will still solve the purpose and will showcase the actual use case of blockchain.

SHIELD PROTOCOL FEATURES



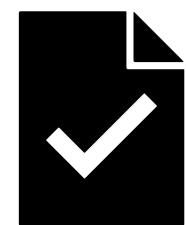
Fault Tolerant:

As there is no single node controlling the data transaction and data records in the P2P decentralised network, there is no single point of failures in SHIELD 2FA. Its distributed nature supports this very strongly.



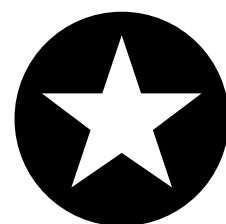
No Internet Censorship:

It Controls and prevents Internet Censorship violation as there is no central controlling authority owning this SHIELD network. So if someone tries to manipulate with data sets in their favor it is practically not possible. Any government authority if it tries to block any DApps, it will not be possible as the app doesn't lie on any particular I.P address being decentralised in nature.



Enhanced Trust On The System:

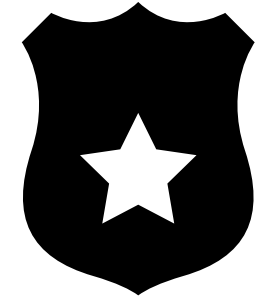
As no single entity owns the apps it helps users to have confidence and trust on the SHIELD 2FA system against data theft and manipulation.



Built on Binance Smart Chain:

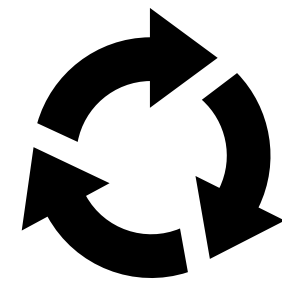
Shield 2fa is being built on BSC.

SHIELD PROTOCOL FEATURES



Strong Encryption:

AES-256 bit encryption with PBKDF2 SHA-256 has been implemented to encrypt data before backup.



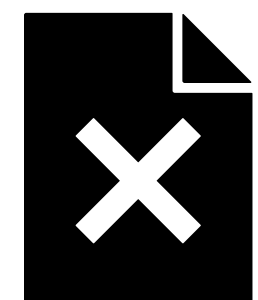
Back up on Blockchain:

No centralised storage infrastructure used to store the backup as no centralised storage is safe against attacks



Staking rewards:

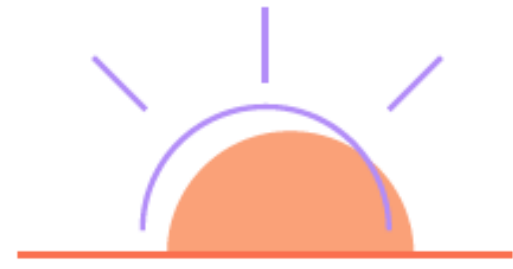
Users can stake and earn Shield tokens though staking available on website and even in app



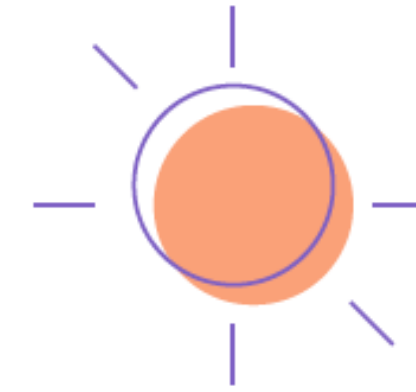
No Data Collected:

Shield does not collect your personal data like Email, Mobile number or name. Leaving your privacy to you unlike other 2FA apps.

Why 2FA & Authentication Factors

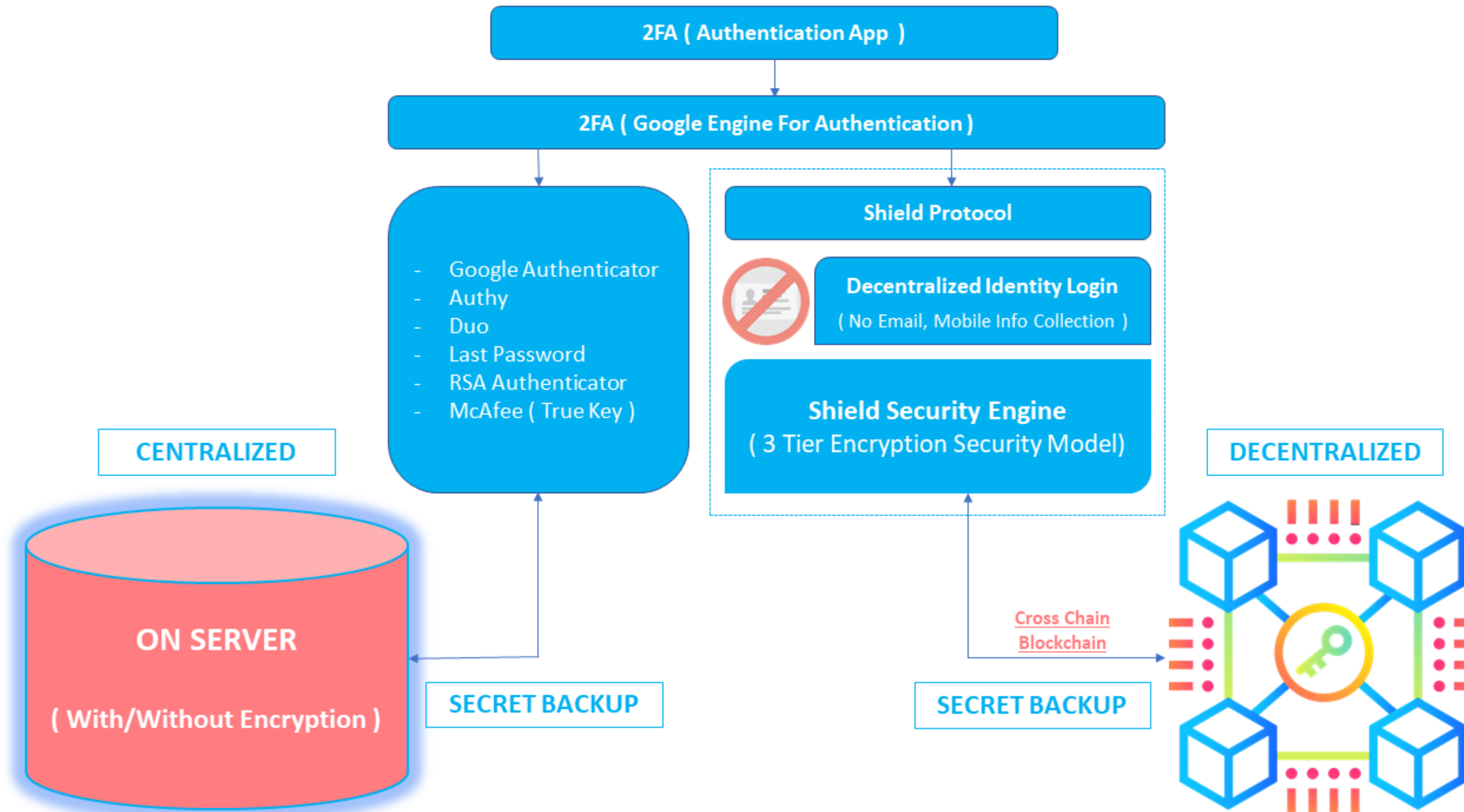


Passwords Are not Good Enough, Most People Are Bad With Their Password Concepts.
Rise In Cyber Crime Requires Strong Extra Layer Of Security.

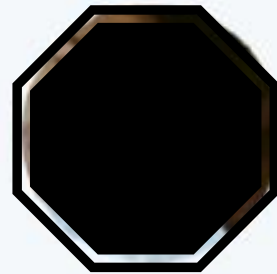


Something You **KNOW** (Passwords, Security Questions)
Something You **HAVE**(Mobile, Physical Device)
Something You **ARE**(Retina, Fingerprint, Face, Voice)

How we are different



Example of how 2FA comes handy

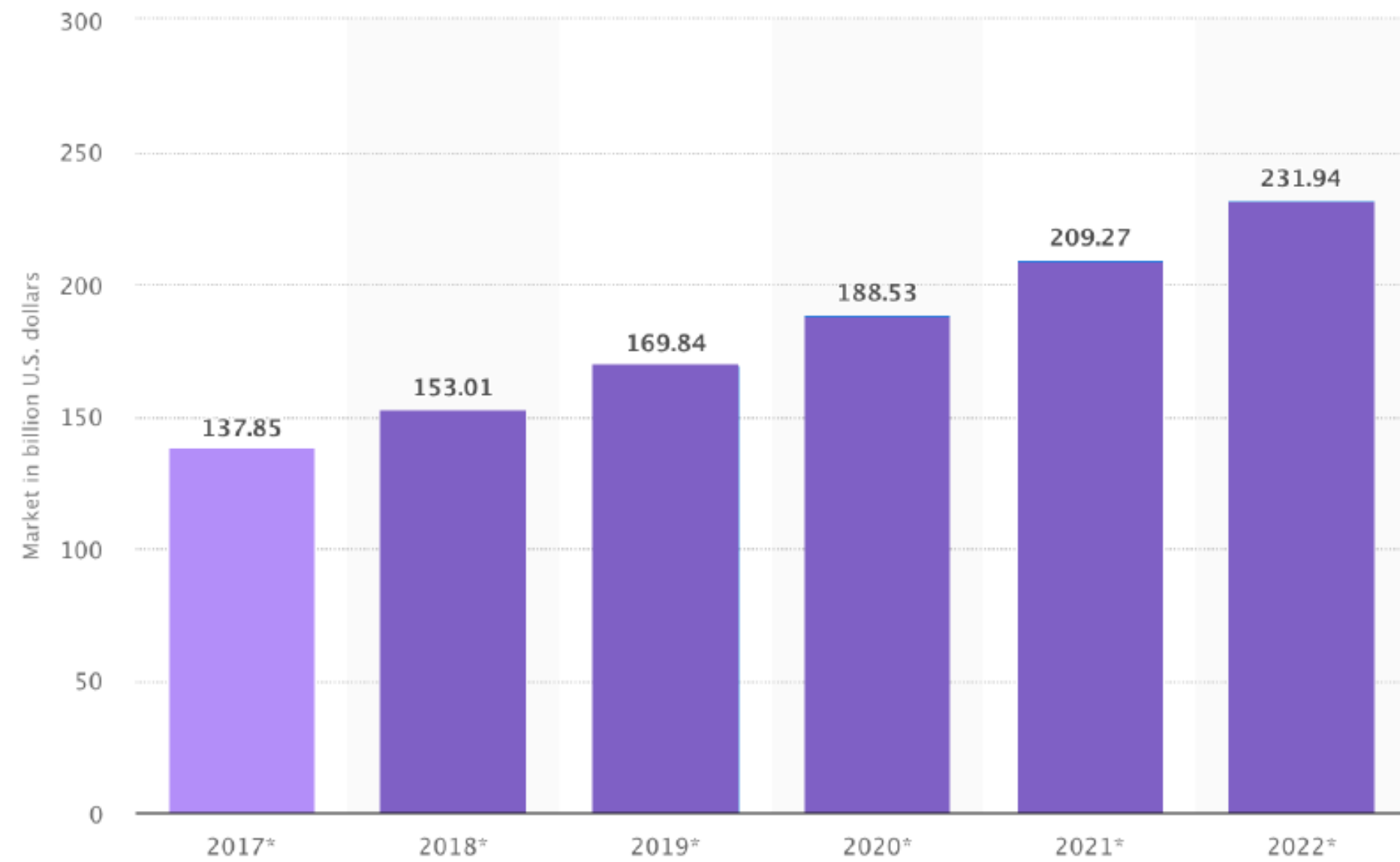


F [redacted] · Oct 9

An unseen [#database](#) leak which contains over 128,000 compromised [#Spotify](#), [#Twitter](#), [#Pandora](#) and [#Instagram](#) accounts. All e-mails and passwords are stored in plain text. Most accounts restrict you from logging in due to [#2FA](#), but 80% of the logins work! files.fm/u/5e276rye

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bstechow@gmail.com:11pepper5::Pandora
maurice.goodman91@yahoo.com:moeg16::Pandora
cindylee0311@gmail.com:iloveyou3845::Twitter
smushmortion@yahoo.com:jv000187::Pandora
anttila.pekka@gmail.com:Toikkanen12::Twitter
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seankrohn@gmail.com:Seethrux1:Family- zefmag - US - 5/15/17:Spotify
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jerynnheng@hotmail.com:peiyun90::Instagram
anjasrp@gmail.com:pallawa2::Twitter
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Market Size



Cyber security market is estimated to reach \$231 Billion by 2022.



4,046,426,725

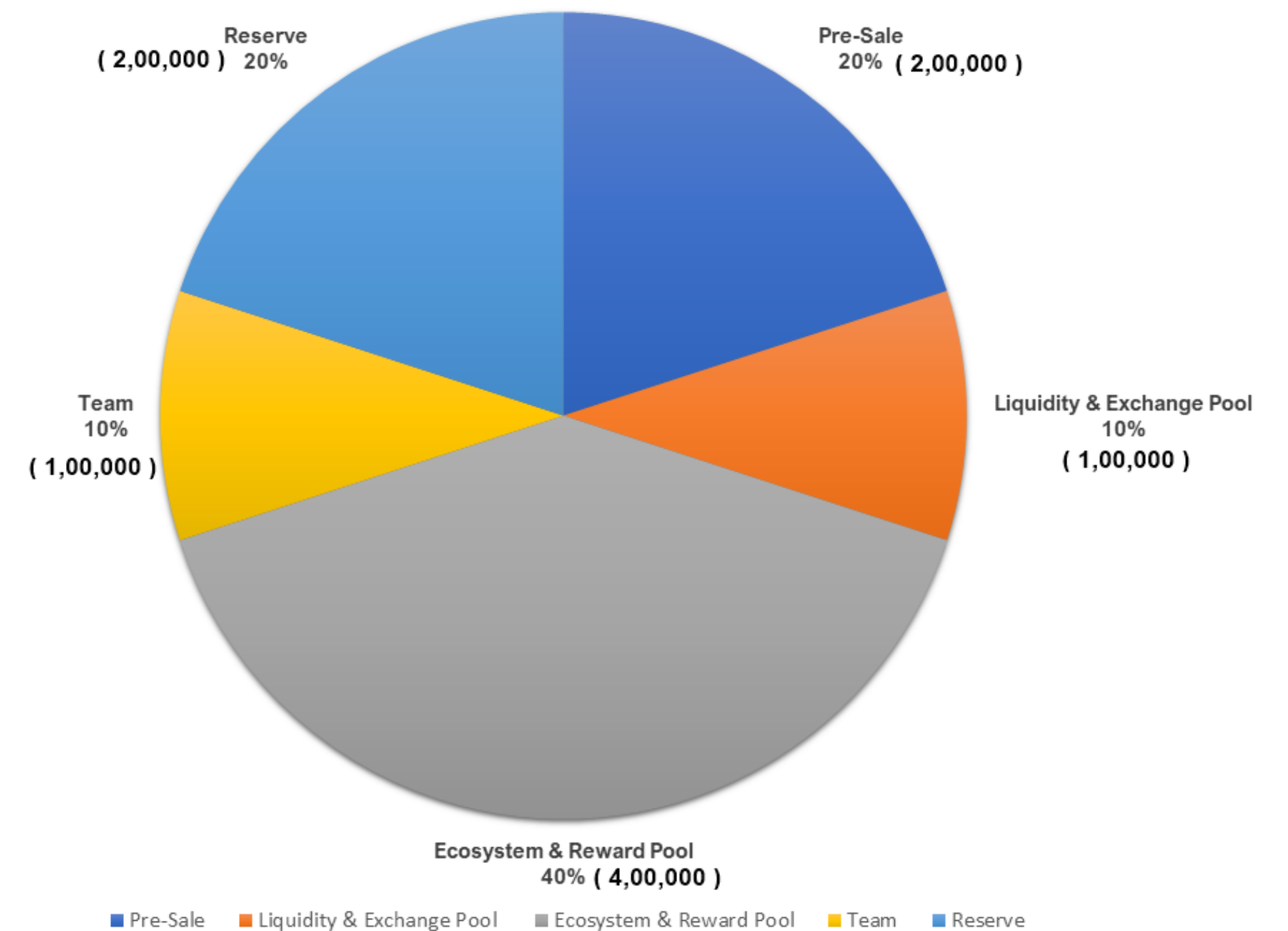
The estimated amount of users in the internet are 4,046,426,725 and every user needs a 2FA authenticator.

Competitor Comparison

	SHIELD	AUTHY	GOOGLE Authenticator
Offline Mode	Yes	Yes	Yes
Log In	Decentralised login	Personal Data	NA
Apps	Yes	Yes	Yes
Extensions	Yes	Yes	Yes
Backup	Blockchain	Centralised	NA
Personal details for backup	Decentralised login, No Email or Number	Yes, Email or Mobile Number	NA
Encryption	Yes, 3-TIER	Yes	NA
Staking Rewards	Yes	No	No
Cryptocurrency Support	Yes	No	No
Crypto Wallet	Yes	No	No

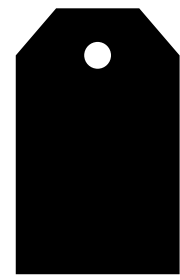
Token Metrics

Total Supply	10,00,000	0
Public Sale	2,00,000	20%
Liquidity/Exchange Market Pool	1,00,000	10%
Ecosystem and Reward Pool	4,00,000	40%
Team	1,00,000	10%
Reserve	2,00,000	20%



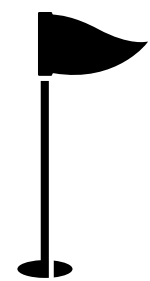
Shield Token Utility

Key Utilities:-



Fees:-

Use your shield token to pay for blockchain usage fees. Securing your secrets will come with small fees that can be paid in Shield token and more add on features on Shield app can be paid using token.



Staking Rewards:-

Shield users can stake their tokens to earn rewards in shield token or in future partner tokens.



Bonus:-

Shield token holders will be rewarded under different reward programs that will be launched time to time.

Roadmap

Q1 - 2021

Community building

BEP20 Smart Contract Deployment

BEP20 Smart Contract Audit

SHIELD Token (Pre-Sale)

Product Launch - (Phase 1)

Mobile apps - iOS, Android

SHIELD Wallet (Phase 1)

DEX Listing

Marketing & Partnership Campaigns

Q2 - 2021

Staking Program

Liquidity Pools

SHIELD Wallet (Phase 2)

More Exchange Listings & Partnership

Binance Smart Chain Mainnet

Shield App features Integration & Usage on BSC (Phase 2)

In-App Staking Program for Shield Token

Q3 - 2021

Desktop Apps - Windows & MAC OS

Browser Widget launch

Desktop app for Linux

In-app Staking Program for more tokens.

Aggressive Social Marketing Campaign

More Pools addition

Creating more telegram groups with native language support.

Q4 - 2021

Second (another) Security Tool addition in app

Shield features Integration & usage on Polkadot & Other Chains.

Forming partnerships with key industry players.

Hosting virtual meetups for awareness.

SHIELD SWAP

Marketing & Partnership Campaigns



THANK YOU

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