DOCUSHIELD

FOREVER - SECURE

WHITEPAPER

ABSTRACT

It seems like more and more of the most important pieces of our lives have shifted to a digital format. What used to live inside a folder, inside a safe, inside a closet, inside your house (ie. the deeds to your home/automobile, birth certificate, legal documents etc) are now making their way to your computer, and then living on a cloud somewhere (best case scenario)

Why? Ease of accessibility, the ability to keep them out of harm's way, and well... a thief in the night is a lot more likely to break into your safe than your hard drive or the cloud.

We'll call that advancement in document storage technology "Doc2.0" The problem? Doc2.0 still has its imperfections, such as server malfunctions, data centralization, and security vulnerabilities.
Although your data may seem safe, there are still people at these centralized data warehouses that can and do take advantage of their access levels to prey on the unsuspecting.

DOC 3.0

With all of these uncertainties, whos to say we're not seconds away from losing it all?

But now, as we shift towards new technology such as cryptography, blockchain, advanced encryption methods and not to mention; data and governance decentralization, there are now better, cheaper and more secure ways of doing things....

That's where we come in. ***Our goal is to achieve mainstream onboarding and adoption*** by focusing on ease of use without the need for any prior knowledge of the blockchain world, security protocols or secret keys. Now you can easily keep what is important to you as private and secure as humanly possible. Hackers make a living exploiting and gaining access to all your precious data. On top of that there's those monthly fees you pay simply to maintain access to what is rightfully yours. ***Which brings us here.. the next evolutionary move in document data security...Doc3.0***

WHAT IS DOCUSHIELD AND WHY SHOULD I CARE?

Docushield is a decentralized platform that runs on the Kadena Blockchain. Kadena, known for its unlimited scalability and uber secure programming language “Pact”, will be the chain of the future. Kadena allows for interoperability between all things online and offline, on chain and off chain, and will become the backbone of the metaverse that awaits us...

To simplify things (because we’re gonna complicate them a bit here in the next few sections) Docushield is taking what you need to keep private and secure, and using the most advanced forms of coding, encryption, smart contracts & data scalability to deliver a solution that is easy for everyone to use, impossible to hack, cost effective and will ensure that your documents are forever secure and forever accessible..
And we really do mean FOREVER.

This means you can stop worrying about access and vulnerabilities, and start worrying about real life stuff, like your kids, your dog, and what to eat for breakfast tomorrow.

HOW DOES IT WORK?

For the end user it's pretty simple. You download the app (IOS/Android/Web) and either create a new account (wallet) or login using 2FA (two factor authentication) or your private keys. what is 2fa?

You then purchase a bundle of our $DOC token, which is the currency that pays for transaction fees or simply put: credits you can purchase and use to secure your data.

Once the credits are provided, your document will go through an additional 3 layers of encryption as they make their way to their new permanent home, on the blockchain).

The app will retrieve these documents whenever you need them and can be seen by you and only you, to do as you please. We can't even see them!

WHAT MAKES YOU DIFFERENT FROM THE REST?

We're the first of our kind when it comes to these 3 to 4 (depending on your settings) layers of file encryption. The first to utilize PACT and the Kadena Blockchain, and the only one to do this all in a decentralized manner. Meaning no single person or entity has control of your data, our network, or what happens to Docushield in the future.

We're an organization that is bound by smart contracts to keep your data secure. Our end goal is to be completely governed by the community needs and desires through the power of voting before making any changes to the infrastructure.

Our vow of transparency will not only open our books to the public, but ensure that we follow the guidelines set in the vow or forfeit the right to any and all revenue access until criteria is met. That means that all of the incoming and outgoing revenue will be transparent and visible to all community members and percentages of revenue allocations are set in the smart contract and can not be changed unless agreed upon by the community.

All this done autonomously through smart contracts! Don't you just love the future?

WHAT IS KADENA AND WHY IS DOCUSHIELD RUNNING ON IT?

Kadena is a truly decentralized Proof of Work blockchain that is infinitely scalable, environmentally friendly, and is home to the most secure programming language the web has yet to see: PACT.

Utilizing this language, Docushield will be able to utilize on chain encryption methods that are not available anywhere else, all while accessing outside data for keypair validation to off chain and cross chain networks. Meaning you will be able to transfer and maintain your documents wherever you like, outside of Docushield if necessary; and not sacrifice the integrity of your security and privacy.

Kadena will also open the door for enterprise storage solutions, layer 2 privacy integration, onchain database management, and multisig requirements for transaction approvals, upgradable smart contracts, and decentralized governance when making protocol changes.

Security on your end, transparency on ours.

DOCUSHIELD APP

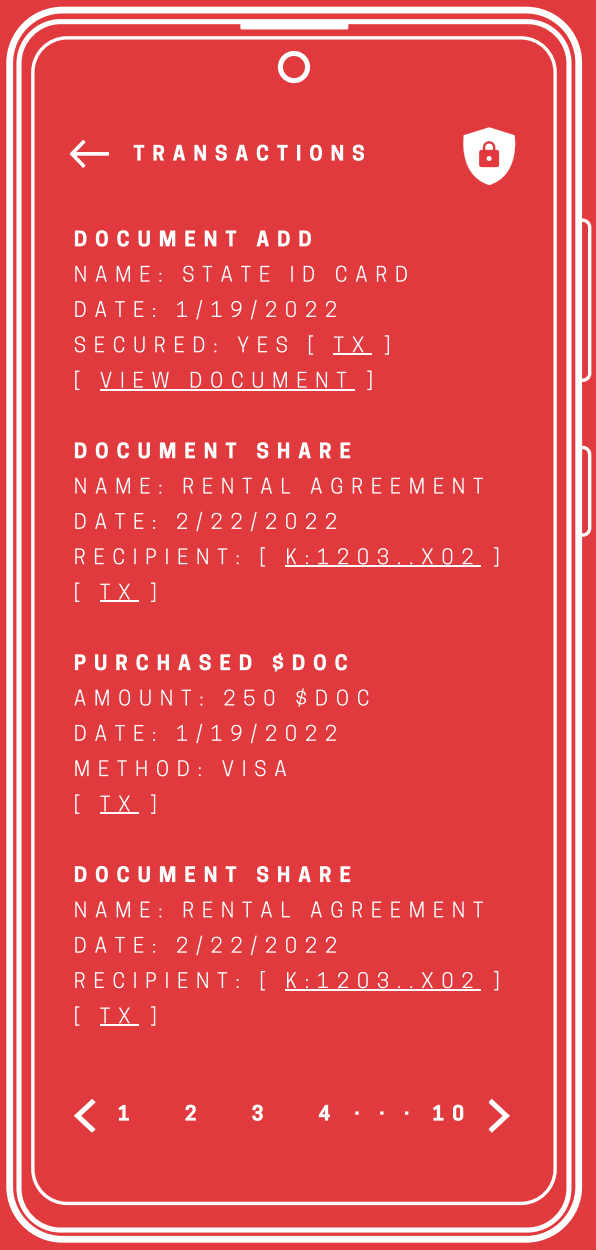
OVERVIEW

Our vision for the Docushield app is to create a mobile first browser supported android/ios/web application that utilizes a dockerized mobile app, hosted on flux, coded with Flutter.js and PACT smart contracts.

We aim to simplify the file security process and have a minimalist user interface that would not intimidate the end user who may or not be tech savvy. Please see an outline of the general user workflow below:

1. **User logs into account after initial signup with 2FA or Private Key access.**
2. **User uploads document and details**
3. **Payment for transaction (based on file size) is completed using onramp such as Simplex to buy $doc.**
4. **AES encryption is done on app and can only decrypt in app with matching wallet ID**
5. **Decryption key sent to private IPFS (community run) and the secured file sent to public IPFS server.**
6. **NFT created w/Metadata including doc details and IPFS IDs**
7. **NFT placed in user wallet as “document” using the NFT metadata to display details**
8. **On request of user file retrieval NFT grants access to key and document IDS**
9. **Document downloaded and decryption is run in app**
10. **User can view in app save to local device or share with another user.**
11. **If shared with other app users the app will generate a duplicate of decrypted file**
12. **Process starts again at step 3**


CREATE ACCOUNT
GENERAL
ANONYMOUS
WHAT'S THE DIFFERENCE?
EXISTING USERS LOGIN HERE


TRANSACTIONS
DOCUMENT ADD
NAME: STATE ID CARD
DATE: 1/19/2022
SECURED: YES [TX]
[VIEW DOCUMENT]
DOCUMENT SHARE
NAME: RENTAL AGREEMENT
DATE: 2/22/2022
RECIPIENT: [K:1203..X02]
[TX]
PURCHASED $DOC
AMOUNT: 250 $DOC
DATE: 1/19/2022
METHOD: VISA
[TX]
DOCUMENT SHARE
NAME: RENTAL AGREEMENT
DATE: 2/22/2022
RECIPIENT: [K:1203..X02]
[TX]
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ACCOUNT TYPES

ANONYMOUS //
User can create anonymous accounts only recoverable with private keys. They will set up a local account pin/pw for access through their mobile device or browser.

REGISTERED //
User will provide account details such as email, phone, and set up 2FA. Private keys will be generated and provided but the user can also contact Docushield for account recovery if ever locked out.

ENTERPRISE //
Our enterprise solution will not be a part of the initial launch, but in v2.

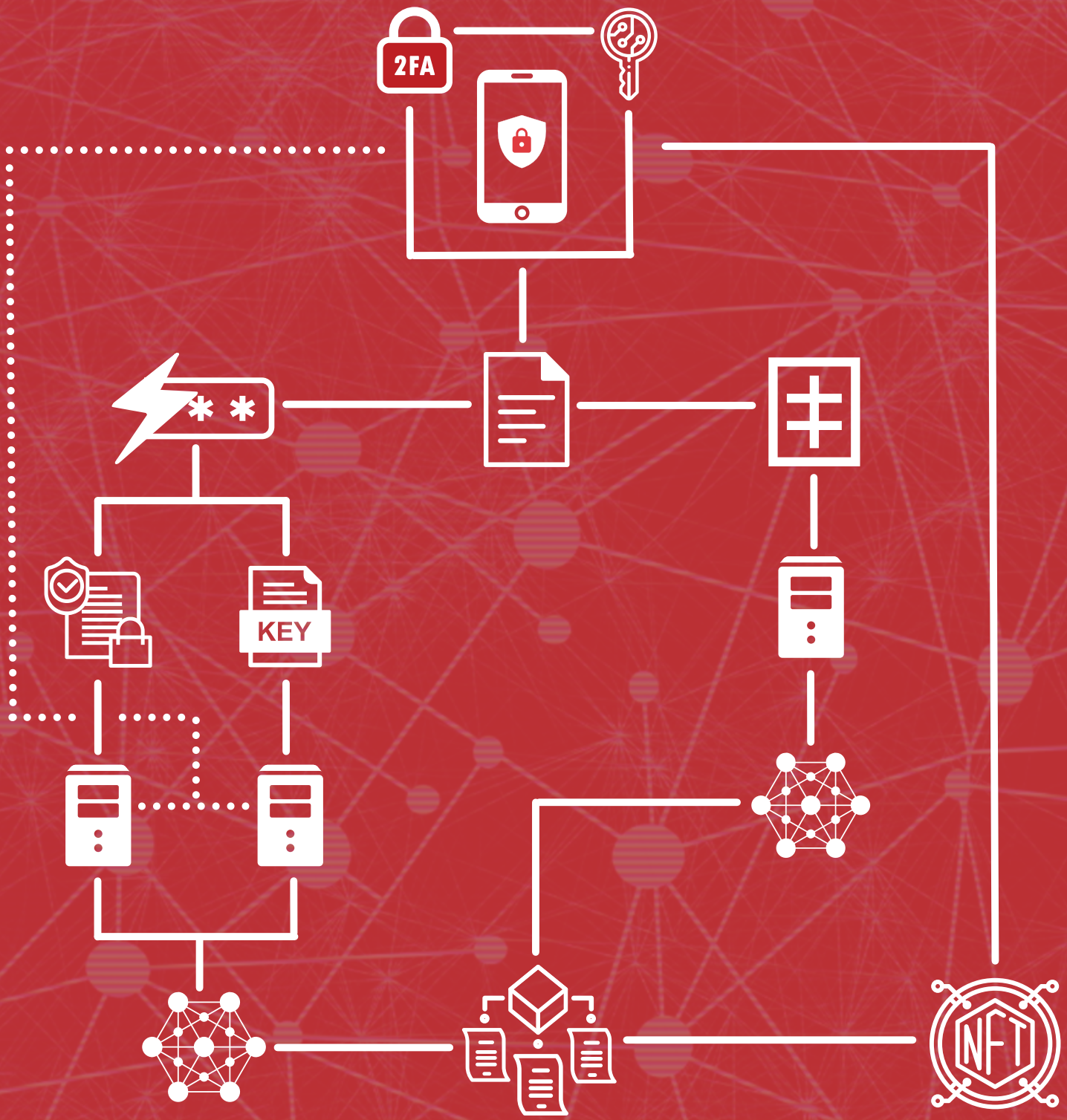
ACCOUNTS

ACCOUNT RECOVERY

ANONYMOUS //
Account recovery only available through private keys/seed phrase

REGISTERED //
2FA for login or password access. User may also contact Docushield support for assistance in account recovery but must have undergone KYC.

ENTERPRISE //
Our enterprise solution will not be a part of the initial launch, but in v2.


2FA
KEY
NFT

ENCRYPTION

AES 256 Bit Military Grade encryption/decryption executed in the app environment using Flutter > Dart.

IPFS Transport encryption while transfering data in network

API access authentication and authorization

Node.js crypto module

STORAGE

PRIVATE IFPS:
Docushield will utilize three separate IPFS networks to segment storage of sensitive data.

ACL Dynamic Access Control:
Layered on NFT for user specific access to documents.

All contracts ran during the NFT generation workflow will be hosted on the Kuro private blockchain.

NFT ACCESS

An NFT will be generated to act as an access key for the secured document uploaded by the user and stored in the user app/wallet using ACL access control methods for document retrieval.

Our returned NFT not only stores the document metadata to be read by the app but also allows for the use of dynamic access control techniques utilizing an additional layered solution. (we're still evaluating our options)

The "share" option provided to the original document holder will duplicate a copy of the document and a new token (NFT) will be generated and sent to the shared user. They will not receive the actual original NFT or encrypted document.

CODE

PACT will be our language used to create our smart contracts running on Kadena and Flutter will be the language used to create the mobile application.

Additional API's or layered solutions may be utilized if necessary and do not compromise the level of security.

PAYMENTS

We will utilize the fiat on ramping solution provided by Simplex for credit card transactions

We will also utilize the wallet functionality for the purchase or "swap" of the $DOC token from $KDA. Our initial application will only support $KDA and $DOC.

TOKENOMICS

TOTAL SUPPLY
1,000,000,000

RELEASED AT TOKEN LAUNCH
500,000,000

RELEASED YEARLY FOR 10 YEARS
50,000,000

RELEASED AT TOKEN LAUNCH

100 MILLION
SEED FUNDING

100 MILLION
IDO LAUNCH

150 MILLION
LIQUIDITY

NO TEAM TOKENS+
20% OF FUNDING
TOWARDS PROVIDING
DEX LIQUIDITY

50 MILLION TO
ECOSYSTEM PARTNERS
IN NODE OPS

25 MILLION
INTERNAL NODES

25 MILLION
RESERVES VAULT

25 MILLION
REWARDS VAULT

25 MILLION
BUG BOUNTYS
COMMUNITY
& AIR DROPS

ROADMAP2022

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TRANSPARENCY VOW

Members of the DAO will be invited to quarterly forums where we open the books and review the financials and performance over the past three months. Any changes or new ideas can be proposed by members and then later voted on by the DAO members. We feel that as a company that is being trusted as custodians of your most private documents and records, we should return that same trust and open up ours.

GOVERNANCE

After the launch of v1 we will begin to assemble a DAO for protocol updates and changes consisting of node operators, advisors, Kadena ecosystem leads and team members. We will also include select community members who have made contributions to the Kadena ecosystem and Docushield project.

ABOUT

Docushield is a blockchain technology company based in Orange County, CA. Our team consists of self starters, entrepreneurs, web developers and blockchain maximalists. With over 7 years in the blockchain space, we've been able to witness a revolution first-hand. Now's the time for us to play our role in it!

TEAM

Adrian Marquez: CEO / Architect
Michael Chavez: Community Manager
Jules Marion: Product Matketing
Kaleena Leuta: Administrative Coordinator
Abdur Hehman: Fullstack Developer

THANK YOU

We appreciate your time and due dilligence. Please feel free to reach out to us at anytime!

CONTACT US

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