



ADMIN DASHBOARD OVERVIEW & USER GUIDE

Tristate Union Benefits

Admin Dashboard

[Get Started >](#)

LIMITED PARTNER DASHBOARD OVERVIEW

Limited Partners are able to view:

- Financials
- Capital Account Statements
- Distribution Letters
- K1 Statements
- Capital Calls
- Newsletter
- Fund Communications



Sign in to your account



Sign in with Google

or continue with email

Email Address

your@email.com

Password

[Password forgotten?](#)

[Sign In](#)

Do not have an account yet? [Sign Up](#)



[Admin](#)

[Users](#)

[Unions](#)

Admin

Users

1991

Active Customers

1417

Inactive

567

L831 Members

1790

COBA Members

193

[Back to Dashboard](#)



Chris

Add User

Admin

C



Dashboard

Settings

Add Union

Create User

User Search

Reports

Outgoing NY State

Admin

Upload Documents

Create New User

UID:

1818181

First Name:

test

Last Name:

user2

Create User

User created successfully!

Edit User



Chris

Search

Admin

C

Dashboard

Settings

Add Union

Create User

User Search

Reports

Outgoing NY State

Admin

Upload Documents

test user2

Search users by User ID...

Select Active Status

Select Union

Last Name	First Name	User ID	Union	Current Total Premium	Status	Actions
user2	test	1818181		0	Inactive	View user

[Collapse Sidebar](#)



Chris

Search

Admin

C



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Upload Documents

PAYFILE_RAW

PAYFILE_EXTRACTED

MISMATCHED_PREMIUMS

USERS_NOT_IN_DATABASE

ACTIVE_USERS_MISSING

DEDUCTION_STATUS_CHANGES

PREMIUM_MISMATCHES_ALL

PREMIUM_HISTORY_ALL

■2024

■2025

■2026

■2027

■2028

■2029

■2030

■2031

■2032

■2033

■2034

■2035

■January

■February

■March

■April

■May

■June

■July

■August

■September

■October

■November

■December

Clear selected months

Document Queue:

L831

Toggle ▲

COBA

Toggle ▲

MISC

Toggle ▲



TUBC Document Hub



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Upload Documents

PAYFILE_RAW

PAYFILE_EXTRACTED

MISMATCHED_PREMIUMS

USERS_NOT_IN_DATABASE

ACTIVE_USERS_MISSING

DEDUCTION_STATUS_CHANGES

PREMIUM_MISMATCHES_ALL

PREMIUM_HISTORY_ALL

✓2024

■2025

■2026

■2027

■2028

■2029

■2030

■2031

■2032

■2033

■2034

■2035

■January

■February

✓March

■April

■May

■June

■July

■August

■September

■October

■November

■December

Clear selected months

✓PAYFILE_EXTRACTED

Selected Subcategories:

✓PAYFILE_EXTRACTED

Document Queue:

L831

Toggle ▾

SubCategory: PAYFILE_EXTRACTED

Decrypted image title: L831 WE 03-15-24 PAYFILE_EXTRACTED.xlsx

Download

SubCategory: PAYFILE_EXTRACTED

Decrypted image title: L831 BW 03-15-24 PAYFILE_EXTRACTED.xlsx

Collapse Sidebar



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Collapse Sidebar

SubCategory: PAYFILE_EXTRACTED

Decrypted image title: L831 WE 03-08-24 PAYFILE_EXTRACTED.xlsx

Download

SubCategory: PAYFILE_EXTRACTED

Decrypted image title: L831 BW 03-01-24 PAYFILE_EXTRACTED.xlsx

Download

SubCategory: PAYFILE_EXTRACTED

Decrypted image title: L831 WE 03-01-24 PAYFILE_EXTRACTED.xlsx

Download

COBA

Toggle ▾

SubCategory: PAYFILE_EXTRACTED

Decrypted data for ID :

Document title: COBA BW 03-15-24 PAYFILE_EXTRACTED.xlsx

Download

SubCategory: PAYFILE_EXTRACTED

Decrypted data for ID :

Document title: COBA BW 03-01-24 PAYFILE_EXTRACTED.xlsx

Download



Chris

Outgoing

Admin

C



- Dashboard
- Settings
- Add Union
- Create User
- User Search
- Reports
- Outgoing NY State

 Admin Upload Documents

Weekly Changes:

Changes Week of 2024-03-14

User ID: 1070427, Current Total Premium: 14.66, Union: L831, Created within a week: False, Premium Change
User ID: 1077752, Current Total Premium: 73.85, Union: COBA, Created within a week: False, Premium Change
User ID: 1478869, Current Total Premium: 21.81, Union: L831, Created within a week: False, Premium Change
User ID: 1601146, Current Total Premium: 8.31, Union: COBA, Created within a week: False, Premium Change
User ID: 1625106, Current Total Premium: 44.66, Union: COBA, Created within a week: False, Premium Change
User ID: 1700610, Current Total Premium: 26.65, Union: COBA, Created within a week: False, Premium Change
User ID: 1700610, Current Total Premium: 26.65, Union: COBA, Status: True, Status Change
User ID: 1625106, Current Total Premium: 44.66, Union: COBA, Status: True, Status Change
User ID: 1601146, Current Total Premium: 8.31, Union: COBA, Status: True, Status Change
User ID: 1478869, Current Total Premium: 21.81, Union: L831, Status: True, Status Change
User ID: 1077752, Current Total Premium: 73.85, Union: COBA, Status: True, Status Change
User ID: 1070427, Current Total Premium: 14.66, Union: L831, Status: True, Status Change

NY Output Files Que:

Changes Week of 2024-03-14

1070427	F45927001070427000002024-03-14827C2024-03-14605BM68419999-12-310000000001466
1077752	F45927001077752000002024-03-14721C2024-03-14605BM70449999-12-310000000007385
1478869	F45927001478869000002024-03-14827C2024-03-14605BM68419999-12-310000000002181
1601146	F45927001601146000002024-03-14721C2024-03-14605BM70449999-12-310000000000831
1625106	F45927001625106000002024-03-14721C2024-03-14605BM70449999-12-310000000004466
1700610	F45927001700610000002024-03-14721C2024-03-14605BM70449999-12-310000000002665
1700610	F45927001700610000002024-03-147211C2024-03-14605BM70449999-12-310000000002665
1625106	F45927001625106000002024-03-147211C2024-03-14605BM70449999-12-310000000004466
1601146	F45927001601146000002024-03-147211C2024-03-14605BM70449999-12-310000000000831
1478869	F45927001478869000002024-03-148271C2024-03-14605BM68419999-12-310000000002181
1077752	F45927001077752000002024-03-147211C2024-03-14605BM70449999-12-310000000007385
1070427	F45927001070427000002024-03-148271C2024-03-14605BM68419999-12-310000000001466

Sent NY Files:

TUBC ADMIN SYSTEM CORE FEATURES

Admins are able to do the following:

- Registering Account- accounts are pre-registered with data provided
- Logging In
- Verify Email
- Change Password
- Change personal information
- Enabled Two-Factor Authentication
- Forgot Password
- Delete Account



Multi-Factor Authentication

X

Enter your Phone Number. We will send you a verification code by SMS.

Phone Number

+17023269861

Verify Phone Number

TECH STACK

Firebase

- Firestore (Database used to store user data, user documents, fund documents)
- Storage (Firebase Cloud Storage to store documents uploaded by admin)
- Cloud Functions:
 - Email on upload function to notify users when new documents are in their portal
 - Generate Jason Web Token function to generate unique ID token for each user/user group

IronCore Encryption SDK

- Standard Development Kit that uses IronCore proprietary Transform Encryption technology to encrypt all user data and decrypt on the client side

Cloud Flare

- DDOS attack prevention
- Firewall

Github

- Used to store code base for both User & Admin Dashboards

SECURITY

- Two Factor Authentication
- Database Hard-Coded Permissions/Security Rules
- End to End Transform Encryption all unique user data
- End to End Transform Encryption of uploaded documents
- Cloudflare Firewall and DDOS Prevention



Cloud Firestore

Data **Rules** Indexes Usage

[Edit rules](#)[Monitor rules](#)[Develop & Test](#)

Mar 8, 2021 · 12:31 PM



Feb 15, 2021 · 12:23 PM



Jan 30, 2021 · 1:27 PM

```
1  rules_version = '2';
2  service cloud.firestore {
3      match /databases/{database}/documents {
4          match /{collection}/{document}/{path=**} {
5              allow read: if isReadable(collection, document);
6              allow write: if isWritable(collection, document);
7          }
8
9          // Checks if collection/document is readable
10         function isReadable(collection, document) {
11             return isAdmin() || !isReadProtected(collection) || isOwner(document);
12         }
13
14         // Checks if collection is protected against read
15         function isReadProtected(collection) {
16             return collection in ['users'];
17         }
18
19         // Checks if collection/document is writable
20         function isWritable(collection, document) {
21             return isAdmin() || (
22                 collection == 'users' && isRegistrationEnabled()
23             ) || (
24                 isEditor() && (!isWriteProtected(collection) || isOwner(document))
25             );
26         }
27
28         // Checks if collection is protected against write
29         function isWriteProtected(collection) {
```

Firebase Database Rules

A hard-coded set of rules for access to all data in the database based on user-authenticated tokens.

Edit rules

Monitor rules

Rules Playground

Simulation type

get

Location

/b/lp-dashboard-5f8a6.appspot.com/o

path/to/resource

Authenticated



Run

```
1 rules_version = '2';
2 service firebase.storage {
3     match /b/{bucket}/o {
4         match /{allPaths=**} {
5             allow read, write: if request.auth != null;
6         }
7     }
8 }
9 }
```

Storage Rules

Hard-coded set of rules to restrict access to Firebase Document Storage to unauthenticated users/entities.

Cloud Firestore

Data Rules Indexes Usage

❖ Prototype and test end-to-end with the Local Emulator Suite, now with Firebase Authentication Get started 

Home > users > 2AUFihAVAGZif...

test7-8a527	users	2AUFihAVAGZifXf31YRx0at5gpv1	⋮
+ Start collection	+ Add document	+ Start collection	⋮
posts	2AUFihAVAGZifXf31YRx0at5gpv1 >	+ Add field	
users >	D0PL9PLNf3PK3DnBcN5awaLRIi53 G0qfeuAp15bi4hYYLUH4DeZyZar2 LvYDh9fP00SndiqgTRzNb3DZFzs1 in5wxZVTdEfy98AhhpXFjmGiBH2 wZm1JkUZWkeZMqriR003J5Hgn5R2	bio: "" birth: "" created: March 16, 2021 at 11:43:57 PM UTC-7 email: "AgA5eyJfZGlkXyl6ljMzZjQ2MWZiOGU4YTNmMGYyMTZjNTI2NmNhMDVINC fullName: "AgA5eyJfZGlkXyl6ljkyNjl5ZjgxYWE5MWEyMmNIMTE3NDEwODVhMzczz AgA5eyJfZGlkXyl6ljE2NjE40TVI0DIhZjA2MTEwMWQwOWVmZmJiMGI1 lang: "en" lastName: "AgA5eyJfZGlkXyl6ljE2NjE40TVI0DIhZjA2MTEwMWQwOWVmZmJiMGI1 location: "AgA5eyJfZGlkXyl6ljFkN2l0NzZiMWFlYzk4ZjM2ZWRmZmFiYjFhMTQ2N name: "AgA5eyJfZGlkXyl6ljkyNjl5ZjgxYWE5MWEyMmNIMTE3NDEwODVhMzczz GU4 phone: "AgA5eyJfZGlkXyl6ljYyNWFlYmQ5NTFiZDJkZWU5ZjZmZDA5YzFhZTNkODM photo: "" theme: "light" updated: March 29, 2021 at 7:53:48 PM UTC-7 userName: "aga5eyjfzglkxyi6ijfjnmjmmthmnmi1mzc3ndbkztfmy2ewnwzlyzfmzmm1	

End-to-End Encryption

All user data is encrypted using
IronCore Transform Encryption at rest
and in transit.

END TO END ENCRYPTION- USER DATA FIELDS

The screenshot shows the Google Cloud Firestore console interface. The left sidebar displays a project named "test7-8a527" with a "users" collection selected. The main area shows a list of documents under the "users" collection, each with a unique ID. To the right, a specific document named "Kzsym3J7wYes6eYFzT8UGm2DFC2" is expanded to show its fields. The fields are encrypted strings, such as "email4: "AgA5eyJfZGlkXyl6lmI5ZDQyMDhhNDU2NjM0YzQ3MmJiMjYwYTNhMDI". The "members" field is expanded to show more fields: "password: "AgA5eyJfZGlkXyl6lj4ZjUyYWU0ZGQxNTVhNmNmMTI5N2FkNTk0MDI", "role: "LPFund1", "test: null", "updatedAt: null", "updatedBy: null", and "userName: "007"".

Field	Type	Value
email4	String	"AgA5eyJfZGlkXyl6lmI5ZDQyMDhhNDU2NjM0YzQ3MmJiMjYwYTNhMDI"
email5	String	"AgA5eyJfZGlkXyl6ljY0ODczMTY2NDI4YzQxMzl5ZjRmODU5NjVhMDU2M"
email6	String	"AgA5eyJfZGlkXyl6ljVhMWl0OTkzN2ZhMTU3MTA0MzhhZDcwMGJhM2I"
email7	String	"AgA5eyJfZGlkXyl6lmY5MjBmNmE4Yzc3Zdg10WM0OTyyYWI5Nzc0NG"
email8	String	"AgA5eyJfZGlkXyl6lmE3Y2I4MzUwZjU20DIxM2NmZjMyN2Q5MWFhMjU"
email9	String	"AgA5eyJfZGlkXyl6lmU3Yzdj0WE1MzY1MDMwOWQyMzJkYmRjYTgwYv"
firstName	String	"AgA5eyJfZGlkXyl6ljA4ZDNjMzQwNGEzOWRjNjgzNWJiYjY3N2RiYzk"
lastName	String	"AgA5eyJfZGlkXyl6ljdiOGNjNmFmMjJkMzUwZjEyMjJiM2U0NmY2ZjU"
members	Object	<ul style="list-style-type: none">password: "AgA5eyJfZGlkXyl6lj4ZjUyYWU0ZGQxNTVhNmNmMTI5N2FkNTk0MDI"role: "LPFund1"test: nullupdatedAt: nullupdatedBy: nulluserName: "007"

DOCUMENT PERMISSIONS- ANONYMIZATION

The screenshot shows the Google Cloud Firestore interface. The path in the top left is `posts > OWSofg6ZNQJ4`. In the top right, there's a `More in Google Cloud` dropdown. The main area displays a collection named `posts` with a document named `OWSofg6ZNQJ42IAo3UJS`.

The left sidebar lists other collections: `test7-8a527`, `categories`, `config`, `limitedpartners`, `postTranslations`, `posts` (which is selected), and `users`.

The middle section shows the document `OWSofg6ZNQJ42IAo3UJS` with its fields listed on the right. The fields are numbered 164 through 178 and have values starting with "a163".

The right sidebar shows the `posts` collection with documents listed: `"Newsletter-Q4"`, `"Newsletter-Q1"`, `"Financials Q4-2021"`, `"Financials Q4-2020"`, `"Financials Q4-2020"`, `"Financials Q4-2020"`, `"Financials Q4-2019"`, `"Financials Q4-2019"`, `"Financials Q4-2019"`, `"Financials Q4-2018"`, `"Financials Q4-2018"`, `"Financials Q4-2018"`, and `"Financials Q4-2018"`.

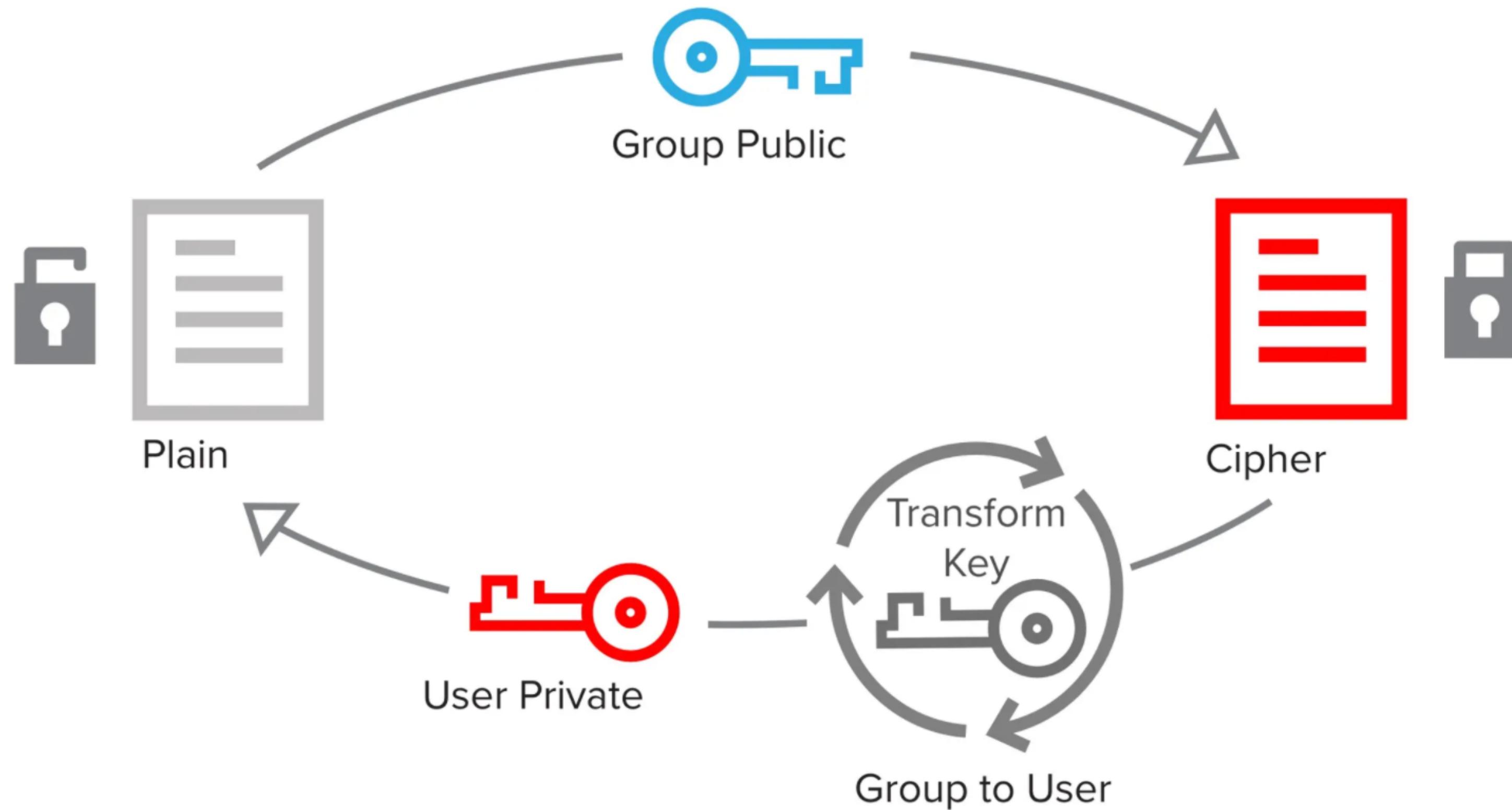
Transform encryption

Academic circles have long discussed transform encryption as proxy re-encryption (PRE). IronCore is the first commercialization of PRE. The word transformation is more descriptive of the process, so you will see the term transform encryption instead of proxy re-encryption.

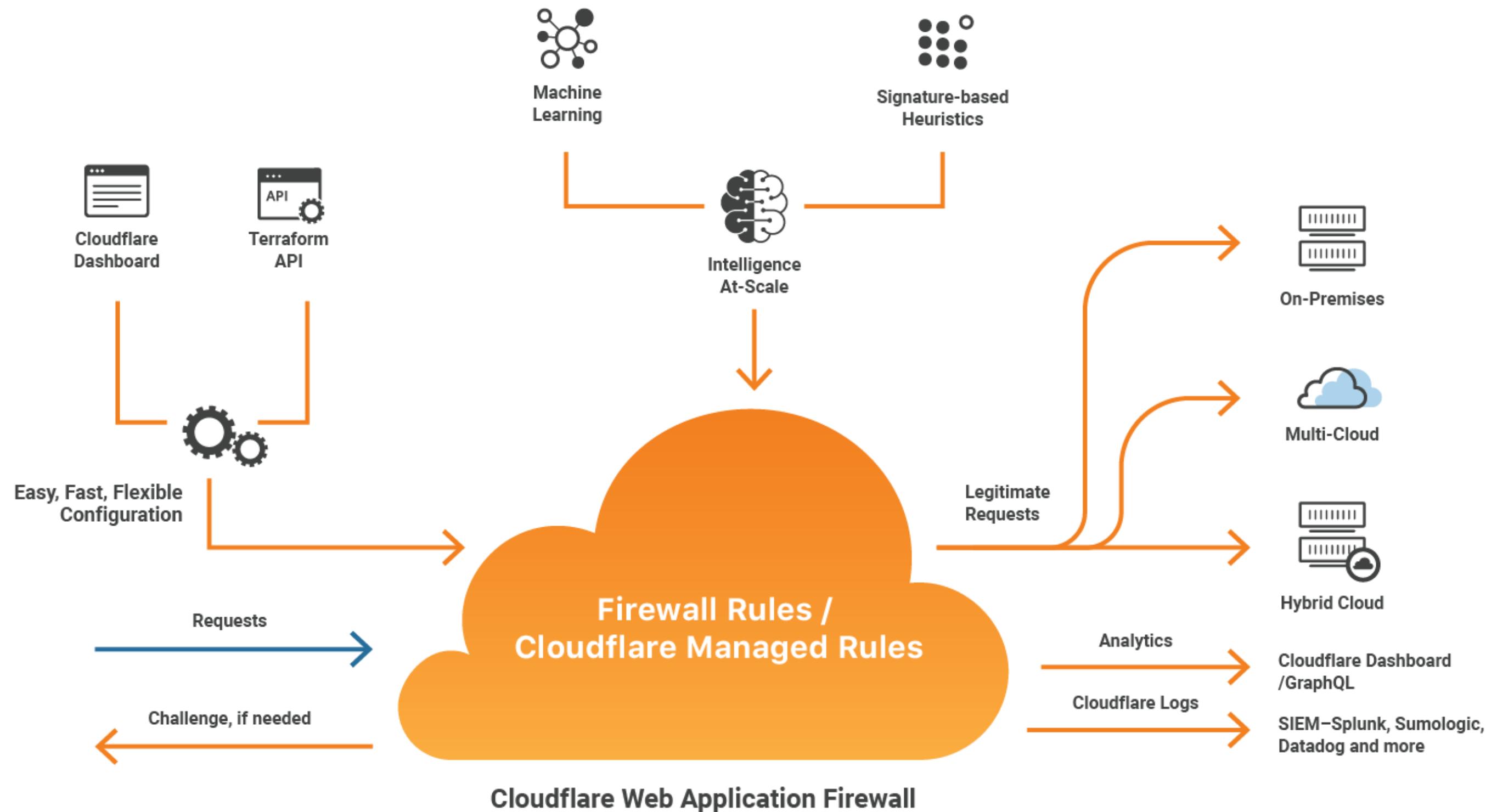
Transform encryption uses three keys that are mathematically related: one to encrypt plaintext to a recipient, a second to decrypt the ciphertext, and a third to transform ciphertext encrypted to one recipient so it can be decrypted by a different recipient. The first and second keys are the same pieces of a key pair that are used in asymmetric encryption.

IronCore uses transform encryption to create access control groups. A plaintext is encrypted using a **group public key**, a **transform key** converts the **group ciphertext** to **member ciphertext**, and the **member private key** decrypts the member ciphertext on the member's client device, recovering the plaintext.

A key aspect of the transformation process is that it does not require (or allow) the party doing the transformation to decrypt the ciphertext while transforming it. This allows transforms to be done by a semi-trusted service. The server never gains access to the plaintext and cannot get any information about the private key of either the group or the member.



CLOUDFLARE FIREWALL & DDOS PREVENTION



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