



ADMIN DASHBOARD OVERVIEW & USER GUIDE

Tristate Union Benefits

Admin Dashboard

[Get Started >](#)

TUBC ADMIN ACCOUNT FEATURES

Admins are able to do the following:

- Logging In via email or Google
- Verify Email
- Change Password
- Change personal information
- Enable Two-Factor Authentication
- Forgot Password
- Delete Account



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](#)



Chris

▼

Settings

Admin

C

▼



Dashboard

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Upload Documents

Profile

Customers

Notes

My Details

Authentication

Email

Password

Connected Accounts

Manage your connected accounts

Connected Accounts

Below are the accounts linked to your profile

@ Connected with Password

Available Providers

Click on the providers below to link your profile to the provider



Connect with Google.com

Multi-Factor Authentication

Set up MFA via SMS

ⓘ Secure your account with Multi-Factor Authentication

Enable Multi-Factor Authentication to verify your identity for an extra layer of security to your account in case your password is stolen. In addition to entering your password, it requires you confirm your identity via SMS.

Setup Multi-Factor Authentication



Multi-Factor Authentication

X

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

Phone Number

+17023269861

Verify Phone Number



Multi-Factor Authentication

X

Enter the verification code we sent you by SMS

Verification Code

180058

Factor Name (optional)

Cell Phone

Assign a name that helps you remember the phone number used

Enter Verification Code



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Settings



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Profile

My Details

Authentication

Email

Password

Password

Update your password

Current Password

New Password

Repeat New Password

Update Password

Admin



Collapse Sidebar

TUBC ADMIN SYSTEM CORE FEATURES

Admins dashboard features:

- User Search w/Filters: Name, User ID, Union, Active/Inactive
- View/Edit Customer Profiles
- Create New Customers
- Add New Unions
- Filter & Download Admin Reports
- Filter & Download Incoming Pay Files
- View Outgoing NY State data Que



[Admin](#)

[Users](#)

[Unions](#)

Admin

Users

1991

Active Customers

1417

Inactive

567

L831 Members

1790

COBA Members

193

[Back to Dashboard](#)



Chris ▾ Add User

Admin



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Upload Documents

Create New User

UID:

1818181

First Name:

test

Last Name:

user2

Create User

User created successfully!

Edit User

Create a User , click edit to fill in all user information



Chris ▼

Search

Welcome Back, chris@cbawebdesign.com

Heres whats happening across your business

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Search users by name...

Search users by User ID...

Active

COBA

Last Name	First Name	User ID	Union	Current Total Premium	Status	Actions
Alexis	Corrin	0588146	COBA	26.79	Active	View user
Allen	Chris	1322213	COBA	61.96	Active	View user
Almond	Eric	1272239	COBA	25.73	Active	View user
Alsbrook	Darrell	1623909	COBA	11.32	Active	View user
Anthony	Andrew	1700588	COBA	37.73	Active	View user
Barionette	Ernest	1286526	COBA	46.18	Active	View user
Barnaby	Lisa	1025682	COBA	55.5	Active	View user
Bellino	Anthony	1557205	COBA	36.01	Active	View user



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Search

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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](#)

REPORTS

- PAYFILE_RAW
 - Decrypted Pay-File from NY as is. TXT File(if using Notepad on Windows: user must click File, Open the file from downloads and make sure encoding is set to UTF-8)
- PAYFILE_EXTRACTED
 - Pay-File from NY extracting User ID, Customer Name, Current Deduction
- MISMATCHED_PREMIUMS
 - Report that checks CurrentTotalPremium from database vs CurrentDeduction from the incoming NY File
- USERS_NOT_IN_DATABASE
 - Report that checks any users that are in the incoming Pay File that are not in the database

REPORTS

- DEDUCTION_STATUS_CHANGES
 - Report that checks incoming Pay Files for users who switched from WE to BW or vice versa based on current DB status
- ACTIVE_USERS_MISSING
 - Report that checks any Active Users from the database that are missing from corresponding Pay File
- PREMIUM_MISMATCHES_ALL
 - Pay-File from NY extracting User ID, Customer Name, Current Deduction
- PREMIUM_HISTORY_ALL
 - Report that prints out all user NY State Premium History



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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

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COBA

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MISC

Toggle ▲



TUBC Document Hub



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PAYFILE_EXTRACTED

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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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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

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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



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Outgoing

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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	F459270010704270000002024-03-14827C2024-03-14605BM68419999-12-310000000001466
1077752	F459270010777520000002024-03-14721C2024-03-14605BM70449999-12-310000000007385
1478869	F459270014788690000002024-03-14827C2024-03-14605BM68419999-12-310000000002181
1601146	F459270016011460000002024-03-14721C2024-03-14605BM70449999-12-310000000000831
1625106	F459270016251060000002024-03-14721C2024-03-14605BM70449999-12-310000000004466
1700610	F459270017006100000002024-03-14721C2024-03-14605BM70449999-12-310000000002665
1700610	F459270017006100000002024-03-147211C2024-03-14605BM70449999-12-310000000002665
1625106	F459270016251060000002024-03-147211C2024-03-14605BM70449999-12-310000000004466
1601146	F459270016011460000002024-03-147211C2024-03-14605BM70449999-12-310000000000831
1478869	F459270014788690000002024-03-148271C2024-03-14605BM68419999-12-310000000002181
1077752	F459270010777520000002024-03-147211C2024-03-14605BM70449999-12-310000000007385
1070427	F459270010704270000002024-03-148271C2024-03-14605BM68419999-12-310000000001466

Sent NY Files:

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

SECURITY

- Two Factor Authentication
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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 listed as follows:

- email14: "AgA5eyJfZGlkXyl6lmI5ZDQyMDhhNDU2NjM0YzQ3MmJiMjYwYTNhMDI"
- email15: "AgA5eyJfZGlkXyl6ljY0ODczMTY2NDI4YzQxMzl5jRmODU5NjVhMDU2M"
- email16: "AgA5eyJfZGlkXyl6ljVhMWl0OTkzN2ZhMTU3MTA0MzhhZDcwMGJhM2I"
- email17: "AgA5eyJfZGlkXyl6lmY5MjBmNmE4Yzc3Zdg10WM0OTyyYWI5Nzc0NG"
- email18: "AgA5eyJfZGlkXyl6lmE3Y2I4MzUwZjU20DIxM2NmZjMyN2Q5MWFhMjU"
- email19: "AgA5eyJfZGlkXyl6lmU3Yzdj0WE1MzY1MDMwOWQyMzJkYmRjYTgwYv"
- firstName: "AgA5eyJfZGlkXyl6ljA4ZDNjMzQwNGEzOWRjNjgzNWJiYjY3N2RiYzk"
- lastName: "AgA5eyJfZGlkXyl6ljdjOGNjNmFmMjJkMzUwZjEyMjJiM2U0NmY2ZjU"
- members (expanded):
 - password: "AgA5eyJfZGlkXyl6lj4ZjUyYWU0ZGQxNTVhNmNmMTI5N2FkNTk0MDI"
 - role: "LPFund1"
 - test: null
 - updatedAt: null
 - updatedBy: null
 - userName: "007"

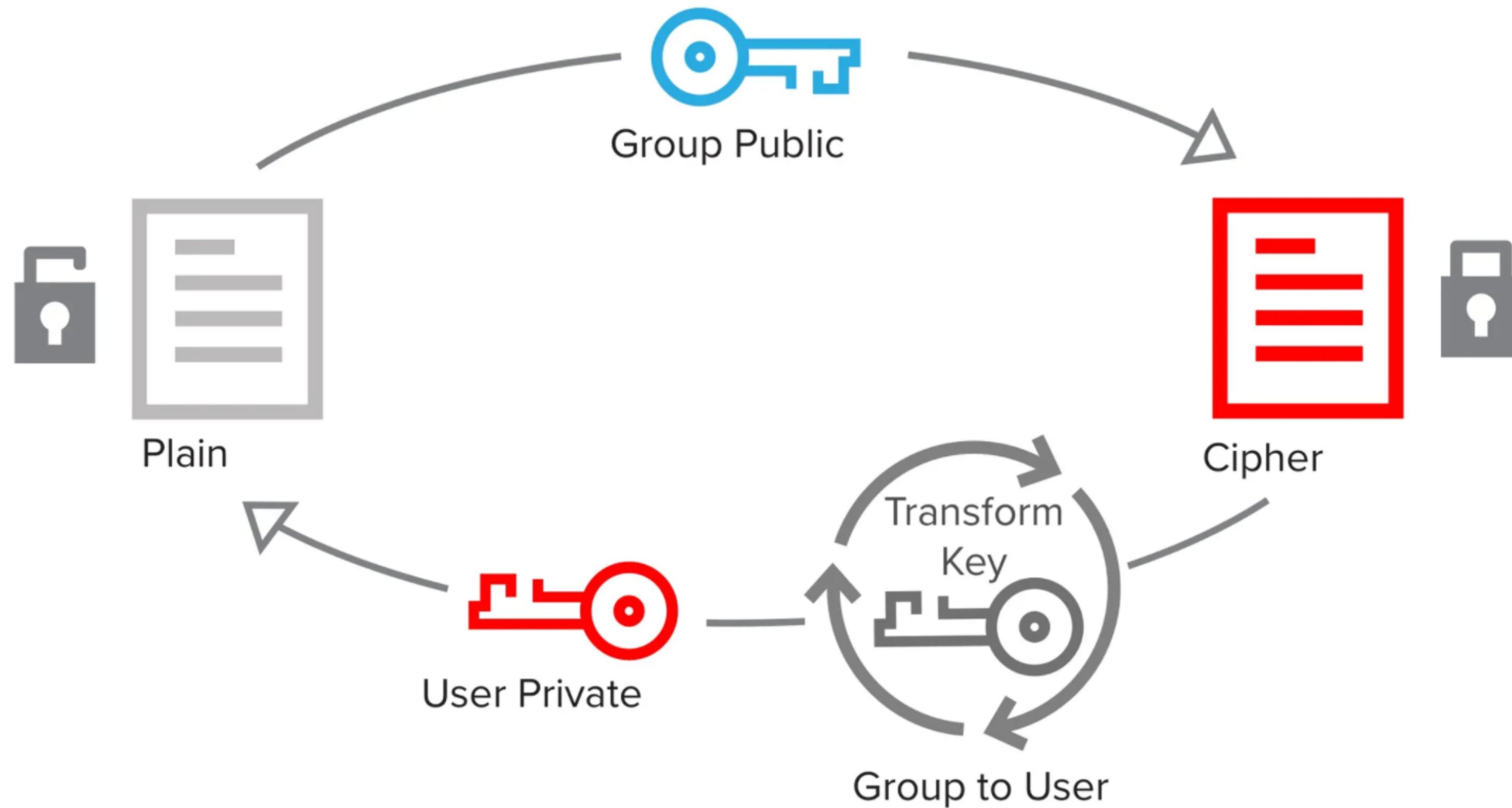
Transform encryption

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.

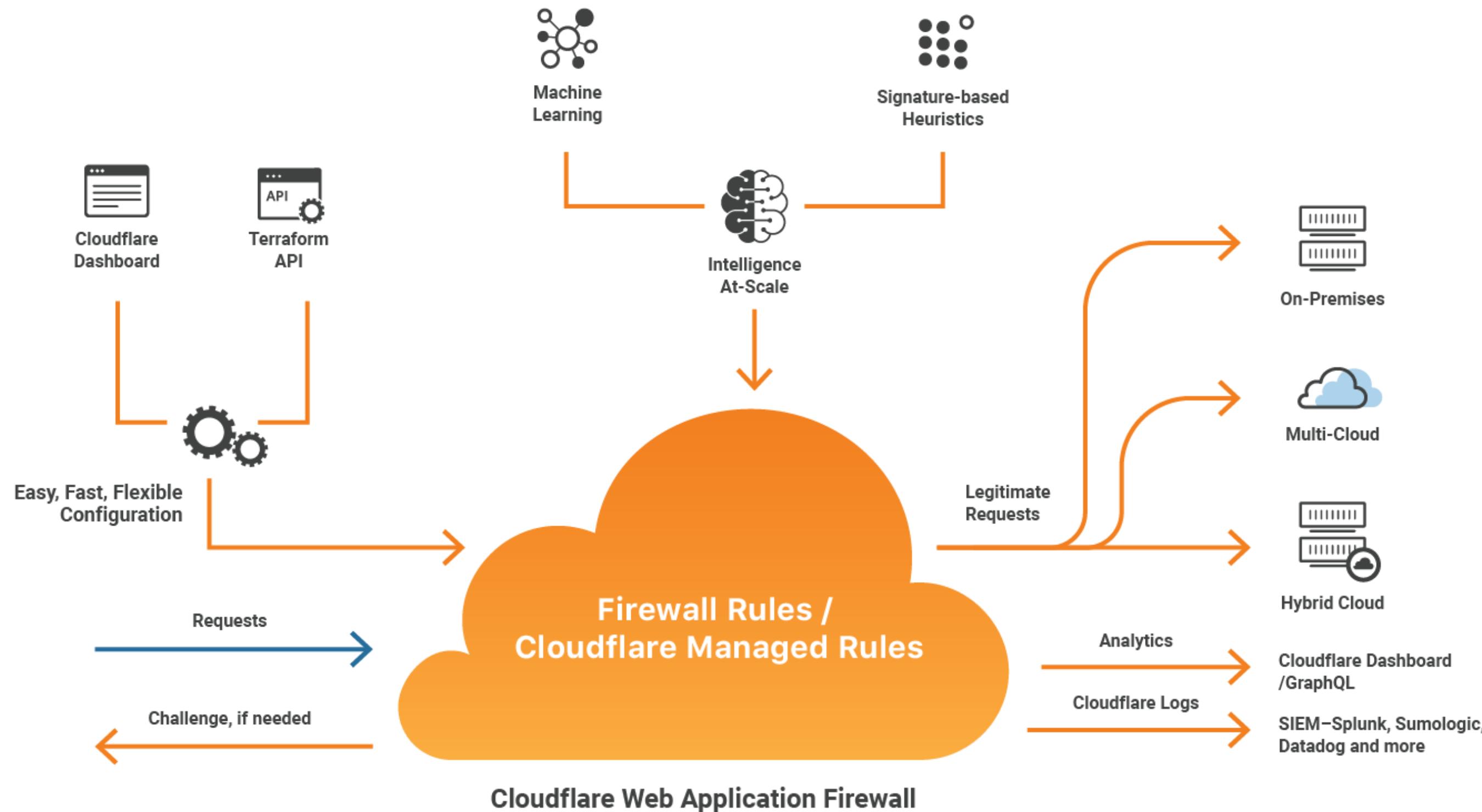
Transform encryption uses three keys that are mathematically related: one to encrypt plaintext to a recipient, a second to decrypt the ciphertext, and a third to transform ciphertext encrypted to one recipient so it can be decrypted by a different recipient. The first and second keys are the same pieces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



DIGITAL ALPHA LIMITED PARTNER DASHBOARD SUPPORT CONTACTS

Support Desk

support@dalphalp.net

Admin

andy@dalphafund.com