

# ZionChat Server API Docs EN

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## 1. User Login API

## 2. Send Encrypted Token IDs API (SSE)

## 1. User Login API

### Description

Accepts username and password, verifies user identity, and returns an API Key upon successful login. All subsequent API requests must include this API Key in the request header.

### Endpoint

POST /api/login

### Request Parameters

Name	Type	Required	Description
username	string	Yes	Username
password	string	Yes	User password

### Request Example

```
1 {  
2   "username": "testuser",  
3   "password": "password123"  
4 }
```

### Response Parameters

Name	Type	Description
api_key	string	API Key returned after successful login

### Response Example

```
1 {  
2   "api_key": "a1b2c3d4e5f6g7h8i9j0"  
3 }
```

### Notes

- Subsequent requests must include `Authorization: Bearer <api_key>` in the HTTP request header.

## 2. Send Encrypted Token IDs API (SSE)

### Description

The client sends multiple encrypted token IDs. Each token ID is represented by two float64 strings, which are flattened into a one-dimensional string array for transmission (array length = 2 × number of token IDs). The server continuously pushes back encrypted token IDs via SSE, each formatted as a one-dimensional string array of length 2.

### Endpoint

`POST /api/tokenid/send`

### Request Headers

Name	Description
Authorization	Bearer + API Key (required)
Content-Type	application/json

### Request Parameters

Name	Type	Required	Description
tokenids	string array (1D)	Yes	A flattened 1D array of float64 strings representing multiple encrypted token IDs. The array length must be 2 × number of token IDs.

## Request Example

```
1 {  
2   "tokenids": [  
3     "12.3456789", "98.7654321",  
4     "23.4567890", "87.6543210"  
5   ]  
6 }
```

## Response Format

- Uses HTTP SSE to continuously push data. Each push is a JSON string containing a single encrypted token ID in the form of a one-dimensional array (length 2, representing two float64 strings).

## Push Event Example

```
1 data: {"tokenid": ["34.5678901", "76.5432109"]}  
2 data: {"tokenid": ["45.6789012", "65.4321098"]}
```