

# Interacting with the Flash Scribe<sup>==</sup> Capacitor

This guide will show you how to exchange Flash tokens for TBDs (aka fTokens).

Please ensure you fully understand these steps before continuing. If unsure, head over to discord and ask.

## Finding the Flash Capacitor Contract Address

- 1 Navigate to the Flash Capacitor contract via etherscan. You can find the latest contract addresses at: [docs.flashstake.io/tokenomics-flash/flash-capac...](https://docs.flashstake.io/tokenomics-flash/flash-capac...)

! Tip! Ensure your web3 wallet is connected to the correct network!

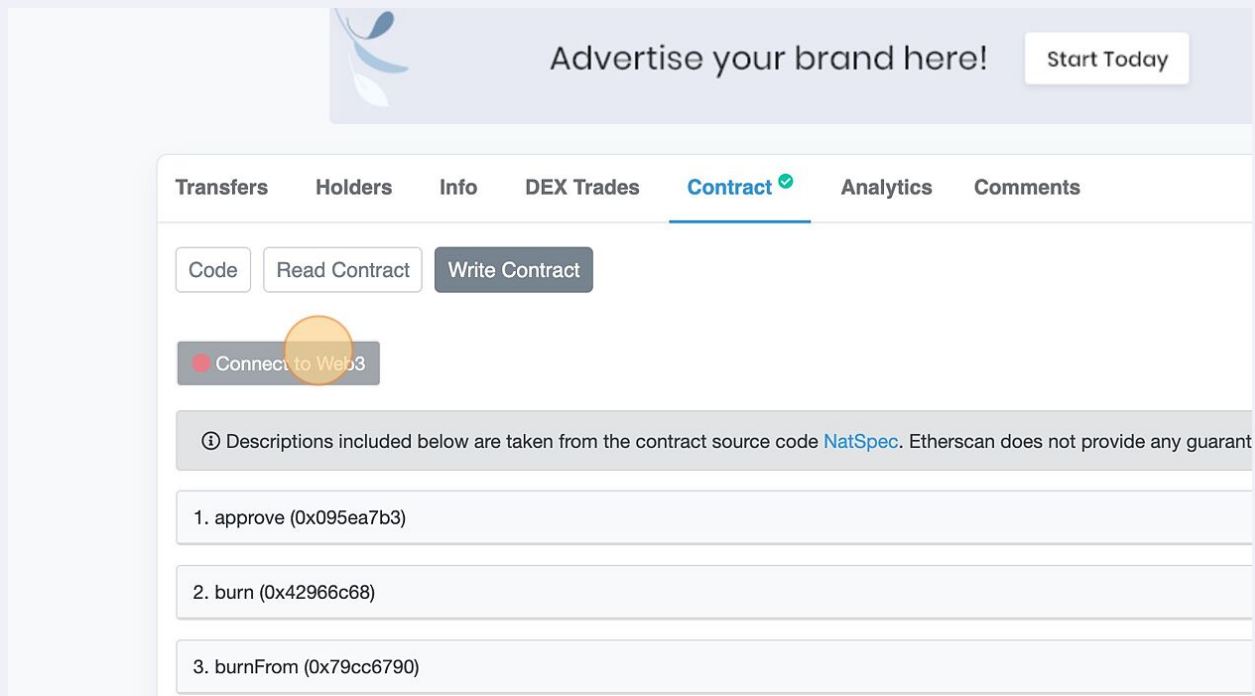
## Step 1: Approve Flash token

- 2 Depending on the network you wish to interact with, retrieve the Flash token address and head over to etherscan. You can find the Flash token address for all networks here: [docs.flashstake.io/tokenomics-flash](https://docs.flashstake.io/tokenomics-flash)

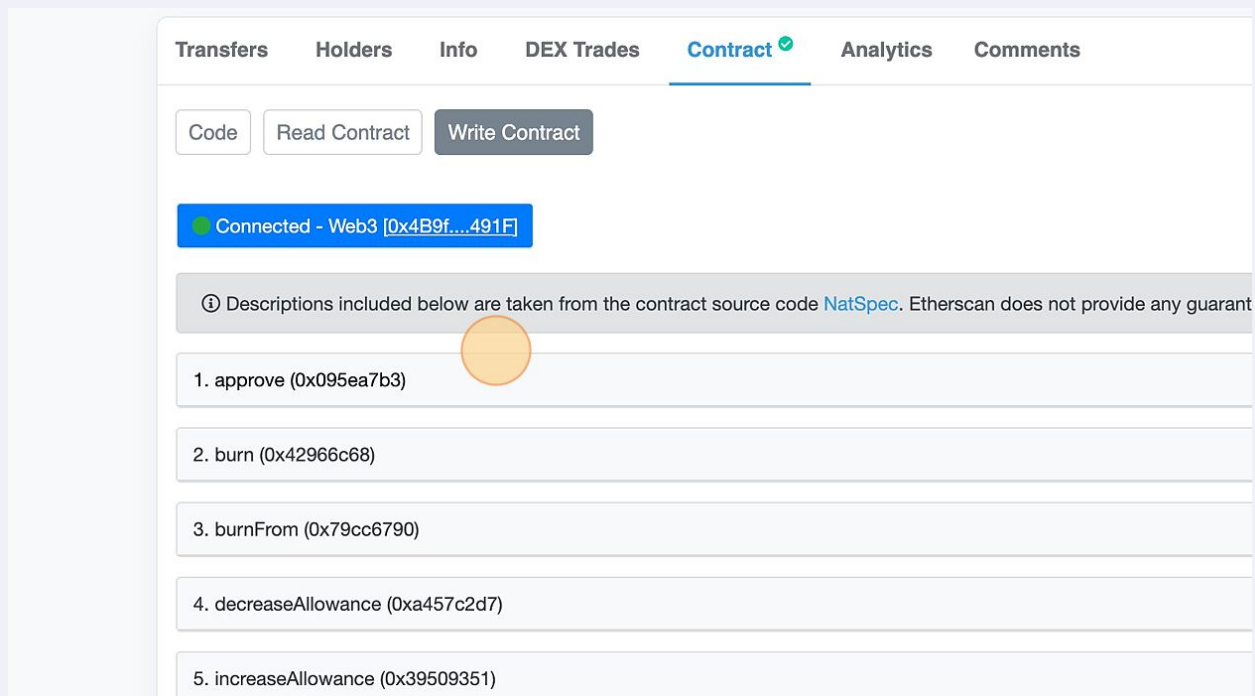
! For the purposes of this guide, we will use Flash on Ethereum Mainnet. The Flash token address for Ethereum Mainnet is 0xB1f1F47061A7Be15C69f378CB3f69423bD58F2F8

- 3 Using a blockchain explorer like Etherscan, head over to the "Contract" page for the Flash token. Ethereum mainnet example: [etherscan.io/token/0xB1f1F47061A7Be15C69f378CB3...](https://etherscan.io/token/0xB1f1F47061A7Be15C69f378CB3...)

4 Click "Connect to Web3" and connect your wallet



5 Once connected, click "1. approve (0x095ea7b3)"





Reminder, the Flash Capacitor addresses can be found in the documentation: [docs.flashstake.io/tokenomics-flash/flash-capac...](https://docs.flashstake.io/tokenomics-flash/flash-capac...)

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The spender should be the Flash Capacitor contract address (from step 1).

The amount should be sufficiently high enough to perform arbitrage depending on the current Flash Capacitor constant Flash value.

Alternatively, you can set the amount to max approval by using the value 115792089237316195423570985008687907853269984665640564039457584007913129639935

Hit "Write" and execute the transaction

1. approve (0x095ea7b3)

See {IERC20-approve}. NOTE: If `amount` is the maximum `uint256`, the allowance is not updated on `transferFrom`. This is :  
spender (address)

0x850d9DdC2fA136B51C7C86ef331C95e44c54217e

amount (uint256)

1000000000000000000000

2. burn (0x42966c68)

3. burnFrom (0x79cc6790)

4. decreaseAllowance (0xa457c2d7)

5. increaseAllowance (0x39509c)

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## Step 2: Exchange Flash tokens for TBDs/fTokens



Reminder, the Flash Capacitor addresses can be found in the documentation: [docs.flashstake.io/tokenomics-flash/flash-capac...](https://docs.flashstake.io/tokenomics-flash/flash-capac...)

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Navigate to the Flash Capacitor contract page using your block explorer and click on the Contract page.

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Click the dropdown to determine the available tokens for arbitrage

The screenshot shows a web interface for a contract page. At the top, there is a header with the text "ame - Win up to 5 BTC Everyday! Live casino + 20k slots [Play Now](#)". Below this is a main content area with a dropdown menu currently set to "0 Ether". Below the dropdown is a value of "\$0.00" and a slider control. At the bottom of the slider is a dropdown menu showing "\$0.00" with a blue "1" next to it, and a small icon to its right. To the right of the main content area is a "More Info" sidebar containing the following information: "My Name Tag: Not Av...", "Contract Creator: Flashst". Below the main content area is an advertisement banner for "XENNA GAMEFI BATTLE ROYALE RTS JOIN NFT TOURNAMENT". At the bottom of the page is a navigation bar with the following items: "Erc20 Token Txns", "Contract" (with a green checkmark), "Events", "Analytics", and "Comments".

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Choose the token you wish to accumulate

Note: If the drop down is not shown, this is because there are no tokens in the contract - try again later!

The screenshot shows a blockchain interface. At the top, there's a search bar for token names. Below it, a dropdown menu is open, showing 'ERC-20 Tokens (1)' with one option: 'fCRV-A3F8 (fCRV-A...)' with a value of '1.6 fCRV-A3F8'. Below the dropdown, there are tabs for 'Erc20 Token Txns', 'Contract' (which is active), 'Events', 'Analytics', and 'Comments'. Under the 'Contract' tab, it says 'Total of 3 transactions'. Below that, there's a table with columns: 'Method', 'Block', 'Age', 'From', and 'To'. The first transaction is: 'Set Exchange Det...' with block '16485502', age '7 mins ago', from 'Flashstake: Deployer 1', and to '0x850d9ddc'.

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Once you have chosen the token you wish to accumulate, copy the token contract address

The screenshot shows a profile summary page. At the top, there's a navigation bar with 'Home', 'Blockchain', 'Tokens', 'Resources', and 'More'. Below that, there are buttons for 'Exchange', 'Earn', and 'Gaming'. The main content area is titled 'Profile Summary [Edit]'. It has a 'More' dropdown menu. Below that, there's a 'Contract' field with the address '0x93eE9a13daEC3AAA3C18bFdAC9581a3B92e3530C' and a 'Copy address' button. Below that, there's a 'Decimals' field with the value '18'. At the bottom, there's a 'Social Profiles' field with the text 'Not Available, Update ?'. At the bottom of the page, there's an advertisement for 'BC.GAME' with a 'PLAY NOW' button.

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Note: Use the READ CONTRACT function "balanceOf" with the copied token address on the Flash Capacitor contract to determine how many tokens can be arbitrated after fees.

The Flash Capacitor will redirect some percentage of tokens to the Flash Treasury. The percentage can be determined by using the READ CONTRACT function "accumulateFeePercentage".

100 = 1%, 1000 = 10%, etc

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Determine the constant Flash token exchange amount. This is the number of Flash tokens you will have to send to the Flash Capacitor to extract a given token.

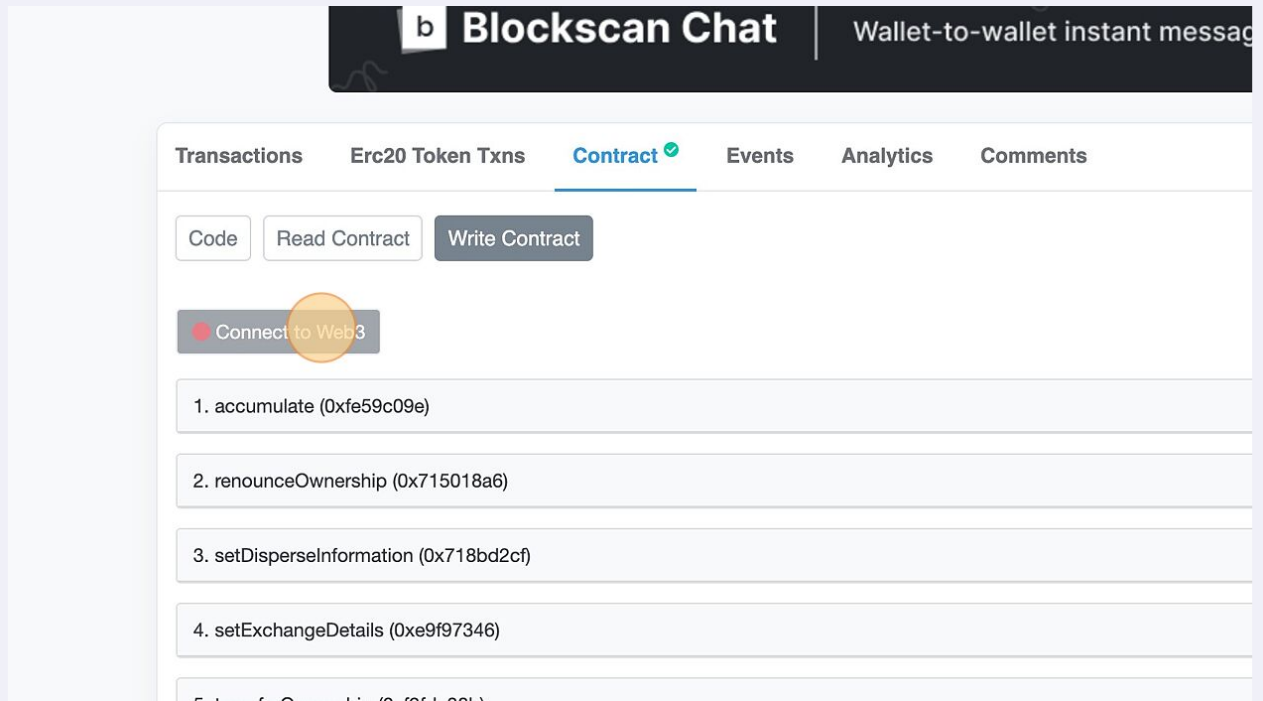
You can do this by using the READ CONTRACT function "constantExchangeAmount".



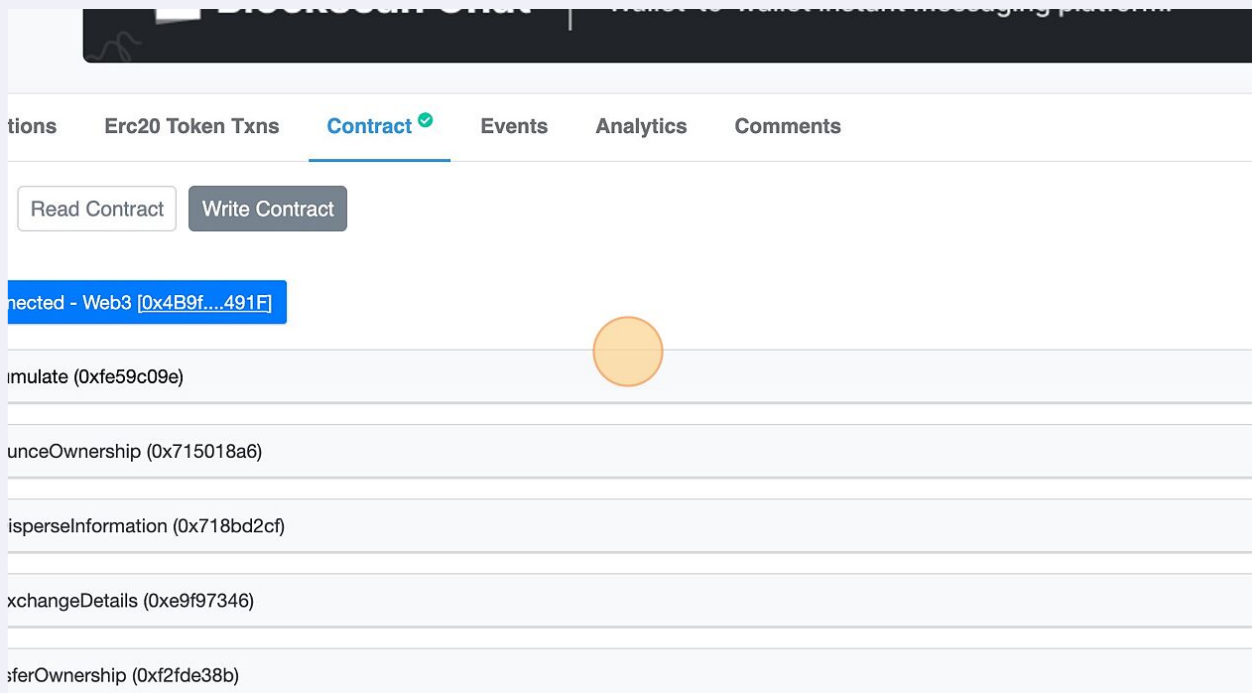
Tip! The constantExchangeAmount is in wei, this means you will need to divide the value by (10\*\*18) to retrieve the decimal amount.

1000000000000000000 = 1 Flash token  
10000000000000000000 = 10 Flash tokens  
etc

13 If you are happy to proceed, click "Connect to Web3" and connect your wallet



14 Once connected, click "1. accumulate (0xfe59c09e)"



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In the `_tokenAddresses` field, enter the token address you copied earlier (the token you wish to accumulate)

In the `_recipientAddresses` field, enter the address you wish to send the accumulated tokens to. This is usually your own wallet address.

In the `_minimumReceived` field, enter the minimum number of tokens you wish to accumulate. If the balance on execution is lower than this number, the transaction will fail. This would typically be the value returned in step 11 from the "balanceOf" function.

Click "Write" and execute the transaction

`_tokenAddresses (address[])`

0x93eE9a13daEC3AAA3C18bFdAC9581a3B92e3530C

`_recipientAddresses (address[])`

0x4B9f696c998f9549485a3a85DcA692Fd6CCE491F

`_minimumReceived (uint256[])`

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2. `renounceOwnership (0x715018a6)`

3. `setDisperseInformation (0x718bd2cf)`

4. `setExchangeDetails (0xe9f97346)`

5. `transferOwnership (0xf2fde38b)`