



Matador Token
Smart Contract Security Audit
June 07, 2021

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Audit details



Audited project

Matador Token (MTDR)



Deployer Address

0x3C969c2EF54E53fFe61d11c241B7273f7E3F1c76



Client contact

Matador Token Team



Blockchain

Binance smart chain



Project website

https://www.matadortoken.com/

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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Background

Rugfreecoins was commissioned by Matador Token to perform an audit of the smart contract.

https://bscscan.com/address/0x994517e000aa3f117e7ad61b0e2336c76b4fd94a

The focus of this audit is to verify that the smart contract is secure, resilient and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

About the project

Matador Token is a rug-proof community-owned token built on the Binance Smart Chain that rewards holders with a distribution of 20% from every transaction made. Distributions are spread proportionally amongst all holders. The more tokens investors have, the more percentage of the distribution investors receive. In addition to burning a portion of tokens through each transaction. MTDR team will have a monthly randomized burn as circulating supply unlocks!

Matador Token applies a 30% fee on all transactions (buys/sells/transfers). Out of this, 20% is automatically distributed to the holders. It's unique to reward long-term holders, and while keeping market makers, whales, and bots out of the token from manipulating the price. The number of tokens in investors' wallets will forever increase as people transact, even though a premium amount was paid to enter the position. This way impairment losses are completely avoided, and investors get paid for just holding Matador.

Additionally, out of the 30% Tax, Matador takes 5% of each transaction and automatically adds it to the liquidity pool. The liquidity pool will increase in perpetuity, which in turn leads to a higher price floor for Matador. This is what the team is trying to accomplish: Peace of mind in your long-term investment.

Tokenomics

- > 20% goes into HODLer pockets.
- ➤ 5% fee is split 50/50, half of which is sold by the contract into BNB, while the other half of the Matador tokens are paired automatically with BNB and added as a liquidity pair on Pancake Swap.
- > 5%-coin burn.

Roadmap



Beta testing

- Opploy on Eth network
- Test liquidity metrics
- Oreate social media and communication outlets
- Oreate social media and communication outlets
- Snapshot all tokenholders
- Retire ETH version and remove liquidity

COMPLETE

May 2021

Rebranding & Operation

- Oreate, test and deploy contract on BSC
- Rebranding, logo and website update
- Form the Dev & Admin Team
- Lock tokens for development team, marketing and operation
- Submit contract for auditing
 - O Lock Excess Dev Tokens

COMPLETE

QTR3 2021 - 2022

Push on listings & Grow the team

- - Coingecko listing
- Apply to multiple exchanges
 - Grow our admin team
- Hire a blockchain consultant for continued growth
- Onboard a marketing agency

PENDING

QTR3 2021 - 2022

Push on listings & Grow the team

- Coinmarketcap listing
 - Coingecko listing
- Apply to multiple exchanges
 - Grow our admin team
- Hire a blockchain consultant for continued growth
- Onboard a marketing agency

PENDING

Target market and the concept

Target market

- Anyone who's interested in Crypto space with long term investment plans.
- Anyone who's interested in earning a passive income (20% interest for your investment per each transaction in the Matador ecosystem.)

Core concept

The most unique and important part is Matador token applies a 30% fee on all transactions (buys/sells/transfers). The Out of this 30%, the majority of tokens of 20% is automatically distributed among all the holders. The 30% tax concept is to attract and encourage investors to hold for a long time and make them believe in the project. This way, all the market manipulators, whales, and bots will stay out of the project since they can't make any quick profits.

Additionally, out of the 30% Tax, Matador takes 5% of each transaction and automatically adds it to the liquidity pool. The liquidity pool will increase in perpetuity, which in turn leads to a higher price floor for Matador. The other 5% is automatically getting burnt for every transaction, which that the whole supply is getting reduced every day. Hence, the price of Matador is going up day by day.

Matador Team

1. Developer: DAN

Telegram: @Bookingcrypto

Matador Wallet: 0xCc55A1B3cFaCA50C403bAb8aFB650599CFdC1a38



2. Co-Founder/Admin – Operations: Business manager and financier: T.M.

Telegram: @Tamatador

Matador Wallet: 0xB03FFa89A45bA70d31167D9a9090C61435462e67



3. Sales manager - MIKE M.

Telegram: @matador_mike

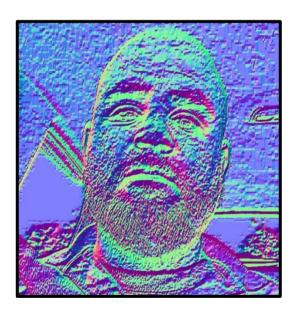
Matador Wallet: 0x279a56Fc7f3b3393a2Ea62DfF7210E7650978485



4. Social media marketer: SCOTT G.

Telegram: @ghostmatador

Matador Wallet: 0x790B817d800B4047786C6ED1166207Fe4Fc04f93



5. Admin - Marketing: Nic M.

Marketing designer and promotions.



6. Admin - Marketing: Jason

A marketing genius.

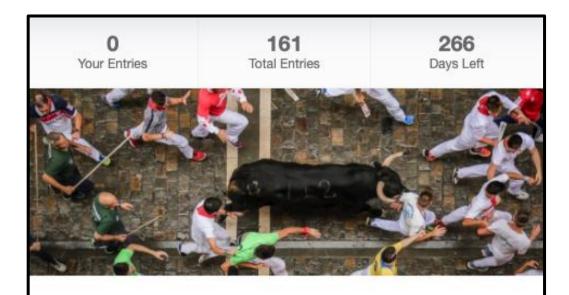
Telegram: @Jay_Webs



Reward competitions

Reward competitions for the long-term holders.

Competition as of 07th June 2021



Trip to Pamplona, Spain for the Running of the bulls event! 07/05/2022 - 07/08/2022

In order to be considered in this promotion, you must own a minimum of 100,000 MTDR tokens.

Please submit your Name, MTDR wallet address and email for verification.

Complete all the required fields and earn 3 entries into the drawing!

Potential to grow with score points

1.	Project efficiency	7/10
2.	Project uniqueness	8/10
3	Information quality	8/10
4	Service quality	7/10
5	System quality	6/10
6	Impact on the community	8/10
7	Impact on the business	7/10
8	7/10	
Total	7.25/10	

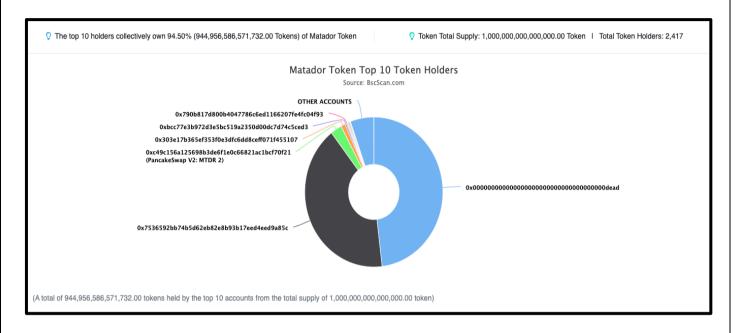
Contract details

Token contract details for 07.06.2021

Contract name	Matador Token
Contract address	0x994517e000aa3f117e7ad61b0e2336c76b4fd94a
Token supply	1,000,000,000,000 MTDR
Token ticker	MTDR
Decimals	18
Token holders	2431 addresses
Transaction count	7,025
Top 100% holders dominance	97.37%
Contract deployer address	0x3C969c2EF54E53fFe61d11c241B7273f7E3F1c76
Contract's current owner address	0xcc55a1b3cfaca50c403bab8afb650599cfdc1a38

Top token holders

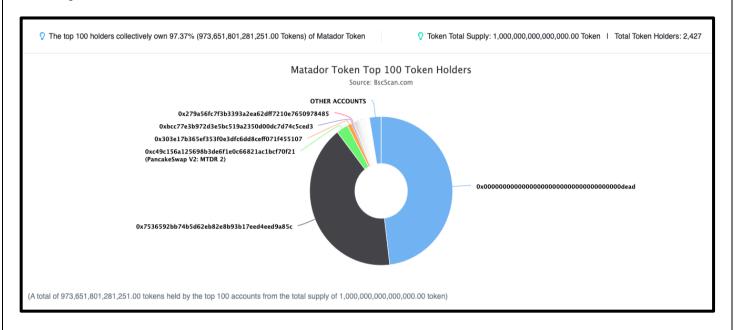
Top 10 Token Holders



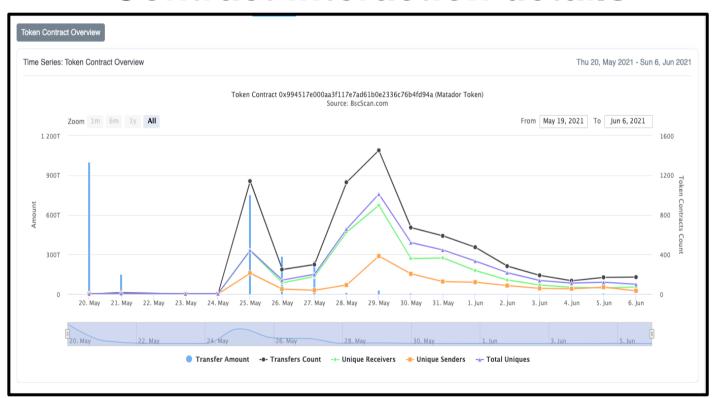
(A total of 94	(A total of 945,549,847,495,503.00 tokens held by the top 10 accounts from the total supply of 1,000,000,000,000,000.00 token)			
Rank	Address	Quantity (Token)	Percentage	
1	0x000000000000000000000000000000000000	480,856,222,293,553.076427040978378323	48.0856%	
2	₫ 0x7536592bb74b5d62eb82e8b93b17eed4eed9a85c	414,148,005,302,913.746206489284999857	41.4148%	
3	∄ PancakeSwap V2: MTDR 2	26,808,287,782,214.823599656654394296	2.6808%	
4	0x303e17b365ef353f0e3dfc6dd8ceff071f455107	9,906,281,690,004.719961802977394325	0.9906%	
5	0xbcc77e3b972d3e5bc519a2350d00dc7d74c5ced3	3,205,066,350,242.510680383437067348	0.3205%	
6	0x279a56fc7f3b3393a2ea62dff7210e7650978485	2,209,159,197,501.887017462177056603	0.2209%	
7	0x790b817d800b4047786c6ed1166207fe4fc04f93	2,207,756,093,368.886997078623426408	0.2208%	
8	0xb03ffa89a45ba70d31167d9a9090c61435462e67	2,203,592,503,514.709845065149862042	0.2204%	
9	0x5beba542432c6dd9a30b9f95a5fd51307c30a7f5	2,018,752,921,299.363578050698348398	0.2019%	
10	0xc7029e939075f48fa2d5953381660c7d01570171	1,986,723,360,888.369644566172292858	0.1987%	

Token distribution

Top 100 Token Holders



Contract interaction details



Contract code function details

No	Category	Item	Result
		BRC20 Token standards	pass
		compile errors	pass
		Compiler version security	pass
		visibility specifiers	pass
		Gas consumption	low issue
1	Coding conventions	SafeMath features	pass
		Fallback usage	pass
		tx.origin usage	pass
		deprecated items	pass
		Redundant code	pass
		Overriding variables	pass
		Authorization of function call	pass
2	Function call audit	Low level function (call/delegate call) security	pass
		Returned value security	pass
		Selfdestruct function security	pass
	Business security	Access control of owners	pass
3		Business logics	pass
		Business implementations	pass
4	Integer overflow/underflow		pass
5	Reentrancy		pass
6	Exceptional reachable state		pass
7	Transaction ordering dependence		pass
8	Block properties dependence		pass
9	Pseudo random number generator (PRNG)		pass
10	DoS (Denial of Service)		pass
11	Token vesting implementation		pass
12	Fake deposit		pass
13	Event security		pass

Below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions and implementations with its visibility and mutability.

Function Name			
	Visibility	Mutability	Modifiers
Interface			
totalSupply	External 🎚		№
balanceOf	External 🏻		МОД
transfer	External [№[]
allowance	External 🏻		МОД
approve	External 🌡		№
transferFrom	External [ио[
		1	
Library			
tryAdd	Internal 🖺		
trySub	Internal 🖺		
tryMul	Internal 🖺		
tryDiv	Internal 🖺		
tryMod	Internal 🖺		
add	Internal 🖺		
	totalSupply balanceOf transfer allowance approve transferFrom Library tryAdd trySub tryMul tryDiv tryMod	totalSupply External balanceOf External transfer External allowance External approve External transferFrom External transferFrom Internal tryAdd Internal trySub Internal tryMul Internal tryDiv Internal tryMod Internal Intern	totalSupply External I

L	sub	Internal 🖺	
L	mul	Internal 🖺	
L	div	Internal 🖺	
L	mod	Internal 🖺	
L	sub	Internal 🖺	
L	div	Internal 🖺	
L	mod	Internal 🖺	
Context	Implementation		
L	_msgSender	Internal 🖺	
L	_msgData	Internal 🖺	
Address	Library		
L	isContract	Internal 🖺	
L	sendValue	Internal 🖺	
L	functionCall	Internal 🖺	
L	functionCall	Internal 🖺	
L	functionCallWith Value	Internal 🖺	

L	functionCallWith Value	Internal 🖺	
L	functionStaticCal	Internal 🖺	
L	functionStaticCal I	Internal 🖺	
L	functionDelegate Call	Internal 🖺	
L	functionDelegate Call	Internal 🖺	
L	_verifyCallResult	Private 🖺	
Ownable	Implementation	Context	
L		Public [NO[
L	owner	Public 🎚	NO
L	renounceOwner ship	Public 🎚	onlyOwner
L	transferOwnersh ip	Public [onlyOwner
			T
IUniswapV2Factory	Interface		
L	feeTo	External [NO
L	feeToSetter	External [NO
L	getPair	External [NO[

L	allPairs	External [NO[
L	allPairsLength	External [NO
L	createPair	External [● NO[
L	setFeeTo	External [● NO[
L	setFeeToSetter	External [● NO[
IUniswapV2Pair	Interface		
L	name	External [NO
L	symbol	External [NO
L	decimals	External [NO
L	totalSupply	External 🏻	NO
L	balanceOf	External [NO
L	allowance	External 🏻	NO
L	approve	External [● NO [
L	transfer	External [■ NO
L	transferFrom	External [■ NO
L	DOMAIN_SEPA RATOR	External [NO
L	PERMIT_TYPE HASH	External [NO

L	nonces	External [NO
L	permit	External [● NO [
L	MINIMUM_LIQU IDITY	External [NO
L	factory	External [NO
L	token0	External [NO
L	token1	External [NO[
L	getReserves	External [NO
L	price0Cumulativ eLast	External [NO[
L	price1Cumulativ eLast	External [NO
L	kLast	External [NO
L	mint	External [● NO [
L	burn	External [● NO [
L	swap	External [NO I
L	skim	External [NO I
L	sync	External [● NO [
L	initialize	External [No No

IUniswapV2Router01	Interface			
L	factory	External [NO
L	WETH	External [NO
L	addLiquidity	External [NO
L	addLiquidityETH	External [db	NO
L	removeLiquidity	External [NO
L	removeLiquidity ETH	External 🎚		NO[
L	removeLiquidity WithPermit	External 🎚		NO
L	removeLiquidity ETHWithPermit	External 🎚		NO
L	swapExactToke nsForTokens	External 🎚		NO
L	swapTokensFor ExactTokens	External 🌡		NO
L	swapExactETHF orTokens	External 🎚	СD	NO
L	swapTokensFor ExactETH	External [NO
L	swapExactToke nsForETH	External [NO
L	swapETHForExa ctTokens	External 🎚	dip	NO[

L	quote	External [ио∄
L	getAmountOut	External [№
L	getAmountIn	External [NO
L	getAmountsOut	External [NO
L	getAmountsIn	External [NO
IUniswapV2Router02	Interface	IUniswapV2Router01		
L	removeLiquidity ETHSupportingF eeOnTransferTo kens	External [NOÏ
L	removeLiquidity ETHWithPermitS upportingFeeOn TransferTokens	External [NO
L	swapExactToke nsForTokensSu pportingFeeOnT ransferTokens	External [NO
L	swapExactETHF orTokensSuppor tingFeeOnTransf erTokens	External [аÞ	NO
L	swapExactToke nsForETHSuppo rtingFeeOnTrans ferTokens	External [NO

MTDR	Implementation	Context, IERC20, Ownable		
L		Public 🎚		NO[
L	name	External 🌡		ио[
L	symbol	External 🎚		ио[
L	decimals	External 🎚		ио≬
L	totalSupply	External [ио≬
L	balanceOf	Public [ио≬
L	transfer	External [ио≬
L	allowance	External [ио≬
L	approve	External [ио≬
L	transferFrom	External [ио≬
L	increaseAllowan ce	External 🎚		NO[
L	decreaseAllowa nce	External 🎚		NO[
L	isExcludedFrom Reward	External [ио[
L	totalFees	External [ио≬
L	deliver	External [NO[NO[

L	reflectionFromTo ken	External [МОЙ
L	tokenFromRefle ction	Public		МОЇ
L	excludeFromRe ward	External [onlyOwner
L	includeInReward	External [onlyOwner
L	_transferBothEx cluded	Private 🖺		
L	excludeFromFee	External [onlyOwner
L	includeInFee	External [onlyOwner
L	setTaxFeePerce nt	External [xternal [
L	setBurnFeePerc ent	External [onlyOwner
L	setLiquidityFeeP ercent	External [onlyOwner
L	setMaxTxPercen t	External [onlyOwner
L	setSwapAndLiqu ifyEnabled	External [onlyOwner
L		External [<u>d</u> D	NO
L	_reflectFee	Private 🖺		
L	_getValues	Private 🖺		

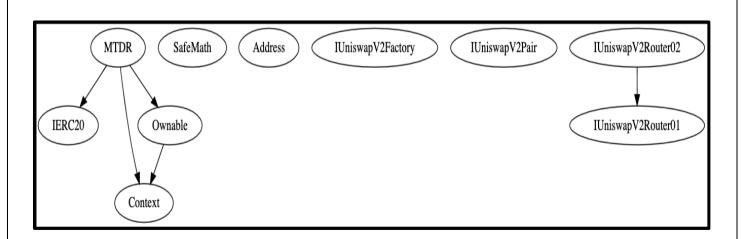
L	_getTValues	Private 🖺	
L	_getRValues	Private 🖺	
L	_getRate	Private 🖺	
L	_getCurrentSup ply	Private 🖺	
L	_takeLiquidity	Private 🖺	
L	_takeBurn	Private 🖺	
L	calculateTaxFee	Private 🖺	
L	calculateBurnFe e	Private 🖺	
L	calculateLiquidit yFee	Private 🖺	
L	removeAllFee	Private 🖺	
L	restoreAllFee	Private 🖺	
L	isExcludedFrom Fee	External [NO
L	_approve	Private 🖺	
L	_transfer	Private 🖺	
L	swapAndLiquify	Private 🖺	lockTheSwap
L	swapTokensFor Eth	Private 🖺	

L	addLiquidity	Private 🖺	
L	_tokenTransfer	Private 🖺	
L	_transferStandar d	Private 🖺	
L	_transferToExclu ded	Private 🖺	
L	_transferFromEx cluded	Private 🖺	

Legend

Symbol	Meaning
	Function can modify state
aja	Function is payable

Inheritance Hierarchy



Security issue checking status

High severity issues

No high severity issues found

❖ Medium severity issues

No medium severity issues found

Low severity issues

1. Out of gas

Issue:

➤ The function includeInReward() uses the loop to find and remove addresses from the _excluded list. Function will be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

```
function includeInReward(address account) external onlyOwner() {
    require(_isExcluded[account], "Account is already included");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account) {
            _excluded[i] = _excluded.length - 1];
            _tOwned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
            break;
        }
    }
}</pre>
```

➤ The function _getCurrentSupply also uses the loop for evaluating total supply. It also could be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

```
function _getCurrentSupply() private view returns(uint256, uint256) {
   uint256 rSupply = _rTotal;
   uint256 tSupply = _tTotal;
   for (uint256 i = 0; i < _excluded.length; i++) {
      if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return (_rTotal, _tTotal);
      rSupply = rSupply.sub(_rOwned[_excluded[i]]);
      tSupply = tSupply.sub(_tOwned[_excluded[i]]);
   }
   if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
   return (rSupply, tSupply);
}</pre>
```

Recommendation:

Check that the excluded array length is not too big.

Owner privileges

(In the period when the owner is not renounced)

Owner can exclude from the fee

```
ftrace|funcSig

function excludeFromFee(address account 1) public onlyOwner {
    _isExcludedFromFee[account 1] = true;
}

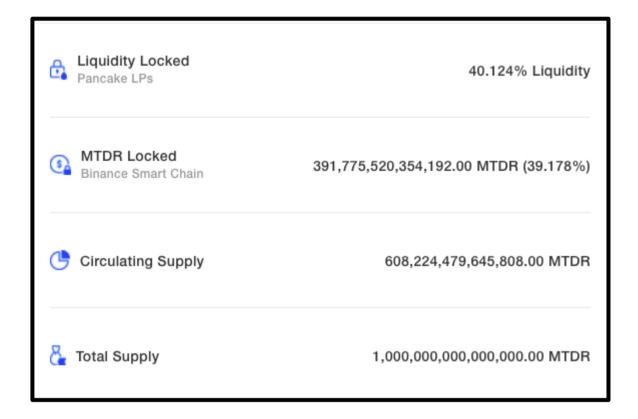
ftrace|funcSig
```

Owner can transfer the ownership

```
abstract contract Ownable is Context {
   address private _owner;
   event OwnershipTransferred(address indexed previousOwner, address indexed newOwner);
   constructor () {
       _{owner} = 0xCc55A1B3cFaCA50C403bAb8aFB650599CFdC1a38;
       emit OwnershipTransferred(address(0), _owner);
    function owner() public view virtual returns (address) {
       return _owner;
   modifier onlyOwner() {
       require(owner() == _msgSender(), "Ownable: caller is not the owner");
    function renounceOwnership() public virtual onlyOwner {
       emit OwnershipTransferred(_owner, address(0));
        _owner = address(0);
    function transferOwnership(address newOwner) public virtual onlyOwner {
       require(newOwner != address(0), "Ownable: new owner is the zero address");
       emit OwnershipTransferred(_owner, newOwner);
       _owner = newOwner;
```

Audit conclusion

While conducting the audit of the Matador Token smart contract, it was observed that there is nothing alarming with the code and the contract contains only has low severity issues.



Breakdown of token lockup

Dev & Admin Lockup 40 Trillion

Between the Dev & Admin wallets, 32 trillion tokens are locked for 1 year & 8 trillion tokens are liquid.

🔒 Marketing Lockup ----- 94 Trillion

This wallet is used to pay for advertising and partnerships of which 1 trillion is liquid & 93 trillion is locked and released on a time schedule.

Governing Wallet 20 Trillion

This wallet is used for basic operations, promotions, liquidity and any miscellaneous expenses. 5 trillion liquid, 15 trillion is locked and released on a time schedule.

Gamporary Lock 243 Trillion

The community has spoken. We locked the balance of the dev wallet temporarily until a final decision has been made. The lock is for 3 months and can be extended at any time. These tokens need to remain available for the liquidity on potential exchanges

Dev & admin team lockup details

Dan's wallet lockup

https://bscscan.com/tx/0x947066d5088421d1a8f95d3b028bf439edd235aaf765da5abe2917c21feb6bdb

❖ T. M'S wallet lockup

https://bscscan.com/tx/0x947066d5088421d1a8f95d3b028bf439edd235aaf765da5abe2917c21 feb6bdb

❖ Mike's wallet lockup

https://bscscan.com/tx/0x947066d5088421d1a8f95d3b028bf439edd235aaf765da5abe2917c21 feb6bdb

Scott's wallet lockup

https://bscscan.com/tx/0x947066d5088421d1a8f95d3b028bf439edd235aaf765da5abe2917c21 feb6bdb

nttps://b	scscan.com/tx/0x	947066d508842	1d1a8f95d3b0	28bf439edd23	5aaf765da5abe	2917c2
eb6bdb						
* C	perations walle	:				
nttps://b	scscan.com/tx/0x	947066d508842	21d1a8f95d3b0	28bf439edd23	5aaf765da5abe	e2917c2
eb6bdb						